

**BC Geological Survey
Assessment Report
38134**



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: **Geochemical Sampling & Prospecting Report on the Red Metal Ridge Property**

TOTAL COST: **\$80,319.57**

AUTHOR(S): Donald G. MacIntyre, Ph.D., P.Eng.,

SIGNATURE(S): 

STATEMENT OF WORK EVENT NUMBER(S)/DATE(S) [5726227](#) /2019/JAN/10

YEAR OF WORK: **2018**

PROPERTY NAME: **Red Metal Ridge**

CLAIM NAME(S) (on which work was done): [1057632](#), [1057633](#), [1057926](#), [1057928](#), [1057930](#), [1057931](#)

COMMODITIES SOUGHT: **Cu-Ag-Au**

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: [092L 163](#) , [092L 405](#) , [092L 357](#)

MINING DIVISION: Nanaimo
NTS / BCGS: 092L08E / 092L040

Latitude 50° 21' 07" N

Longitude 126° 08' 43" W at centre of work)

UTM 9 - 703079 E, 5581654 N

OWNER(S): **Craig A Lynes**

MAILING ADDRESS: **PO Box 131, Grindrod BC, V0E1Y0**

OPERATOR(S) [who paid for the work]: **Crest Resources Inc.**

MAILING ADDRESS: **200-551 Howe St. Vancouver, B.C., Canada, V6C 2C2**

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude.

Triassic Karmutsen Formation, comprising mainly thick massive flows with local intercalations of amygdaloidal basalt and pods of autoclastic breccias, pillowed and massive flows with thin intercalations of volcanoclastic and limy sandstones, all cut by thin dolerite/gabbro sills. Disseminated and massive chalcopyrite and Bornite, accompanied by pyrite and magnetite.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

EMPR ASS RPT [1859](#), [2379](#), [3795](#), [18255](#), *[27463](#), [27736](#), [30121](#), [32553](#), [33012](#)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other BEEP MAT	420 Ha		\$20,000.00
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil	341 soils	1057632 1057928 105790 1057633 105796 105791	\$22,000.00
Silt			
Rock	32 rock	1057632 1057928 105790 1057633 1057926 105791	\$9,000.00
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying		1057632 1057928 1057930 1057633 1057926 1057931	\$6,319.57
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)	818 Ha	1057632 1057928 105790 1057633 1057926 105791	\$17,000.00
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)	12 - 5x1m 10- 1x2m	1057632 1057928 1057931 1057633 1057926 1057931	\$6,000.00
Underground development (metres)			
Other			
TOTAL			\$80,319.57

ASSESSMENT REPORT

Red Metal Ridge Mineral Property Vancouver Island British Columbia Canada

NTS 92L/08E - BCGS 092L040

Center of Property

50° 21' 07" N Latitude 126° 08' 43" W Longitude

UTM 9 703079E, 5581654N

Nanaimo Mining Division

Prepared for:

Crest Resources Inc.

#200-551 Howe St.

Vancouver, B.C., Canada

V6C 2C2

Prepared by:

Don MacIntyre, Ph.D., P. Eng.

D.G. MacIntyre & Associates Ltd.

4129 San Miguel Close

Victoria, B.C., Canada

V8N 6G7

March 8, 2019

Date and Signature Page

Effective Date of this Report: August 21, 2018

Last Revision September 12, 2018

Date of Signing: September 12, 2018



D.G. MacIntyre, Ph.D., P.Eng.

Table of Contents

Title Page	i
Date and Signature Page	ii
Table of Contents	iii
List of Tables	iv
List of Figures	v
List of Photos	vi
1 Summary	1
2 Introduction	3
3 Reliance on other Experts	Error! Bookmark not defined.
4 Property Description and Location	6
4.1 Mineral Titles	7
4.2 Claim Ownership	7
4.3 Underlying Option Agreement	Error! Bookmark not defined.
4.4 Required Permits and Reporting of Work	Error! Bookmark not defined.
4.5 Environmental Liabilities	8
5 Accessibility, Climate, Local Resources, Infrastructure and Physiography	8
5.1 Access	8
5.2 Climate and Vegetation	8
5.3 Local Resources	9
5.4 Infrastructure	9
5.5 Physiography	10
6 History	10
6.1 1969 – Newconex Canadian Exploration Ltd.	12
6.2 1970 Armeda Copper Mines Ltd.	13
6.3 1969-1972- Sayward Explorations Ltd.	14
6.4 1988 - Germa Minerals Inc.	15
6.5 2002-2014 Mikkell Schau	16
7 Geological Setting and Mineralization	21
7.1 Regional Geology	21
7.1.1 Vancouver Group	21
7.1.2 Jurassic Plutonic Rocks	22
7.1.3 Dykes	22
7.1.4 Structure	23
7.2 Property Geology and Mineral Occurrences	26
7.2.1 Mineral Occurrences on the Property	27

7.2.2 Mineral Occurrences not on the Property	32
8 Deposit Types	33
9 Exploration	35
9.1 Soil Samples.....	35
9.2 Rock Samples	39
9.3 Beep Mat Survey	44
9.4 Prospecting and Trenching.....	50
10 Drilling	51
11 Sample Preparation, Analyses and Security	51
12 Data Verification.....	53
13 Mineral Processing and Metallurgical Testing	Error! Bookmark not defined.
14 Mineral Resource and Mineral Reserve Estimates	Error! Bookmark not defined.
15 Adjacent Properties.....	55
16 Other Relevant Data and Information.....	Error! Bookmark not defined.
17 Interpretation and Conclusions	55
18 Recommendations	56
19 References.....	57
20 Certificate of Author	59

List of Tables

Table 1. List of Mineral Titles, Red Metal Ridge Property	7
Table 2. History of Exploration. Table modified from Schau, 2013.....	10
Table 3 Summary of 1969 diamond drill holes	14
Table 4. Mineral occurrences, Red Metal Ridge Property	26
Table 5. Summary statistics for 2018 soil samples (N=341).....	36
Table 6. Rock sample descriptions and results for Cu, Mo, Ag and As	42
Table 7. Beep Mat data points with Rt values greater than 80% (strong conductors)	46
Table 8. List of hand trenches completed in 2018 by Rich River Exploration	51

Table 9. Upper and Lower limits for ICP-AES analyses (ALS ME MS41 package) 53

Table 10. Projected costs for proposed exploration program, Red Metal Ridge Property **Error! Bookmark**

List of Figures

- Figure 1. Location map, Red Metal Ridge Property, southwest British Columbia..... 4
- Figure 2. Access and infrastructure map, Red Metal Ridge Property. Map prepared by D.G. MacIntyre from government geospatial data download May 8, 2018.. 5
- Figure 3. Mineral Titles Map, Red Metal Ridge Property. Map prepared by D.G. MacIntyre from MTO geospatial data, May 8, 2018. 6
- Figure 4. Location of 1969 Newconex rock samples , Rooney 1-4 showing. Values shown are sample width in feet and % Cu. Source:Richardson, 1969..... 13
- Figure 5. Geology and approximate location of 1969 drill holes. Source: Sheppard, 1977.16
- Figure 6. Map showing Cu assay values for rock samples collected by Schau in 2006 (Schau, 2006a) and the boundary of the Red Metal Ridge Property (heavy purple line). Map produced by D.G. MacIntyre, May 2018. 19
- Figure 7. Regional geologic setting, Red Metal Ridge Property. Map created by D.G. MacIntyre, May 2018 from B.C. digital geology data (Massey et al., 2003)..... 24
- Figure 8. Property geology and location of mineral occurrences. Map created by D.G. MacIntyre, May 2018 from B.C. digital geology data (Massey et al., 2003)..... 25
- Figure 9. Proportional symbol plot showing results for Cu (ppm) in the 2018 soil samples. Map produced by D.G. MacIntyre using analytical results from ALS laboratories, May 2018..... 36
- Figure 10. Proportional symbol plot showing results for Cu (ppm) in soil samples collected near the Eclair Showing. Map produced by D.G. MacIntyre using analytical results from ALS laboratories, May 2018. 38
- Figure 11. Proportional symbol plot showing results for Cu (ppm) in soil samples collected in the Rooney Creek area. Map produced by D.G. MacIntyre using analytical results from ALS laboratories, May 2018. 39
- Figure 12. Rock sample locations and results for Cu and Ag, north central area. Map prepared by D.G. MacIntyre from ALS laboratory results and company supplied GPS sample site coordinates, May 2018. 40
- Figure 13. Rock sample locations and results for Cu and Ag, Eclair showing area. Map prepared by D.G. MacIntyre from ALS laboratory results and company supplied GPS sample site coordinates, May 2018. 41

Figure 14. Rock sample locations and results for Cu and Ag, Linzer showing area. Map prepared by D.G. MacIntyre from ALS laboratory results and company supplied GPS sample site coordinates, May 2018.	42
Figure 15. Typical use of the BM8 Beep Mat. Source: BM8 user manual.	45
Figure 16. Typical HFR, LFR and MAG values from a near surface vertical vein. Note that for a non magnetic conductor the RT value (LFR/HFR) is positive. Source: BM8 user manual.....	46
Figure 17. Beep Mat survey lines and location of strong conductors (purple squares) with Rt (Ratio) values >80%. Map produced by D.G. MacIntyre from survey data provided by Rich River Exploration, September, 2018.	49
Figure 18. Location of hand trenches, rock samples and area prospected in 2018. Map prepared by D.G. MacIntyre from data supplied by Rich River Exploration.....	50

List of Photos

Photo 1. Eclair quarry locality and 2018 sample site. Photo taken by the author, April 25, 2018.	3
Photo 2. The author examining mineralized outcrop and Rich River Exploration sample site 34507 at the Eclair showing quarry locality, Red Metal Ridge Property. Photo taken April 25, 2018 by field assistant J. MacIntyre.....	54
Photo 3. Green malachite staining in outcrop at sample site 34507, Eclair showing. This sample site returned 5.27% Cu and 24 ppm Ag. Photo taken by the author, April 25, 2018.	55

1 Summary

The Red Metal Ridge Property is located on Vancouver Island, British Columbia, Canada, approximately 74 kilometres northwest of the town of Campbell River and 12 kilometres southwest of the town of Sayward. The Property consists of six contiguous mineral titles covering an area of 1381.50 hectares. These mineral titles were acquired by electronic staking in January 2018 and are held by Craig Lynes on behalf of Rich River Exploration Ltd. (“Rich River”). Crest Resources Inc. (“Crest”) has optioned the Property from Mr. Lynes and is the operator.

Access to the Red Metal Ridge Property is via logging roads that connect to Highway 19 which cuts through the property. Historical work done on the property dates back to the late 1960’s when the area was first opened up by logging activity. Road construction exposed outcrops with visible copper mineralization. From 2003 to 2013 M. Schau did extensive work on the property including geologic mapping, prospecting and geochemistry. Despite Schau’s work, only limited diamond drilling has been done to date on the Property and as such the Property is still in the early stages of exploration.

The area covered by the Property is mainly underlain by the upper part of the Karmutsen Formation stratigraphy, comprising mainly thick massive flows with local intercalations of amygdaloidal basalt and pods of autoclastic breccias, pillowed and massive flows with thin intercalations of volcanoclastic and limey sandstones all cut by thin dolerite/gabbro sills.

The Red Metal Ridge Property covers 13 mineral showings, 11 of which are documented in the Minfile database

Work done on the Red Metal Ridge Property in 2018 included the collection of 32 rock and 341 soil geochemical samples. The survey area was also prospected for new showings and 22 hand trenches were dug as part of this program to help exposed bedrock. A Beep Mat geophysical survey was also done in March 2018 and recorded 32,682 measurements of near surface conductivity and magnetism over an extensive area. All of this work was done by Rich River Exploration on behalf of Crest and was supervised by Mr. C. Lynes. The geochemical sampling took place April 1-9, 2018. Samples collected by Rich River were shipped to ALS Minerals laboratories in North Vancouver. The purpose of the geochemical sampling done in 2017 was to characterize the grade of copper mineralization found on the property and to look for new areas of potential copper mineralization by collecting soil samples at closely spaced intervals along a network of logging roads that transect the property. The Beep Mat survey helped to identify areas were near surface sulphide bearing

rock may be located. Some of these were hand trenched. The author visited the Property on April 25, 2018.

Most of the mineralized samples were collected from veins and shear zones within amygdaloidal subaerial basaltic volcanic rocks of the Triassic Karmutsen Group. A number of samples containing high grade Cu mineralization were collected from a borrow pit at the Éclair showing with one sample returning 14.95% Cu. Soil samples collected in the vicinity of the Eclair showing were also strongly anomalous in Cu with the highest value being 1380 ppm. A number of strong conductors were also detected by the Beep Mat survey, some of which may represent new subsurface occurrences of sulphide minerals.

Following up on the work done in 2018, the author recommends a Phase 1 exploration program focussed on additional soil sampling and a coincident magnetometer survey. In particular, the extent of anomalous soils located near the Puff and Eclair showings needs to be determined. It is recommended that a soil sampling grid with line spacing of 100 metres and sample interval of 25 metres be established to cover the area that would include the Puff, Eclair and Cruller showings. Given the density of underbrush it may be necessary to cut lines in order to facilitate sampling. A magnetometer or Beep Mat survey on the same grid would also be useful. Similarly, the area north of the Linzer showing should also be covered by a soil sampling and magnetometer grid. The objective of these surveys is to try to determine the extent of subsurface mineralization beyond the current known showings, all of which are located in road cuts or quarries along logging roads. Depending on the results of the recommended soil/magnetometer surveys a Phase 2 program would involve additional work in the form of IP or EM ground geophysics.



Photo 1. Eclair quarry locality and 2018 sample site. Photo taken by the author, April 25, 2018.

2 Introduction

This assessment report has been prepared at the request of Mr. Craig Lynes, owner of the Red Metal Ridge Property and Crest Resources Inc. (“Crest” or “the Company”) the property operators. The author has been asked to review all data pertaining to the Property and to prepare a assessment report that describes historical work completed on the Property, reviews the results of recent geochemical sampling and makes recommendations for further work if warranted.

The author prepared all sections of this report unless otherwise noted in the text.

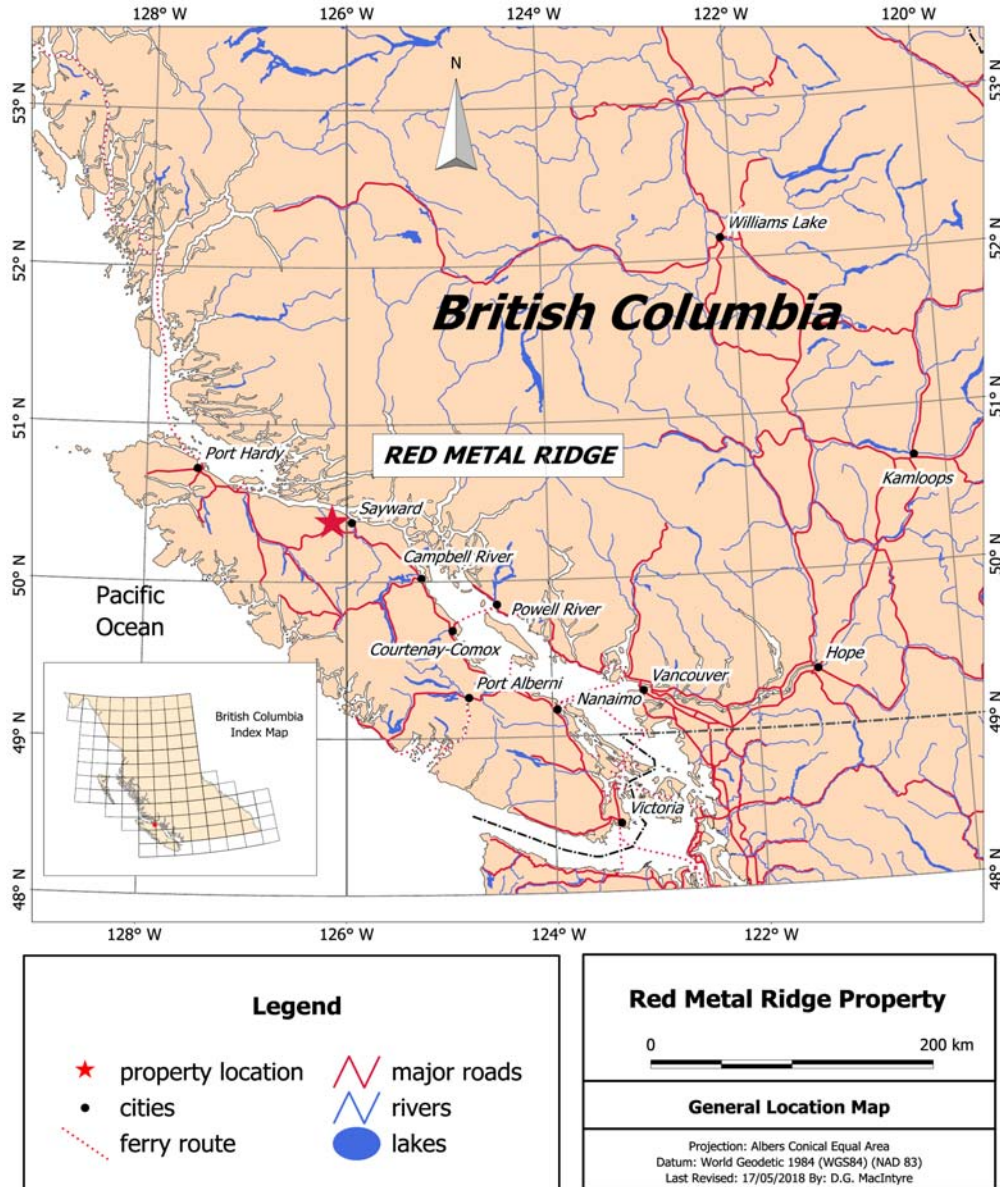


Figure 1. Location map, Red Metal Ridge Property, southwest British Columbia.

In preparing this report, the author has reviewed the geological, geophysical and geochemical reports, maps and miscellaneous papers listed in the References section. Of particular value are a number of publically available assessment reports filed by previous operators on the Red Metal Ridge Property. This information is available as free, downloadable Adobe Portable Document Format (PDF) files from the B.C. Ministry of Energy and Mines Assessment Report Indexing System (ARIS). These reports contain detailed information on the results of geological mapping, prospecting, diamond drilling and geochemical sampling conducted on the Property since its initial discovery. The author is satisfied that the information contained in these reports was collected and processed in a

professional manner following industry best practices applicable at the time, and that the historical data gives an accurate indication of the nature, style and possible economic value of known mineral occurrences on the Property.

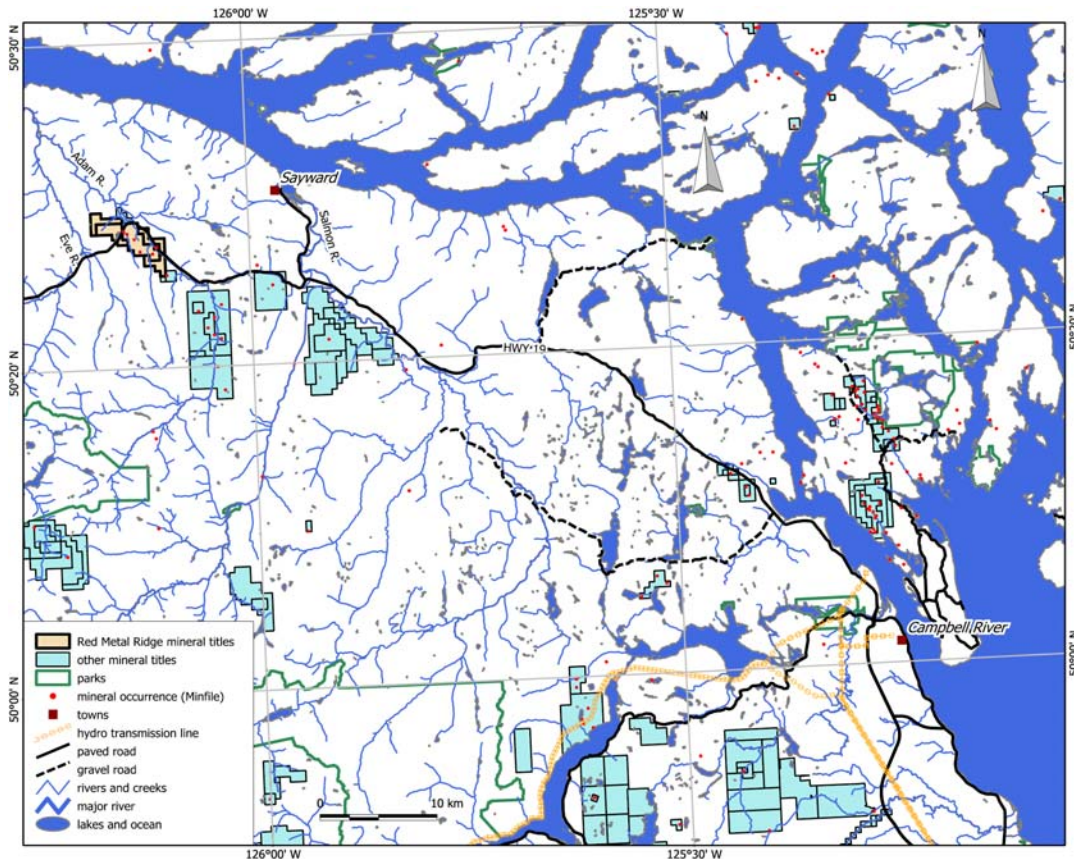


Figure 2. Access and infrastructure map, Red Metal Ridge Property. Map prepared by D.G. MacIntyre from government geospatial data download May 8, 2018..

The author visited the Red Metal Ridge Property on April 25, 2018. The purpose of this visit was to examine mineralization at the Eclair showing and to verify the presence of high grade copper mineralization in outcrop at this site.

Units of measure in this report are metric; monetary amounts referred to are in Canadian dollars.

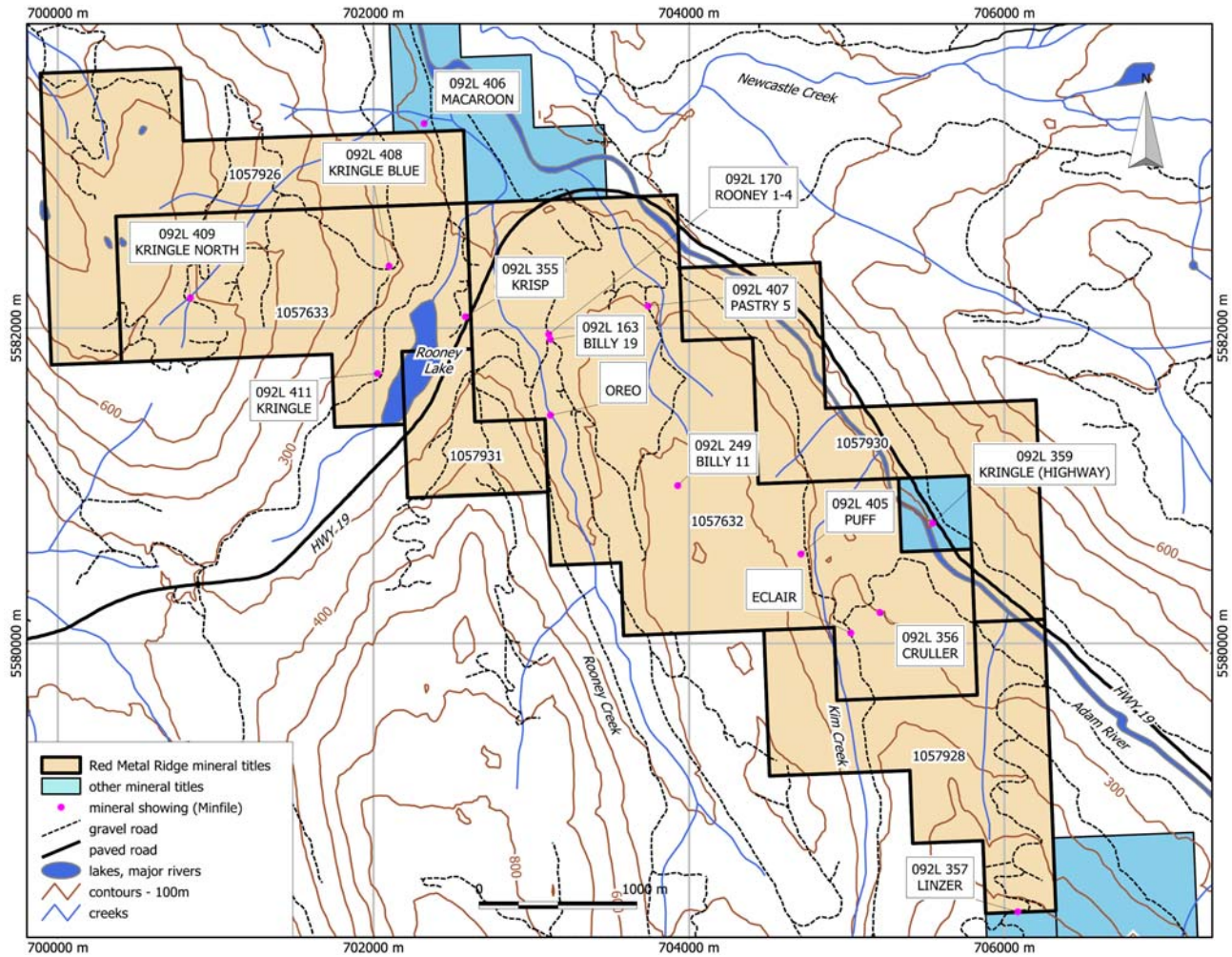


Figure 3. Mineral Titles Map, Red Metal Ridge Property. Map prepared by D.G. MacIntyre from MTO geospatial data, May 8, 2018.

3 Property Description and Location

The Red Metal Ridge Property is located on Vancouver Island, British Columbia, Canada, approximately 74 kilometres northwest of the City of Campbell River and 12 kilometres southwest of the Village of Sayward (Figures 1 and 2).

The Property covers a northwest trending ridge between the Adam and Eve Rivers (Figure 2). The center point of the Property is at 50°21'07”N Latitude 126°08'43”W Longitude. The Zone 9 NAD 83 Universal Transverse Mercator (UTM) coordinates for this point are 703079E, 5581654N (NAD83). The Property is on NTS map sheet 92L/8E and BCGS map sheet 092L40.

Table 1. List of Mineral Titles, Red Metal Ridge Property

Title Number	Claim Name	Owner	Issue Date	Good To Date	Area (ha)
1057632	RED METAL RIDGE	116233 (100%)	2018/JAN/12	2019/JAN/12	515.50
1057633	RED METAL - WEST RIDGE	116233 (100%)	2018/JAN/12	2019/JAN/12	226.77
1057926	RED METAL - NORTH RIDGE	116233 (100%)	2018/JAN/25	2019/JAN/25	206.13
1057928	RED METAL - SOUTH RIDGE	116233 (100%)	2018/JAN/25	2019/JAN/25	185.65
1057930	RED METAL - EAST RIDGE	116233 (100%)	2018/JAN/25	2019/JAN/25	185.58
1057931	RED METAL - SW RIDGE	116233 (100%)	2018/JAN/25	2019/JAN/25	61.86
					1381.48

3.1 Mineral Titles

The Red Metal Ridge Property consists of six (6) contiguous mineral titles that are located within the Nanaimo Mining Division (Table 1). The area covered by these titles is shown in Figure 3 and is calculated to be 1381.48 hectares in total. The map shown in Figure 3 was generated by the author from geospatial data downloaded from the Government of BC, GeoBC website on May 8, 2018. These spatial layers are the same as those used by the Mineral-Titles-Online (MTO) electronic staking system managed by the Mineral Titles Branch of the B.C. Ministry of Energy, Mines and Petroleum Resources and are updated on a daily basis. The MTO system is used to locate and record mineral titles in British Columbia. This system uses a grid cell selection system that was introduced in 2005. Title boundaries are based on lines of latitude and longitude. There is no requirement to mark claim boundaries on the ground as these can be determined with reasonable accuracy using a GPS. The Red Metal Ridge claims have not been surveyed.

Mineral Title details listed in Table 1 were downloaded from the MTO web site and are current as of May 23, 2018. All mineral titles are in the Nanaimo Mining Division.

3.2 Claim Ownership

Information posted on the MTO website indicates that all of the claims listed in Table 1 are owned 100% by Craig A. Lynes. Mr. Lynes holds these claims on behalf of Rich River Exploration Ltd. (“Rich River”). Crest Resources Inc. (“Crest”) has optioned the Property from Rich River and is the operator.

Maps generated by the MTO system show that the Red Metal Ridge mineral titles overlap Land Act Survey Parcels District Lots 222 and 456 established in 1905 and 1909 respectively. The author is not aware of any issues related to the overlap with these lots that would have a negative impact on any future exploration and development of the Property.

On January 10, 2019, Mr. Lynes filed a Statement of Work claiming \$80,170.55 in exploration expenditures for the work done in 2018 (MTO Event 5726227). This assessment report documents the results of this work as required by the regulations.

3.3 Environmental Liabilities

There has not been any mining or other exploration related physical disturbances on the Red Metal Ridge Property to date. Roads built for logging activities are not the responsibility of the mineral title holder. The author is not aware of any environmental issues or liabilities related to historical exploration or mining activities that would have an impact on future exploration of the Property.

4 Accessibility, Climate, Local Resources, Infrastructure and Physiography

4.1 Access

As shown in Figure 3 a number of logging roads connect with paved Highway 19 which passes through the property. These logging roads are still active and in good condition providing easy access to the property. The main access road is the Kim Creek Forest Service road (“FSR”) which connects to Highway 19 at around 18.7 kilometres west from Sayward Junction. The junction with the Kim Creek FSR is located 440 metres past the bridge that crosses the Adam River on Highway 19. The Eclair showing is located 3.5 kilometres southeast along the Kim Creek FSR

4.2 Climate and Vegetation

The Property is located along the eastern side of the Vancouver Island Mountain Range. Rainfall on this side of the mountains, though less than on the Pacific Coast side, can be considerable. Severe winter storms can result in back country roads being blocked and washed out. Most heavy rainfall occurs between October and April with November being the wettest month with nearly 250 mm average monthly rainfall at Sayward. Mean daily maximum temperatures are highest in July and August averaging 25° Celsius. Mean daily minimum temperatures in December through February are typically 1 ° Celsius. Snowfall is variable with some heavy snowfall associated with periods of Arctic outflow from the interior of B.C. during the winter months.

The Property is in the Coastal Western Hemlock biogeoclimatic zone which is more commonly known as the Temperate Rainforest of B.C. The forests within this zone such as those in the Adam River drainage are highly productive and are dominated by western

hemlock and pacific silver fir tree species. There are also varying amounts of western red cedar, yellow cedar and Pacific yew. The hemlock forests have been logged, sometimes twice, and a wide network of old alder covered roads mark the earlier logging efforts. Old overgrown road metal quarries are located along some of these roads. Much of the area has been replanted. Off road, the landscape is rugged and the forest litter deep and difficult to traverse.

4.3 Local Resources

The nearest population center and place to acquire supplies and services for mineral exploration and development is the City of Campbell River (pop. 35,000 in 2016) which is located 92.2 kilometres southeast from the junction with the Kim Creek FSR on Highway 19. This city is tourist oriented but also provides support for the local logging industry. Campbell River has all the necessary amenities to support resource development. It is the nearest location of police, hospitals, groceries, fuel, helicopter services, hardware and other service and supply businesses. There are diamond drilling companies located in Campbell River but the nearest analytical laboratories are located in Vancouver.

The Property is within Tree Farm License (TFL) 39, Block 2 - Weyerhaeuser's West Island Timberlands (WI), which is managed by the Weyerhaeuser B.C. Coastal Group. This license has been active since about 1910. The Adam River drainage area is an active logging area with logs being transported to Sayward and shipped down the coast on log booms. As a result there are heavy equipment and operators available for hire in the area. Most of these operators live in Sayward or Campbell River.

4.4 Infrastructure

Highway 19 which transects the Property is the main transportation corridor between Campbell River and Port Hardy on Vancouver Island (Figures 2 and 3). As mentioned above a network of logging roads connects to this highway providing good access to most of the Property.

The nearest BC Hydro transmission line is located at Campbell River (Figure 2) and services a pulp mill operation just north of the city.

Kelsey Bay at Sayward was once used as a major deep water port and could provide a suitable location for a shipping terminal for any future mining operation.

4.5 Physiography

The Property lies within the Vancouver Island Mountains physiographic region and has a moderately rugged topography with a lower elevation of 180 metres along the Adam River Valley rising to a high point of about 800 metres in the northwest corner of the property. The property covers the northeast facing slope of a northwest trending ridge that separates the Adam and Eve Rivers (Figure 3). The northwest flowing Adam River is joined by north to northeast flowing creeks such as Kim Creek and Rooney Creek that cut through earlier glacial fluvial deposits that cover most of the Property. Outcrop on the Property is largely restricted to road cuts and borrow pits along major logging roads.

5 History

Copper mineralization in the form of chalcopyrite-bornite-malachite-azurite hosted by Triassic age Karmutsen basalt flows was first discovered in the Adams River area in the late 1960's by prospectors examining road cuts along newly built logging roads. The history of work done in the area now covered by the Red Metal Ridge Property is summarized in Table 2. The following is a description of the work done from 1969 to 2017 as reported in the assessment reports listed in Table 2.

Table 2. History of Exploration. Table modified from Schau, 2013

Company	Year	Type of work	Assessment Report	Results
Newconex Canadian Exploration	1969	16 chip samples for copper, 503 soil/silt samples for copper	1859	Located copper showings near Rooney Lake, best 0.23% Cu/20', grid values low. (092L 170)
Armeda Copper	1970	Magnetometer work/geochemical-soil sampling	2379	Possible conjoint anomaly NW of Rooney Lake
Sayward Explorations Ltd	1972	Prospecting, verified previous results, reported on 6 diamond drill holes (1748') in area south of Rooney Lake	3795	Mineral showings 092L163, 092L249 added to Minfile database.

Company	Year	Type of work	Assessment Report	Results
Germa Minerals	1989	Geology, soil sampling, VLF,	18255	Work east of Rooney Lake, minor geochemical anomalies
Schau	2002	Geology, Geochemistry, and petrophysics	26930	Local high grade skarn at contact and mineralized dykes (Kringle)
Schau	2002	Geology, Geochemistry, and petrophysics	27070	Dyke breccia and shear zone in Puff quarry
Schau	2004	Geology, Geochemistry, and petrophysics	27463	Three new showings: Pastry, Macaroon, and Oreo
Schau	2005	Prospector's report	27736	Krisp copper showing along highway
Schau	2006	Prospector's report/ Kringle north	28328	New showings
Schau	2007	Prospector's report/ Kringle center	28747	New high grade showings
Schau	2007	Petrography, magnetic susceptibility and density studies (Kringle south)	28927	Petrological studies, and new showings. Details of Veins and alkalic alterations
Schau	2008	Alteration studies (Kringle north)	30121	Petrological studies and new showings
Schau	2009	Geology (dykes) in northern Kringle	31039	Petrological studies and new showings
Schau	2010	Geochemical and biogeochemical studies at Klejne	31516	Assessed viability of biogeochemical methods in this environment
Schau	2010	Assays and lithochemistry, Kim Creek, Kringle Consolidated Claim Group	31856	New copper showings; as veins and disseminations in basalt

Company	Year	Type of work	Assessment Report	Results
Schau	2011	Petrography, lithochemistry, assays and geochemistry on Kringle Consolidated Claim Group	32553	New copper showing, gold bearing vein
Schau	2012	Petrography, lithochemistry and magnetic studies on Kringle Consolidated Group	33012	Magnetic susceptibility and alteration and relation to mineralization
Schau	2013	Petrography, lithochemistry and magnetic studies on Kringle Consolidated Group	34183	Petrologic studies and new showings

5.1 1969 – Newconex Canadian Exploration Ltd.

In April and May 1969 Newconex Canadian Exploration Ltd. completed a soil sampling grid covering the area between Rooney Lake and the east fork of Rooney Creek (Richardson, 1969; Assessment Report No. 1859). The grid was centered on low grade copper mineralization exposed in road cuts along a new logging road. The report describes the occurrence of chalcopyrite, bornite and minor pyrite with associated chlorite and epidote alteration hosted by massive amygdaloidal basalt flows of the Karmutsen Formation (Minfile Showing 092L 170 - Rooney 1-4). A total of 503 soil and silt and 16 rock chip samples were collected and analyzed. Overall, the results were low with only weak soil anomalies detected in the vicinity of the mineralized outcrop exposed in the road cut. The best results as shown on a sketch map were for two adjacent chip samples that returned values of 0.23% and 0.14% Cu respectively over a distance of approximately 9 metres. Very little information about these samples is included in the assessment report.

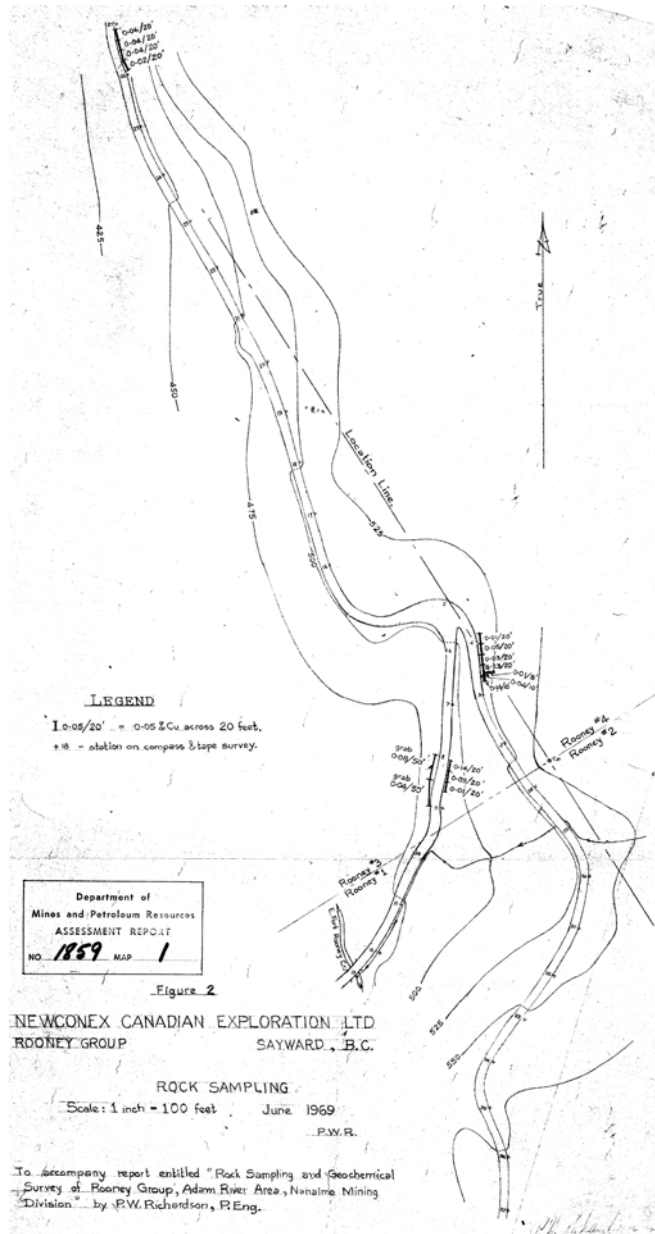


Figure 4. Location of 1969 Newconex rock samples , Rooney 1-4 showing. Values shown are sample width in feet and % Cu. Source:Richardson, 1969.

5.2 1970 Armeda Copper Mines Ltd.

In February and March 1970, Armeda Copper Mines Ltd. completed a magnetometer and soil sampling survey covering the areas northeast and southeast of Rooney Lake (Wilmot, 1970; Assessment Report 2379). The northeast area was surveyed using a line spacing of 1500 ft. (457 m) with magnetometer readings and soil samples collected at 500 ft. (152 m) intervals along the lines. A more detailed survey with line spacing of 200 ft. (61 m.) and sampling interval of 100 ft (30.5 m.) was done southwest of Rooney Lake. Magnetometer readings taken near know surface showings did not return anomalous values. It was

concluded that variations in the magnetic response were most likely due to underlying bedrock than any contained mineralization (Wilmot, 1970). Soil samples returning greater than 50 ppm Cu were deemed anomalous and are plotted on the magnetometer map. A number of widely spaced single sample anomalies are shown. There was no obvious correlation with the magnetometer values. There are no analytical certificates included with the report and only minimal information on the sampling procedures and analytical techniques used in the survey.

Table 3 Summary of 1969 diamond drill holes

Hole	Azimuth	Inclination	Length (m.)	Mineralized intervals (m.)
1	30	-45	53.3	13.6-18.6; 21.6-22.2
2	60	-45	68.9	17-18.6 (0.41 % Cu)
3	120	-45	106.7	3.0-35.6
4	255	-40	70.1	17.4-22.5; 25.3-28.0
5	0	-55	93.6	15.2-36.6
6	125	-40	140.2	49.4-53.0;76.2-77.7;85.0-86.9;137.5-140.2

5.3 1969-1972- Sayward Explorations Ltd.

A large part of the Property southeast of Rooney Lake was mapped and sampled by E.P. Sheppard in 1972 (Figure 4). This work located a number of new showings. The results of the 1972 mapping and sampling and diamond drilling done earlier in 1969 were included in a 1977 assessment report (No. 3795) prepared for Sayward Explorations Ltd. (Sheppard, 1977). This report also includes drill hole sections for the AX sized diamond drill holes completed in 1969. The location of these holes was plotted by hand on the claim map accompanying the assessment report and these locations were used by the author to plot the locations on Figure 5. It should be noted that these locations are very approximate. Using the location descriptions as a guide the drill holes were replotted based on the reported distance and direction between holes (Sheppard,1977). Following this approach all holes plot on the logging roads shown on the geology map (Figure 5) which is most likely where they were located in 1969. It was also concluded that drill holes 1, 2 and 5 targeted the Rooney 1-4 showing (Figure 5). This suggests the Rooney 1-4 and Billy 19 showings are probably the same.

Table 3 is a summary of drill hole information contained in the 1977 report. The report also mentions 4 rock chip samples that were collected from outcrop exposed on the logging roads, one of which returned 0.12% Cu. The samples reportedly contain disseminated chalcopyrite with occasional blebs and stringers of chalcocite and bornite (Sheppard, 1977).

There is no information to indicate the location of these samples but the author suspects they were from the Rooney 1-4 showing.

Magnetometer readings were also taken along the road traverses and plotted on the accompanying geology map (Figure 5). Soil samples were collected on a northwest trending claim line over a distance of 7500 feet (2286 metres). The results for these samples were also plotted on the geology map that accompanied the assessment report (Figure 4).

No tables of results or analytical certificates are included in the report and the scanned maps in the PDF report downloaded from the ARIS website are not at a high enough resolution to read the values for the soil sample sites and magnetometer stations that have been plotted. The report states that there were a number of anomalous soil samples but the magnetic response was relatively flat. The report is the basis for establishing two Minfile occurrences – 092L 163 Billy 19 presumably for drill holes 1, 2 and 5 and 092L 249 Billy 11 presumably for drill hole 6. However, as mentioned above, Billy 19 is probably the same showing as the Rooney 1-4. If this is in fact the case then the location coordinates for this showing as reported in the Minfile database are not correct.

5.4 1988 - Germa Minerals Inc.

In 1988 Germa Minerals Inc. contracted Cossack Gold Mining Corp. to further delineate copper soil anomalies detected by Sayward Exploration Co. in 1972 (Peters, 1988; Assessment Report 18255). A total of 187 soil samples were taken along grid lines located east of Rooney Lake and rock samples were collected from pits and road cuts in the area. The gridded area measured 700 metres by 1100 metres with north-south lines at 100 metre spacing and a sampling interval of 50 metres. Analytical work was done by Chemex in Vancouver and copies of the assay certificates were included with the assessment report. Several soil samples returned anomalous Au and Cu values defining roughly linear northwest trending anomalies. A VLF-EM survey was also conducted and resulted in the delineation of several conductors. Peters (1988) concluded that there was a good correlation between gold, copper, zinc and lead concentrations in soils and the VLF-EM conductors throughout the survey grid. The highest Au value returned for the soil samples was 852 ppb and the highest Cu value in rock samples was 2280 ppm.

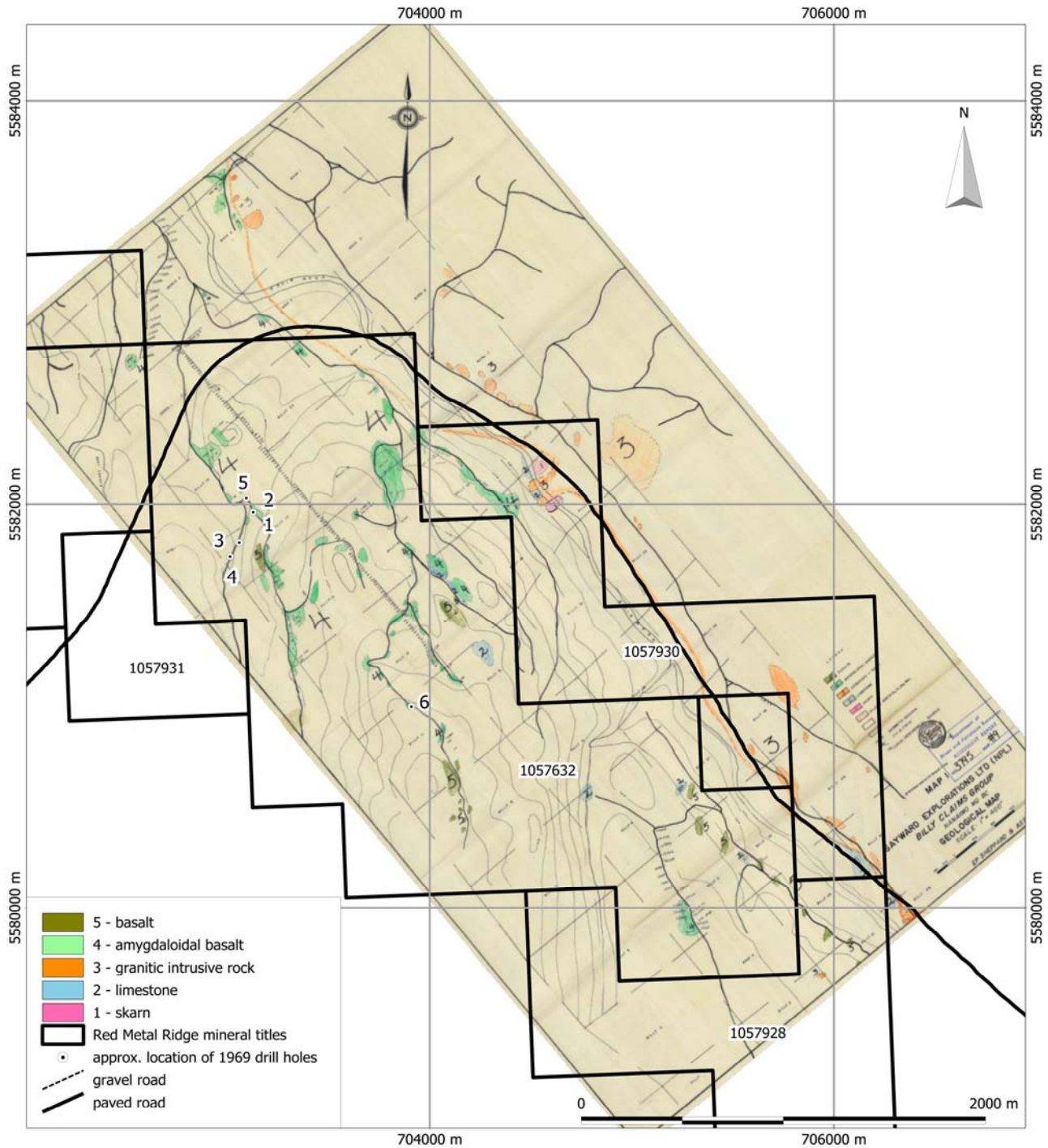


Figure 5. Geology and approximate location of 1969 drill holes. Source: Sheppard, 1977.

5.5 2002-2014 Mikkel Schau

Mikkel Schau P.Geo. was issued Prospectors Assistance Program (“PAP”) grants in 2000 and 2001. With this support he was able to stake claims and explore the Adam River area.

Work by Schau in 2002 focussed on the contact zone area between a large granitic intrusion and Triassic age limestone and basalt that occurs along the northeast side of the Adam River (Schau 2002, Assessment Report 26930). As a result Schau discovered the Kringle showing along Highway 19 (Minfile No. 092L 359). Outcrops along a 2.5 kilometres stretch of Highway 19 and adjoining logging roads were mapped and a total of 35 rock samples were collected for assay. These samples were analyzed for 32 elements including Au, Pt and Pd. The best result was for a well mineralized garnet skarn sample that returned 66,405 ppm Cu and 68.6 ppm Ag. Five additional samples were analysed for total whole rock composition and trace elements. Twelve samples were submitted for petrography and 27 samples were used for density analyses. The magnetic susceptibility was determined at 45 sample locations.

In addition to work done around the Kringle showing, Schau also did prospecting and sampling on his Puff claim group in October and November 2002 (Schau, 2003; Assessment Report 27070). Schau's work on the Puff claims focussed on shear zones and Cu bearing veins in brecciated Karmutsen basalts and a felsite dyke exposed in a quarry locality (Puff showing, Minfile No. 092L 405). A total of 20 samples were collected from mineralized shear zones exposed in the quarry. Samples were analyzed by ACME Labs for 30 elements plus Pt, Pd and Au. Six samples were also submitted for whole rock and trace element analyses. Petrographic analyses were also done on 13 samples and density determinations on 2 samples. The magnetic susceptibility was determined for 18 of the samples analyzed. The best assay value was for a grab sample that returned 6.06% Cu, 34.9 ppm Ag, 198 ppb Au and 97 ppb Pd (Schau, 2003). Schau concluded that supergene enrichment was responsible for the high Cu value in this sample. A chip sample across 2.2 metres of a mineralized shear zone returned a more modest 0.95% Cu, 4.62 ppm Ag, 20 ppb Au and 46 ppb Pd.

In 2003, Schau continued working in the area around the Puff showing utilizing a network of logging roads for access (Schau, 2003; Assessment Report 27,463). A total of 38 samples were analyzed by ACME Labs for 30 elements plus Pt, Pd and Au (fire assay). An additional 9 samples were submitted for whole rock and trace element analyses. A sample from the Macaroon showing returned 2.4% Cu, 21.7 ppm Ag and 85 ppb Pd. A rock sample from the Oreo showing returned 1.26% Cu and 6.0 ppm Ag. The Oreo showing is very close to the location of the Rooney 1-4 and Billy 19 showings and has not been assigned a separate Minfile number. The showings are in a rock quarry on the west side of the east arm of Rooney Creek. A talus boulder at the Pastry showing yielded 4.8% Cu and 14.6 ppm Ag. Similar high grade mineralization has not been located in outcrop. The best sample from outcrop at the Pastry returned 0.9% Cu and 3.3 ppm Ag (Schau, 2003).

In 2005, Schau did 2.5 days prospecting and sampling the Krisp showing located on either side of Highway 19 just east of Rooney Lake (Schau, 2005; Assessment Report 27,736). A total of 18 rocks samples were collected and assayed by Acme Labs. An additional 7 samples were collected for whole rock and trace element analyses. A grab sample of dyke material containing malachite, epidote veining and blebs of sulphides returned 6.33% Cu and 11.4 ppm Ag (Schau, 2005).

In 2005, Schau spent 3 days sampling and prospecting the northern portion of his Kringle Consolidated group of claims (Schau, 2006; Assessment Report 28,328). This work involved collecting 13 rock samples from outcrops accessible by logging roads in the area north of Rooney Lake and Highway 19. Four samples were also collected from the quarry at the Puff showing and 6 samples were collected from outcrop along Highway 19 east of the Adam River. The best results were for the samples from the quarry one of which returned 46,540 ppm Cu and 29.7 ppm Ag. Rock samples were submitted to Acme Labs for analyses. Magnetic susceptibility readings were taken at 6 stations.

In July 2006 Schau spent one day collecting 51 rocks samples from outcrops along logging roads in the central part of his Kringle Consolidated claim group (Schau, 2006a; Assessment Report 28,747). The area sampled covers the southern portion of the Red Metal Ridge Property. Fourteen of the samples collected contained significant copper mineralization. Some of these localities appear to have been new discoveries. The highest values were for two sample of malachite stained basalt that were collected from the same locality. These samples (K072A1 and K072A2) returned 221,760 ppm Cu and 49.1 ppm Ag and 159,060 ppm Cu and 39.2 ppm Ag respectively (Schau, 2006a). This showing later became the Linzer Minfile showing (092L 357) which, based on the coordinates given by Schau (2006a), would plot on the southern most boundary of mineral title 1057928 of the Red Metal Ridge Property and not where it plots using the coordinates from the Minfile database. Two more samples from a different locality 252 metres to the northeast returned Cu values of 49,100 ppm and 32,300 ppm respectively. This locality is described as malachite stained basalt with local specks of bornite. The location of samples and associated Cu values for the samples collected by Schau in 2006 relative to the current Property boundary (heavy purple line) is shown in Figure 6.

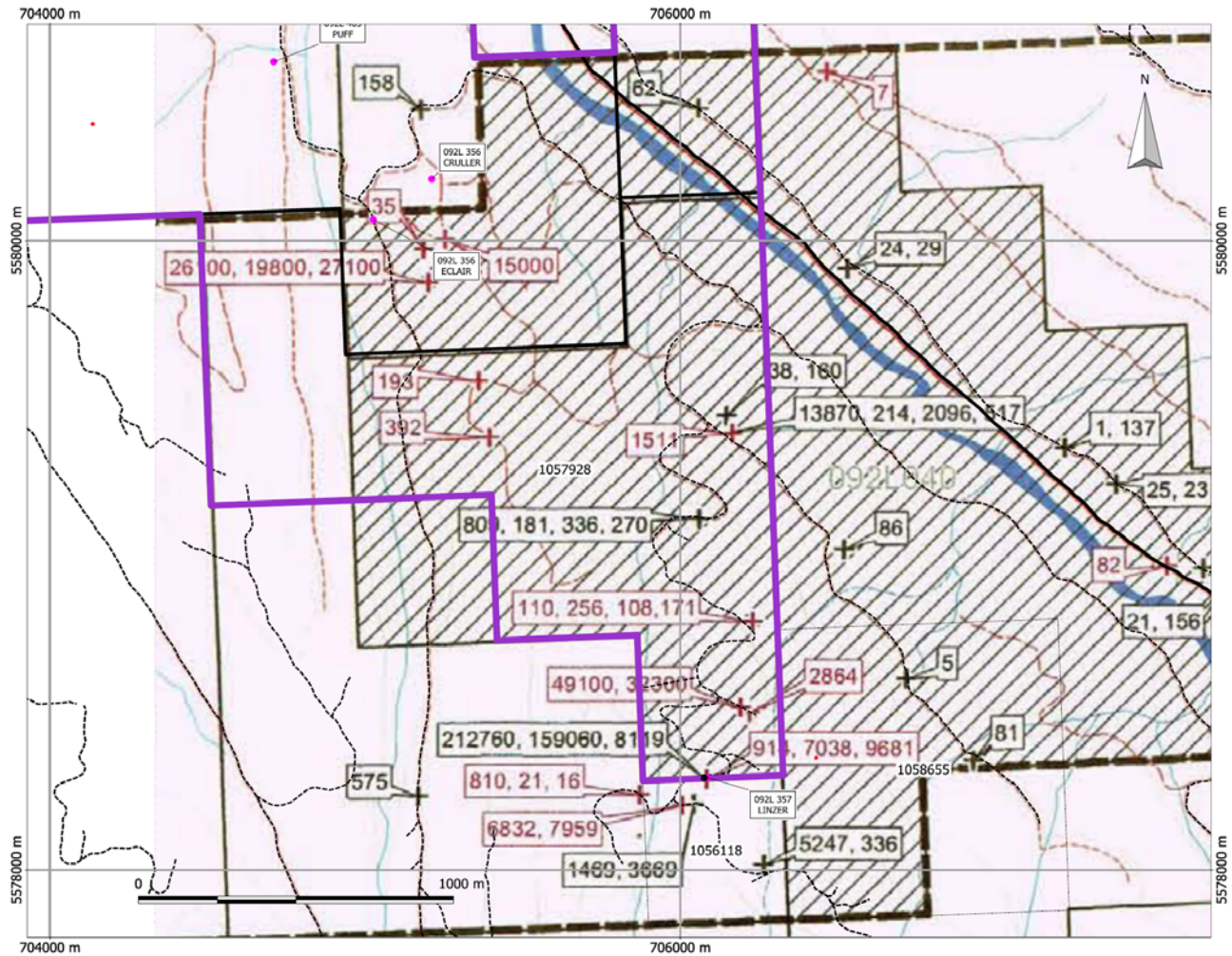


Figure 6. Map showing Cu assay values for rock samples collected by Schau in 2006 (Schau, 2006a) and the boundary of the Red Metal Ridge Property (heavy purple line). Map produced by D.G. MacIntyre, May 2018.

In October 2006 Schau did an additional 4 days of prospecting, collecting rock samples for assay (17 samples) and whole rock/trace element analyses (21 samples). In addition magnetic susceptibility (181 stations) and density determinations (136 stations) were done. A petrographic study using 120 thin sections was also completed for the entire claim block. A number of new showings with low grade but anomalous Cu values were identified. A compilation of work done on the property since 2005 was included in the assessment report (Schau, 2007; Assessment Report 28,927).

From July 2008 to May 2009, M. Schau spent 9 days prospecting the area north of Rooney Lake where new roads and cut blocks had been established. He also revisited outcrops along a stretch of Highway 19 northeast of the Adam River (Schau, 2009; Assessment Report 31039) where dykes cut through Quatsino and Parsons Bay limestones. A total of 60

samples, mostly of dyke material, were assayed by Acme Labs. In addition 3 samples were submitted for whole rock and trace element analyses. Petrographic analyses were done on 22 rock specimens. Several new mineralized localities were found that returned weak to moderately anomalous Cu values.

In 2010, M. Schau spent a total of 7 days working in the Kim Creek area (Schau, 2010; Assessment Report 31856). This work was focussed on the Cruller and Linzer showings. A total of 46 rock samples were collected and 5 samples were submitted for petrographic analyses. A magnetic susceptibility survey was also done with 315 determinations made at 48 stations. One sample from the Cruller contact shear zone assayed 2.83% Cu and 5 samples of mineralized breccia and basalt from the Linzer showing returned over 1.5% Cu with the best value 5.77% Cu. This sample was also anomalous in Au at 932 ppb (Schau, 2010). The mineralization at the Linzer showing is described as bornite dissemination in a “horizon” in altered basalt that can be traced for 100 m. along the road.

Between October 2010 and August 2011, M. Schau spent 15 days sampling showings on the Kringle-Consolidated property (Schau, 2011; Assessment Report 32,553). During this time period 9 soil samples, 44 silt samples and 119 rock samples were collected. The rock samples were analyzed by ICP-MS for 37 elements and by Fire Assay for Au, Pt and Pd. An additional 18 samples were submitted for whole rock and trace element analyzes. A petrographic study using 99 thin sections was also done. The report contains a list of the 16 best results with 9 samples from the Linzer showing (2.02% -> 25% Cu), 6 samples from the newly discovered Eclair showing (2.09% - 6.09% Cu) and 1 sample from the Puff showing (5.07% Cu). Samples of gossanous actinolite-pyrite +/- magnetite vein from the Oreo showing were also assayed and returned Au values between 1577 and 6582 ppb.

A report describing the results of magnetic susceptibility measurements and follow up laboratory work not reported in 2011 was filed for assessment credit in 2012 (Schau, 2012; Assessment Report 33,012). The analytical work was mainly determination of FeO for whole rock samples. Infrared absorption and potash feldspar staining was also done on selected alteration suites. Four new thin sections were also described.

In August 2012 M. Schau, spent 4 days on the Kringle-Consolidated Property. The focus of this work was the Linzer showing and showings further southeast of the current Red Metal Ridge Property. A total of 33 rock samples were collected and submitted for analyzes (Schau 2013; Assessment Report 34183), 12 of which were from the Linzer showing area. Of these, two samples returned Cu values >10,000 ppm. These samples also had anomalous Au values of 378 and 436 ppb respectively. Magnetic susceptibility readings were taken at

61 sites and 10 samples were submitted for density determinations. Petrographic descriptions were done for 28 thin sections by Vancouver Petrographics Laboratory.

6 Geological Setting and Mineralization

The following description of regional geologic units is modified from Schau (2010).

6.1 Regional Geology

6.1.1 Vancouver Group

The Vancouver Group, which includes the Karmutsen, Quatsino, and Parsons Bay Formations, underlies much of the area Adam River valley (Figure 7). The Karmutsen Formation is the most extensive and is primarily comprised of low potash tholeiite basalt of remarkably consistent structure and thickness that constitutes the lower third of the Vancouver Group. Regionally, the lower 2500 to 3000 m of the Karmutsen consists of closely packed pillow lava grading upward into magnesian pillow basalts. The next 600 to 1000 metres consist of pillow breccia and aquagene tuff, typically with unsorted beds 0.5 to 2 metres, thick. The upper 3000 metres is composed of meter to decimetre thick, both amygdaloidal and massive basalt flows. In the upper third of the unit, thin discontinuous bioclastic, micritic, cherty or tuffaceous limestone is locally overlain by closely packed pillows, which are in turn overlain by pillow breccia, and then thick massive flows.

The structure of the unit is marked by gently folded and locally severely faulted areas. The folding is part of a regional shallowly north plunging antiform. The distribution of units also suggest east trending folds of small amplitudes and well developed linears trend north and north westerly directions as well as easterly directions and separate large panels of gently dipping lavas. In the Adams River area units appear to be dipping gently to the northeast.

The volcanic rocks have been regionally metamorphosed to upper zeolite facies. Albitized feldspars, amygdules and veins of pumpellyite, prehnite, epidote, calcite, and chlorite are widely noted. Adjacent to contacts with later intrusives, higher grade amphibolite bearing assemblages are locally developed.

The Quatsino Formation is a thin ribbon traversing the country in a north-northwest direction, to the northeast of the Karmutsen Formation (Figure 7). Regionally, it is seen to stratigraphically overlie the Karmutsen, and is known to vary in thickness from as much as 500 metres to thinner than 150 metres. In the Adam River area it is a distinct, easily recognizable unit, but the thickness is difficult to determine as it has been ductilely deformed near the contact with the granodiorite. The Adam River follows part of its outcrop

pattern. The formation consists of grey limestone beds. Where undeformed it is coarsely bioclastic, light grey, indistinctly bedded and non fissile. Where deformed near plutons it becomes a light grey, finely recrystallized limestone. Fossils indicate that the Quatsino Formation is upper Triassic in age (Muller et al, 1974, Nixon, 2007).

The Parsons Bay Formation is considered to overlie the Quatsino Formation. According to Carlisle (1972), it is characterized by thinly laminated alternating fissile and non fissile black carbonaceous limestone with extremely fine grained siliceous matrix. Small slivers have been recognized along the contact with the pluton, mainly northwest of Keta Lake, but it seems to disappear to the northwest. The Adam Lake Pluton cuts through the unit to impinge directly on the Quatsino limestone further to the northwest. Schau (2010) suggests that some of the silty reaction skarns intercalated with black limestone noted in the Adam River area represent some thin relict lenses of Parsons Bay Formation recently recognized along the western flank of the Adam River Batholith.

6.1.2 Jurassic Plutonic Rocks

Jurassic granodiorite to diorite underlies the area to the east-northeast of the Adam River. It has been called the Adam River Batholith (Carson, 1973, Muller, et al, 1974) and is part of the Island Plutonic Suite. It is about 4 kilometres wide and trends northwesterly in excess of 10 kilometres (Figure 7). It consists mainly of granodiorite to quartz diorite phase of a large mesozonal intrusive body. K-Ar dates of 160 Ma. on hornblende and 155 Ma. on biotite from a quartz diorite of this batholith confirm the mid Jurassic age and suggest it is contemporaneously with the deposition of the andesitic volcanics of the Bonanza Group. Rocks studied by Schau (2010) are described as mainly medium to fine grained biotite hornblende granodiorite and quartz diorite with a locally elevated content of mafic minerals including magnetite. The high concentration of magnetite in these I-type intrusions produces regional positive aeromagnetic anomalies.

Contacts with the granodiorite are known to be hornfelsed for short distances, with local skarnification near and in limestone beds. Locally on Highway 19, outcrops of limestone have been skarnified and are well exposed. Bedding in the limestone is steep and complex at or near the contact. At contacts volcanic rock inclusions are transformed into dioritic inclusions and limestones become skarn and marble rafts.

6.1.3 Dykes

Schau (2010) suggests that based on very preliminary field evidence, supported in part by prior observations made by Carlisle (1972) in adjacent areas, there appears to be at least

three sets of granitoid dykes in the area. The dykes observed so far are near the intrusive contact of the main Adam River pluton.

The oldest dykes are feldspar porphyry. Locally these are folded into tight folds and may predate the main Adam River plutonic mass. There is also a later group of dykes that are deformed, locally brecciated, and argillically altered and mineralized. The youngest dykes are “fresh” feldspar and hornblende porphyries with planar or irregular contacts. In the Rooney Lake area, late basaltic dykes (diabase) cut metamorphosed basalts and are metamorphosed themselves.

6.1.4 Structure

The Red Metal Ridge Property lies within the shallow east north east dipping homocline of Triassic rocks and the Adam River Batholith, called by Muller et al. (1974), the White River Block. This block is bounded to the west by the north to northwest trending Eve River fault. To the north the Johnson Strait Fault terminates the block. The eastern and southern borders are also faults. The faults on the Property are sub parallel to the border faults, or are second or third order subsidiaries of it. Schau (2010) suggests these faults contain a large normal component but a dextral transverse component is often mentioned in reports and shown in outcrop as sub horizontal slickensides. Dip directions of the massive basalt flows within each fault panel differ somewhat suggesting some jostling of fault blocks. The majority of dips of flow tops and intercalated bedding were observable are more northerly than easterly. Schau (2010) suggests that the area is more structurally complex than implied by a simple homocline, since the regional structure predicts that the youngest rocks should be to the north. Instead, the Parsons Bay Formation is found near Keta Lake, or far southeast of where it would be expected in a simpler tilted stratigraphic succession.

Schau (2010) concludes that a fault system exists along the Adam River and post dates the pluton, probably with strike slip motion. This fault system is probably long lived, since it seems that it also predates the pluton as well with a sense of west side up. West of the pluton, the younging in the Karmutsen is to the east northeast. On the east side of the Adam River pluton the younging is to the south, implying the pluton cuts an east west trending syncline (Figure 7).

Schau (2010) suggests north trending excised valleys probably follow secondary fault structures. One such example might be Kim Creek. As noted above, the intrusive rocks may have been emplaced along prior faults in the vicinity of the current course of the Adam River. These are faults that are parallel to the length of the Cordillera, typically bounding crustal blocks with different tectonic and geologic histories. This type of faulting can play a

large role in localizing some mineral deposits. It is likely that these faults stayed active during later transverse faulting episodes.

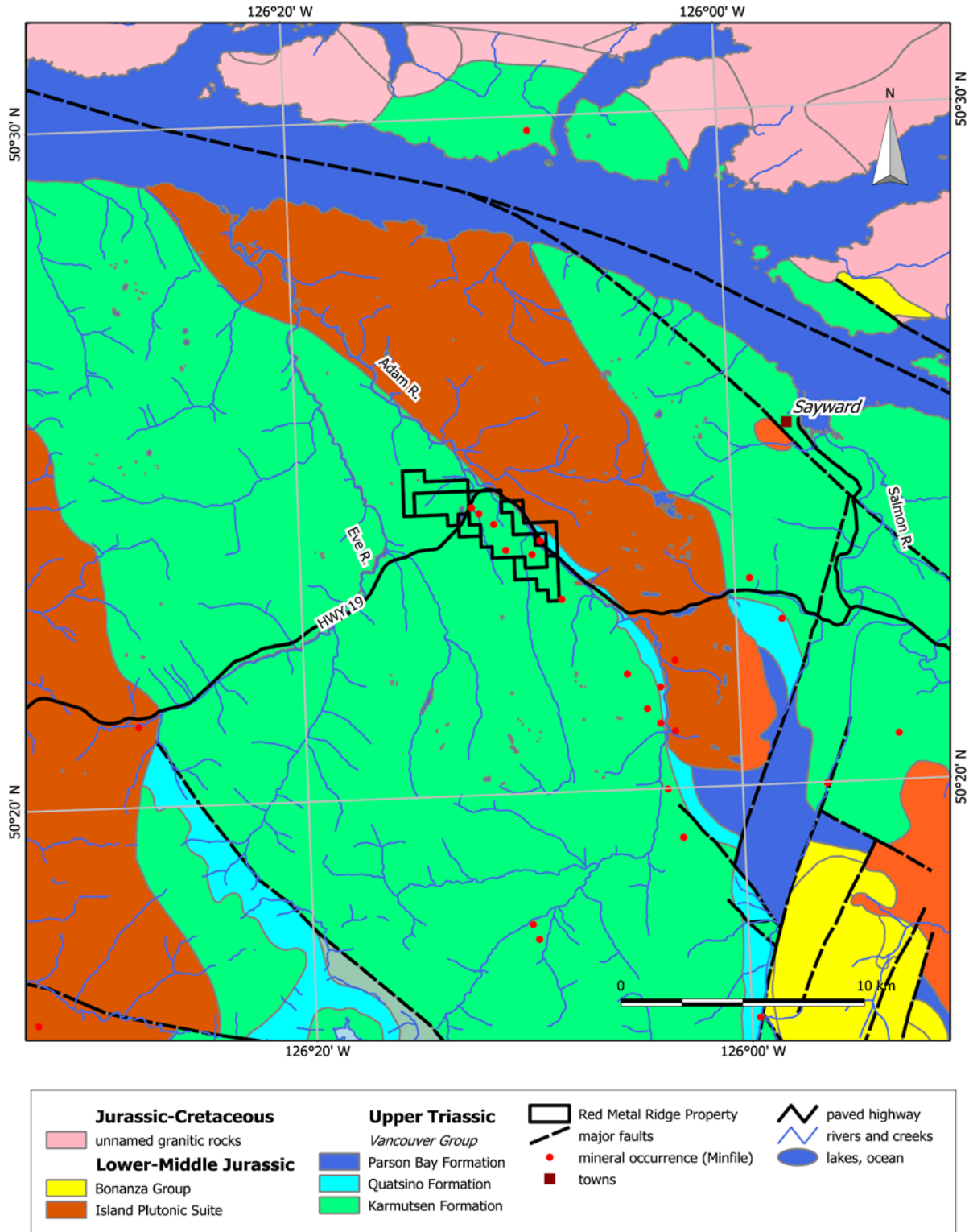


Figure 7. Regional geologic setting, Red Metal Ridge Property. Map created by D.G. MacIntyre, May 2018 from B.C. digital geology data (Massey et al., 2003)

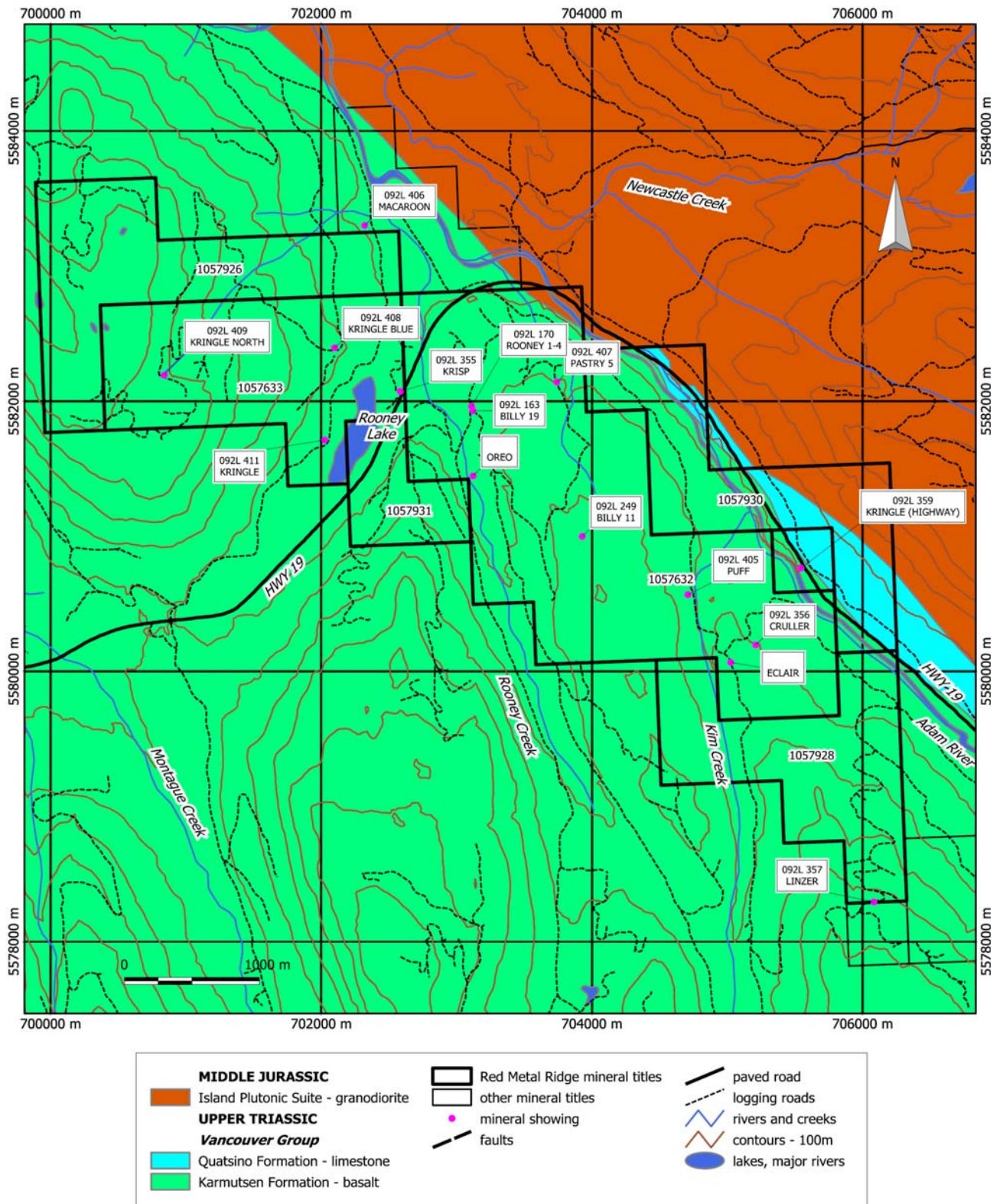


Figure 8. Property geology and location of mineral occurrences. Map created by D.G. MacIntyre, May 2018 from B.C. digital geology data (Massey et al., 2003)

Table 4. Mineral occurrences, Red Metal Ridge Property.

Minfile No.	Name	Easting	Northing	Deposit Type	Mineralization
092L 163	Billy 19	703121	5581929	I06: Cu+/-Ag quartz veins	Chalcopyrite, Bornite, Pyrite, Magnetite
092L 170	Rooney 1-4	703111	5581962	I06: Cu+/-Ag quartz veins	Chalcopyrite, Bornite, Pyrite, Magnetite
092L 249	Billy 11	703929	5581000	I06: Cu+/-Ag quartz veins	Chalcopyrite, Bornite, Pyrite, Magnetite
092L 355	Krisp	702583	5582073	I06: Cu+/-Ag quartz veins	Chalcopyrite, Magnetite
092L 356	Cruller	705211	5580196	I06: Cu+/-Ag quartz veins	Pyrite, Chalcopyrite, Bornite
092L 357	Linzer	706084	5578294	I06: Cu+/-Ag quartz veins	Bornite, Chalcopyrite
092L 405	Puff	704710	5580568	I06: Cu+/-Ag quartz veins	Malachite
092L 407	Pastry 5	703741	5582141	I06: Cu+/-Ag quartz veins	Magnetite, Pyrite, Chalcopyrite
092L 408	Kringle Blue	702099	5582395	I06: Cu+/-Ag quartz veins	Malachite
092L 409	Kringle North	700840	5582193	I06: Cu+/-Ag quartz veins	Chalcopyrite
092L 411	Kringle (Plus 40)	702026	5581712	I06: Cu+/-Ag quartz veins	Chalcopyrite, Bornite
unassigned	Eclair	705026	5580067	I06: Cu+/-Ag quartz veins	Malachite, Chalcopyrite, Pyrite
unassigned	Oreo	703122	5581447	I06: Cu+/-Ag quartz veins	Malachite

6.2 Property Geology and Mineral Occurrences

The geology and location of mineral occurrences for the Red Metal Ridge Property is shown in Figure 8. This geology is based on the digital geology compilation for B.C. (Massey et al., 2003) and on historical reports that are discussed in the History Section of this report. The best geological map of the property was compiled by Sheppard (1977) based on mapping done in 1972 (see Figure 5). As shown on Sheppard's map, outcrop is quite extensive in the Adam River area. As shown in Figure 8, almost all of the current Property is underlain by amygdaloidal to massive basalt of the Karmutsen Formation. A small amount of Quatsino limestone and mid Jurassic grandiorite is covered by the Property, mostly along and northeast of the Adam River (Figure 8).

The following description of the Property geology is modified from Schau (2010).

The area covered by the Property is mainly underlain by the upper part of the Karmutsen Formation stratigraphy, comprising mainly thick massive flows with local intercalations of amygdaloidal basalt and pods of autoclastic breccias, pillowed and massive flows with thin intercalations of volcanoclastic and limey sandstones all cut by thin dolerite/gabbro sills. Several textural types of basalt have been noted in the area. Most common are feldspar phyric fine grained basalts. Local variants include those with abundant microlites and altered glass in the groundmass. Others are somewhat coarser grained. All varieties are locally amygdaloidal, varying from showing small occasional spherical amygdales filled with low temperature minerals to specimens with large irregular and locally joined amygdales. Coarser versions may represent later sills or possibly the centers of thick slowly cooled basalt flows.

The basalts are locally seen in stacked, massive, many metre thick units. Local pillow basalts are well exposed in quarries. The basalt units generally dip north to northeasterly with shallow to moderate dips. The basalts are variously veined and fractured.

The Quatsino Formation is a thin north-northwest trending belt northeast of the Karmutsen Formation (Figure 8). It is recrystallized and deformed as seen in road cuts along the highway. The thickness is not known. The Adam River follows part of its outcrop pattern. Outcrops on the property are closed to the contact with a large mid Jurassic pluton. Emplacement of the pluton has deformed and recrystallized the limestone to a light grey, finely crystalline rock. The limestones are remarkably pure calcite. Small elliptical grains of calcite and the prominent cleavage direction are elongated in direction of the layering. Locally, where intruded, they both host reaction and ore skarns (Schau, 2009).

Only a small part of the Property covers mid Jurassic granodiorite to quartz diorite northeast of Highway 19 (Figure 8). Outcrops in this area are mainly medium to fine grained biotite hornblende granodiorite and quartz diorite with a locally elevated content of mafic minerals. Near the contact with the Quatsino and Karmutsen formations the intrusion contains numerous inclusions. The mafic volcanic rock inclusions are transformed into dioritic inclusions, limestones become skarn and marble rafts and siliceous siltstones become rusty hornfels (Schau, 2009). At the contact, orientations of bedded host rocks are steep and complex.

6.2.1 Mineral Occurrences on the Property

The Red Metal Ridge Property covers 13 mineral showings, 11 of which are documented in the Minfile database (Table 4). The location coordinates shown in the table differ from those

in the Minfile database. The author has adjusted the location of some of the showings based on information contained in various assessment reports. As a result the location of the Billy 11, Billy 19, Linzer and Pastry 5 showings have been adjusted to more accurately reflect their true location on the Property.

Billy 19 - Minfile #092L 163

The Billy 19 showing is underlain by basalts of the Upper Triassic Karmutsen Formation. The occurrence consists of disseminated chalcopyrite and bornite, accompanied by minor pyrite and magnetite in fractured massive to amygdaloidal basalts. Chlorite and epidote alteration are present near the mineralization.

In 1969, diamond drilling returned values of 0.53% copper over 1.5 metres and 0.27% over 3.8 metres from hole number one. Hole number two, at the same location but drilled at a different azimuth, has as its highest assay 0.41% copper over 1.5 metres. A drill hole located 113 metres north of the above holes (diamond-drill hole #5) returned 0.14% copper over 6 metres (Assessment Report 3795). The approximate location of the 1969 drill holes is shown in Figure 5.

Rooney 1-4 - Minfile #092L 170

The Rooney showing is located on a un-named north flowing tributary of Rooney Creek, approximately 700 metres east of Rooney Lake.

The occurrence consists of disseminated chalcopyrite and bornite, accompanied by minor pyrite and magnetite in an area where the massive to amygdaloidal basalts are fractured and bleached. Chlorite and epidote alteration are present near mineralization.

In 1969, a chip sample over 6.0 metres assayed 0.23% copper, but other samples in the vicinity ran in the 0.03 range (Richardson 1969; Assessment Report 1859). In 2004, sampling yielded up to 1.26% copper and 6 grams per tonne silver (Schau 2004; Assessment Report 27463). The location of the 1969 samples is shown in Figure 4.

Billy 11 - Minfile #092L 249

The Billy 11 occurrence is located on a ridge west of the Adam River, approximately 2.2 kilometres south east of Rooney Lake. It has been explored in conjunction with the Billy 19 (MINFILE 092L 163) located 1220 metres to the north west.

The occurrence consists of disseminated chalcopyrite and bornite with minor pyrite and magnetite in an area where the massive amygdaloidal basalts are highly fractured. Chlorite and epidote alteration are present near mineralization.

In 1969, diamond-drill Hole 6 assayed 0.48% copper over 3.6 metres (Sheppard, 1977; Assessment Report 3795). This drill hole is presumed to be the locality intended for this showing. The location of this showing on Figure 8 is based on drill hole information contained in Sheppard (1977). The adjusted coordinates are given in Table 4.

Krisp - Minfile #092L 355

The Krisp showing is located on the southeast side of the Island Highway, east of Rooney Lake. The showing was discovered in 2005 by M. Schau and subsequently sampled.

The area is underlain by Karmutsen basalts, as a mix of autoclastic breccias, pillowed and massive flows with thin intercalations of volcanoclastic and limey sandstones cut by thin dolerite/gabbro sills.

Locally, a mineralized Tertiary (?) shear system(s) with epidote± magnetite bearing sulphide disseminations in and adjacent to a shear zone and hydrothermal system associated (?) with a nearby contact between the Triassic Vancouver Group and the Jurassic Adam River batholith.

In 2005, a grab sample of vein material containing chalcopyrite mineralization returned values up to 6.33% copper, 18.4 grams per tonne silver and 0.212 grams per tonne gold (Schau, 2005; Assessment Report 27736).

Cruller - Minfile #092L 356

The Cruller showing is located between Kim Creek and the Adam River in the south-central part of the Property.

The showing is described as distal skarn contact mineralization that occurs near a porphyritic monzodiorite dike. The dike appears to strike 150 degrees. Mineralization consists of pyrite, chalcopyrite and malachite.

In 2006, sampling yielded up to 2.71% copper, 5.6 grams per tonne silver and 0.35 grams per tonne gold (Shau 2006; Assessment Report 28747). In 2010, sampling of the zone returned up to 2.83% copper and 6 grams per tonne silver (Shau, 2010; Assessment Report 31856).

Linzer - Minfile #092L 357

The Linzer showing is located on or near the southernmost boundary of the Property. A complete exploration history of this showing can be found in Assessment Report 31856 (Schau, 2010).

Locally, three (Upper, Mid and Lower) areas of small, several centimetre wide, bornite-chalcopyrite veins and breccias are hosted in potassic altered basalts over a length of 150 metres. In 2006, sampling yielded up to 21.28% copper and 49.1 grams per tonne silver (Schau, 2007; Assessment Report 28747).

Approximately 250 metres to the north east of the Linzer occurrence, malachite stained basalts host copper values. In 2006, two samples yielded 4.9 and 3.2% copper with 6.5 grams per tonne silver each, respectively (Schau, 2007; Assessment Report 28747). Location of the 2006 samples is shown in Figure 6. The location of the Linzer showing has been adjusted based on the GPS coordinates contained in assessment report 28747. Based on these coordinates the Linzer showing plots on the boundary of the Property.

Puff - Minfile #092L 405

The Puff occurrence is located in a quarry along the Kim Creek FSR near a logging road junction, approximately 2.6 kilometres southeast of Rooney Lake.

The showing is comprised of quartz veins in fractured and brecciated basaltic rock. A nearby felsite dike hosts chalcopyrite mineralization. Other highly sheared and locally veined zones of magnetite-chalcopyrite bearing epidosite are also reported from sampling in the quarry.

In 2002, sampling yielded up to 4.5% Cu, 23.9 grams per tonne Ag, 0.107 grams per tonne Au and 0.118 gram per tonne Pd from a 6 centimetre wide mineralized quartz vein; while a sample of the mineralized felsic dike yielded 2.25% Cu and 12.3 grams per tonne Ag. A chip sample across the mineralized shear zone yielded 0.95% Cu and 4.62 grams per tonne Ag over 2.2 metres (Schau 2002; Assessment Report 27070).

In 2006, sampling yielded up to 4.65% copper and 29.7 grams per tonne silver (Schau 2006; sample PU-2; Assessment Report 28328). In 2009, a sample (109a1) taken from near the shear assayed 52.6 grams per tonne silver and greater than 1.0% copper (Schau 2009; Assessment Report 31039). In 2010, a chip sample assayed 7.1% copper, 46.7 grams per tonne silver and 0.06 gram per tonne gold (Shau 2010; Assessment Report 31856).

Pastry 5 - Minfile #92L 407

The Pastry 5 occurrence is located near a logging road junction, southwest of the Adam River and approximately 1.5 kilometres east-northeast of Rooney Lake.

At the showing, an epidotized felsite brecciated basalt hosts magnetite veins, disseminated sulphides and malachite staining. In 2004, sampling yielded up to 0.9% copper and 3.3 grams per tonne silver, while a nearby talus boulder assayed 4.8% copper and 14.6 grams per tonne silver (Schau 2004; Assessment Report 27463).

Kringle Blue - Minfile #92L 408

The Kringle Blue occurrence is located southwest of the Adam River, approximately 400 metres north-northwest of Rooney Lake.

At the showing, a malachite stained “blue” quartz vein is hosted by massive basalt. In 2006, sampling yielded up to 0.681% copper, 6.4 grams per tonne silver and 0.266 gram per tonne gold (Schau 2006; Assessment Report 28328).

Kringle North - Minfile #092L 409

The Kringle North occurrence is located at an elevation of 605 metres in the head waters of an unnamed northeast flowing tributary of Rooney Creek.

At the showing, basalts host quartz-feldspar-epidote veins with sulphide mineralization. In 2006, a lone sample (K079) assayed 0.424% copper, 3.0 grams per tonne silver, 1.17 grams per tonne gold and 0.11 gram per tonne palladium (Schau 2006; Assessment Report 28328).

Kringle (Plus 40) - Minfile #092L 411

The Kringle (Plus 40) occurrence is located on the northwest side of Rooney Lake.

The showing is comprised of chalcopyrite, bornite, malachite and azurite mineralization, in basalt that has been exposed in road cuts.

Eclair

The Eclair occurrence is located a few hundred metres south west of the Cruller showing. In the Minfile database it is included with the Cruller showing although it is at a different location. The showing exposed in borrow pits on either side of the Kim Creek FSR. Here, amygdaloidal, feldspar phyric basalt hosts quartz veins with chalcopyrite and bornite. Malachite and azurite occurs on fracture surfaces and in shear zones.

The first mention of this showing is a 2011 assessment report (Schau, 2011; Assessment Report 32553). A sample collected in 2011 returned up to 6.09% Cu. This showing was sampled again in the 2018 program described in this report.

Oreo

The mineralization noted in Oreo is in a large road metal quarry which has been situated between two shear zones to exploit the crushed rock developed there (Schau, 2002). The quarry is on the west side of the east arm of Rooney Creek and is approximately 450 metres south of the Rooney 1-4 and Billy 19 showings (Figure 8). According to Schau (2002) this whole region is mineralized with copper sulphides and attendant epidote alteration. The mineralization is spread across the quarry floor in patches seemingly associated with secondary faults. The patches are metre sized and are chalcedonic in nature. The mineralization is predominantly chalcopryrite with associated epidote and other unidentified green minerals.

Several patches yield good values, the best being 1.26% Cu and 6.0 grams per tonne Ag (Schau, 2002; Assessment Report 27070).

6.2.2 Mineral Occurrences not on the Property

Kringle (Highway) - Minfile #092L 359

The Kringle (Highway) showing is located on the east side of the Adam River. The area is underlain by the volcanic rocks of the Triassic Karmutsen Formation (Vancouver Group) and limestones of the Triassic Quatsino Formation (Vancouver Group). These are near the contact with the Jurassic Adam River batholith to the east. Early altered dikes are near, and fresh porphyry dikes cut, the altered contact. This showing is surrounded by the Property (Figure 3).

Locally, sulphides occur as veins cutting, garnet skarns, granodiorite, and feldspar porphyries, and as replacement masses at contacts between rock types, especially marble and garnetite. Sulphide mineralization consists of bornite along with, and among, magnetite, chalcopryrite, pyrrhotite (?), and pyrite. Local masses of wollastonite are also reported.

In 2002, a sample (E187880) of malachite-stained, argillically altered felsite(?) returned 7.05% copper, 67.2 grams per tonne silver. Another sample (E187881) returned 0.112% molybdenum with 0.203% copper. Samples of massive magnetite yielded up to 36.7% iron (Schau, 2002; Assessment Report 26930). In 2006, a sample (A8-79) assayed 0.018% molybdenum and 0.218% vanadium (Schau, 2009; Assessment Report 31039).

Macaroon - Minfile #092L 406

The Macaroon occurrence is located west of Rooney Creek, approximately 300 metres south-southwest of its junction with the Adam River. The area to the west of the Adam River is underlain mainly by the upper part of the Triassic Karmutsen Formation, comprising mainly thick massive flows with local intercalations of amygdaloidal basalt and pods of autoclastic breccias, pillowed and massive flows with thin intercalations of volcanoclastic and limy sandstones, all cut by thin dolerite/gabbro sills.

Locally, a highly sheared and strained silicified, chloritic and epidotic andesite hosts sulphide mineralization. Small dodecahedrons of reddish-brown garnet occur with epidote and felsitic rocks. In 2004, sampling yielded up to 2.4% copper and 21.7 grams per tonne silver with anomalous values in gold and palladium (Schau 2004; Assessment Report 27463).

7 Deposit Types

The Minfile database classifies the Billy 19 and Rooney 1-4 showings as porphyry Cu type occurrences. Other showings are classified as vein, breccia and stockwork type occurrences (Mineral Deposit Profile Category I). The Cruller showing is classified as a skarn. A complicating factor in the classification of the showings on the property is that in many cases there is evidence of post mineral shearing which has destroyed or modified some of the original vein features.

In the author's opinion all of the showings on the property should be classified as vein showings, specifically Cu-Ag quartz veins (Lefebure 1996; Mineral Deposit Profile type I06). This deposit type is characterized by quartz-carbonate veins containing patches and disseminations of chalcopyrite with varying amounts of bornite, tetrahedrite, covellite and pyrite. Malachite and azurite are common secondary minerals. This type of vein typically crosscuts clastic sedimentary or volcanic sequences, however, there are also Cu quartz veins related to porphyry Cu systems and associated with felsic to intermediate intrusions.

A diversity of tectonic settings reflecting the wide variety of hostrocks including extensional sedimentary basins and volcanic sequences associated with rifting or subduction-related continental and island arc settings.

Veins are typically emplaced along faults; they commonly postdate major deformation and metamorphism. The veins related to felsic intrusions form adjacent to, and are contemporaneous with, mesozonal stocks. In the case of the Property showings this would be the mid Jurassic granodiorite northeast of Highway 19.

Cu-Ag quartz veins are known to occur in virtually any rocks although the most common hosts are clastic metasediments and mafic volcanic sequences such as the Karmutsen basalts. Mafic dikes and sills are often spatially associated with metasediment-hosted veins. These veins are also found within and adjacent to felsic to intermediate intrusions. These occur on the Property as dykes.

This deposit type also typically forms simple to complicated veins and vein sets which follow high-angle faults which may be associated with major fold sets. These types of structures are common in the Adam River area. Single veins vary in thickness from centimetres up to tens of metres. Major vein systems extend hundreds of metres along strike and down dip. In some exceptional cases the veins extend more than a kilometre along the maximum dimension.

Sulphides are irregularly distributed as patches and disseminations. Vein breccias and stockworks are associated with some deposits. The mineralogy of intrusion related veins can include chalcopyrite, bornite, chalcocite, pyrite, pyrrhotite; enargite, tetrahedrite-tennantite, bismuthinite, molybdenite, sphalerite, native gold and electrum. Quartz and carbonate (calcite, dolomite, ankerite or siderite); hematite, specularite, and barite are common gangue minerals. Wallrocks are typically altered for distances of centimetres to tens of metres outwards from the veins. The metasediments display carbonatization and silicification. Decalcification of limy rocks and zones of disseminated pyrite in roughly stratabound zones are also reported for this deposit type. The volcanic hostrocks exhibit abundant epidote with associated calcite and chlorite. Epidote and chlorite alteration are commonly associated with showings on the Property Malachite or azurite staining is commonly associated with this deposit type and this is also the case on the Property.

Ore controls for this deposit type are structural. Veins and associated dikes follow faults. Ore shoots are commonly localized along dilational bends within veins. Sulphides may occur preferentially in parts of veins which crosscut carbonate or other favourable lithologies. Intersections of veins are an important locus for ore.

Lefebure (1996) indicates that the genetic model for this deposit type is one where the veins are associated with major faults related to crustal extension which control the ascent of hydrothermal fluids to suitable sites for deposition of metals. The fluids are believed to be derived from mafic intrusions which are also the source for compositionally similar dikes and sills associated with the veins.

8 Exploration

In early 2018, Rich River Exploration, under the supervision of Mr. Craig Lynes collected 341 soil samples and 32 rock samples, all part of a prospecting program conducted on the Red Metal Ridge Property. A Beep Mat geophysical survey was also completed as part of the prospecting program. The geophysical survey involved the recording of 32,682 readings over a 12 day period in March 2018. The geochemical sampling, prospecting and Beep Mat survey were done along existing logging roads and covered a large part of the property. This section describes the results of this work. All of the work done on the property was on behalf of Crest Resources Inc.

Rock and soil samples collected by Rich River in 2018 were shipped to ALS Minerals laboratories in North Vancouver and were analyzed for 36 elements using an Aqua Regia digestion and an Inductively Coupled Plasma Mass Spectrometry (ICP-MS) finish. Ore grade samples returning values greater than the upper detection limit of the ICP-MS method were also analyzed by Inductively Couple Plasma Atomic Emission Spectrometry (ICP-AES) to quantify the concentration of ore grade material.

8.1 Soil Samples

The locations of the 341 soil samples collected in 2018 are shown in Figure 9 and Map 1 (Appendix E). Samples were collected along existing logging roads at roughly 50 metre intervals. In Figure 9, proportional symbol size and colour is used to highlight anomalous samples. Table 5 is a summary of statistics for these samples. The main elements of interest on the property are Cu and Ag. For Cu, soil samples returned values ranging from 8 to 1380 ppm Cu, with a mean value of 121.96 ppm Cu. As shown in Figure 9 there is a cluster of anomalous samples near the Puff, Eclair and Cruller showings. Ag values did not define any obvious target areas with random anomalies spread throughout the area of sampling.

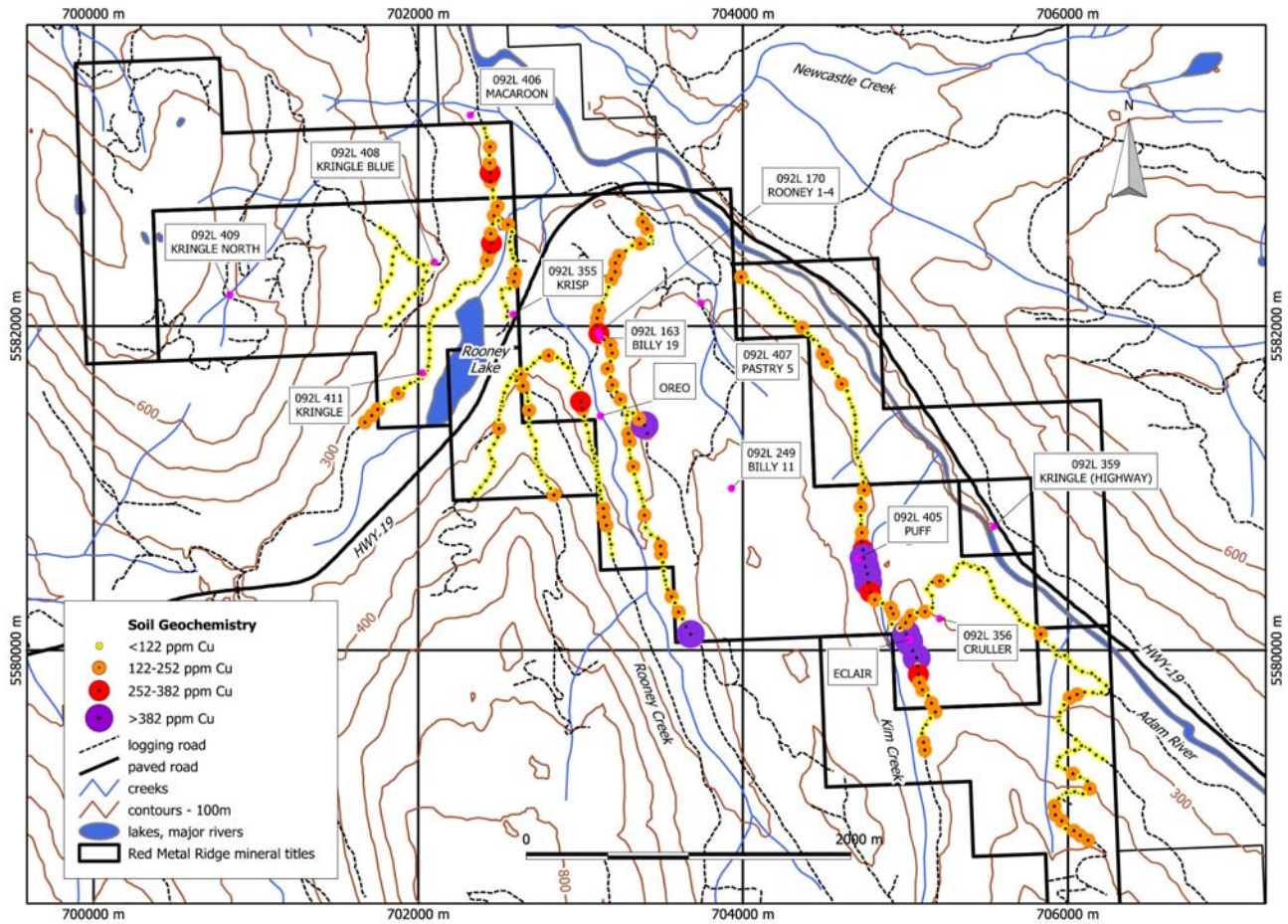


Figure 9. Proportional symbol plot showing results for Cu (ppm) in the 2018 soil samples. Map produced by D.G. MacIntyre using analytical results from ALS laboratories, May 2018.

Table 5. Summary statistics for 2018 soil samples (N=341).

Lab. No.	Minimum	Maximum	Median	Average	Std. Dev.	90th Percentile	95th Percentile	N > detection
Ag ppm	0.02	4.82	0.11	0.136	0.263	0.19	0.24	341
Al %	0.14	12.85	4.95	5.076	1.658	7.1	8.033	341
As ppm	0.4	21.8	1.2	1.863	1.894	3.9	5.005	341
Au ppm	<0.02	0.38	<0.02	<0.01701	0.027	<0.02	<0.02	8
B ppm	<10	10	<10	<8.2991	5.587	<10	10	29
Ba ppm	10	110	20	19.912	10.860	30	40	341
Be ppm	<0.05	1.08	0.5	0.496	0.149	0.67	0.71	337
Bi ppm	0.01	0.16	0.06	0.060	0.027	0.09	0.1005	341
Ca %	0.09	2.57	1.01	1.077	0.500	1.83	2.0005	341
Cd ppm	0.07	0.87	0.19	0.229	0.128	0.38	0.501	341
Ce ppm	0.61	52.6	13.95	15.379	7.545	25	30.32	341

Lab. No.	Minimum	Maximum	Median	Average	Std. Dev.	90th Percentile	95th Percentile	N > detection
Co ppm	0.9	173	16.9	19.329	16.545	30.2	38.6	341
Cr ppm	3	149	76	75.595	24.242	105	114	341
Cs ppm	<0.05	0.97	0.31	0.333	0.133	0.5	0.561	339
Cu ppm	8	1380	93.9	121.961	130.612	183	230.3	341
Fe %	0.22	14.3	6.92	6.903	1.960	9.29	10	341
Ga ppm	0.52	45.7	14.8	14.867	4.536	20.2	22.705	341
Ge ppm	0.05	0.26	0.1	0.106	0.033	0.15	0.17	341
Hf ppm	<0.02	1.59	0.56	0.590	0.301	1	1.14	339
Hg ppm	0.02	0.67	0.19	0.195	0.088	0.29	0.3505	341
In ppm	0.005	0.131	0.063	0.062	0.019	0.085	0.096	341
K %	<0.01	0.19	0.01	0.014	0.012	0.02	0.03	340
La ppm	0.3	10.1	3.7	3.871	1.351	5.5	6.2	341
Li ppm	0.1	19.4	4.8	4.909	1.837	6.8	7.9	341
Mg %	0.04	2.17	0.45	0.492	0.248	0.8	0.93	341
Mn ppm	15	6160	383	560.455	777.791	887	1294.5	341
Mo ppm	0.24	22.4	0.77	1.071	1.620	1.47	2.096	341
Na %	<0.01	0.06	0.01	0.013	0.008	0.02	0.03	336
Nb ppm	0.19	6.88	4.15	4.061	1.067	5.24	5.75	341
Ni ppm	3.4	72	26.5	26.744	9.533	37.7	42.605	341
P ppm	170	1230	490	499.296	141.153	680	740.5	341
Pb ppm	0.7	26.5	3.2	4.316	3.325	8.5	9.9	341
Rb ppm	0.4	6.1	1.1	1.150	0.547	1.7	2	341
Re ppm	<0.001	0.006	<0.001	<0.0006	0.001	0.001	0.001	53
S %	<0.01	0.33	0.04	0.046	0.027	0.07	0.08	338
Sb ppm	<0.05	1.74	0.11	0.137	0.118	0.22	0.26	336
Sc ppm	0.3	27.5	13.7	13.860	4.830	19.5	21.525	341
Se ppm	<0.2	4	0.9	0.995	0.510	1.7	1.905	340
Sn ppm	0.2	2.3	1	0.972	0.294	1.3	1.5	341
Sr ppm	4.6	91.7	15.8	19.066	11.401	31.2	39.03	341
Ta ppm	<0.01	0.16	0.05	0.053	0.036	0.11	0.12	335
Te ppm	<0.01	0.08	0.02	0.024	0.017	0.05	0.06	320
Th ppm	<0.2	1.7	0.6	0.616	0.221	0.8	0.9	334
Ti %	0.022	1.56	0.688	0.681	0.205	0.912	0.99075	341
Tl ppm	<0.02	0.1	<0.02	<0.00237	0.023	0.03	0.03	133
U ppm	<0.05	9.93	0.3	0.377	0.543	0.55	0.6315	340
V ppm	13	649	266	269.572	87.074	376	424.1	341
W ppm	<0.05	0.16	<0.05	0.004	0.063	0.08	0.1	151
Y ppm	0.25	31.4	10.75	11.149	4.648	16.85	19.2025	341
Zn ppm	13	117	44	45.886	16.015	65	72	341
Zr ppm	<0.5	59.4	23.9	24.367	11.274	39.1	43.955	340

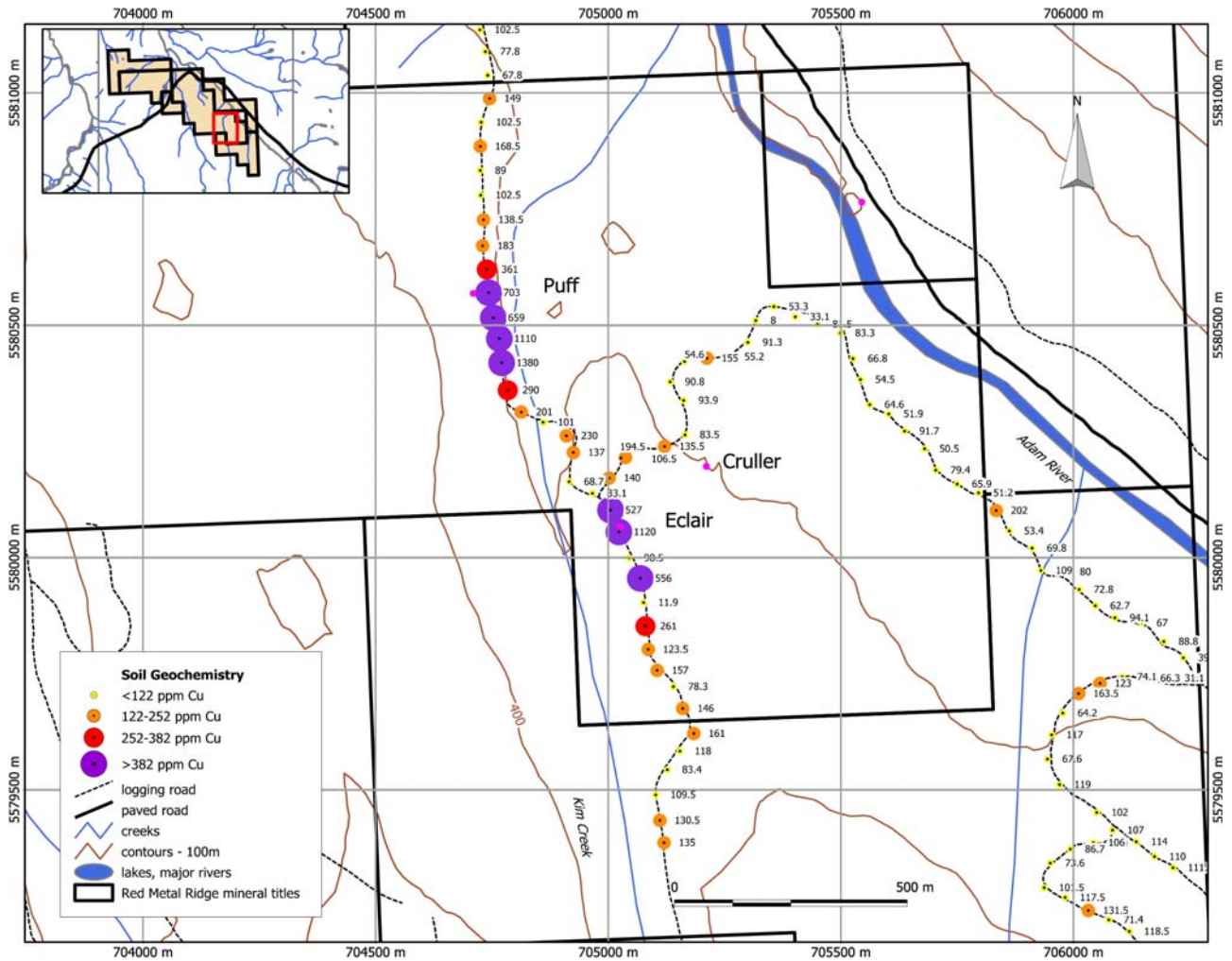


Figure 10. Proportional symbol plot showing results for Cu (ppm) in soil samples collected near the Eclair Showing. Map produced by D.G. MacIntyre using analytical results from ALS laboratories, May 2018.

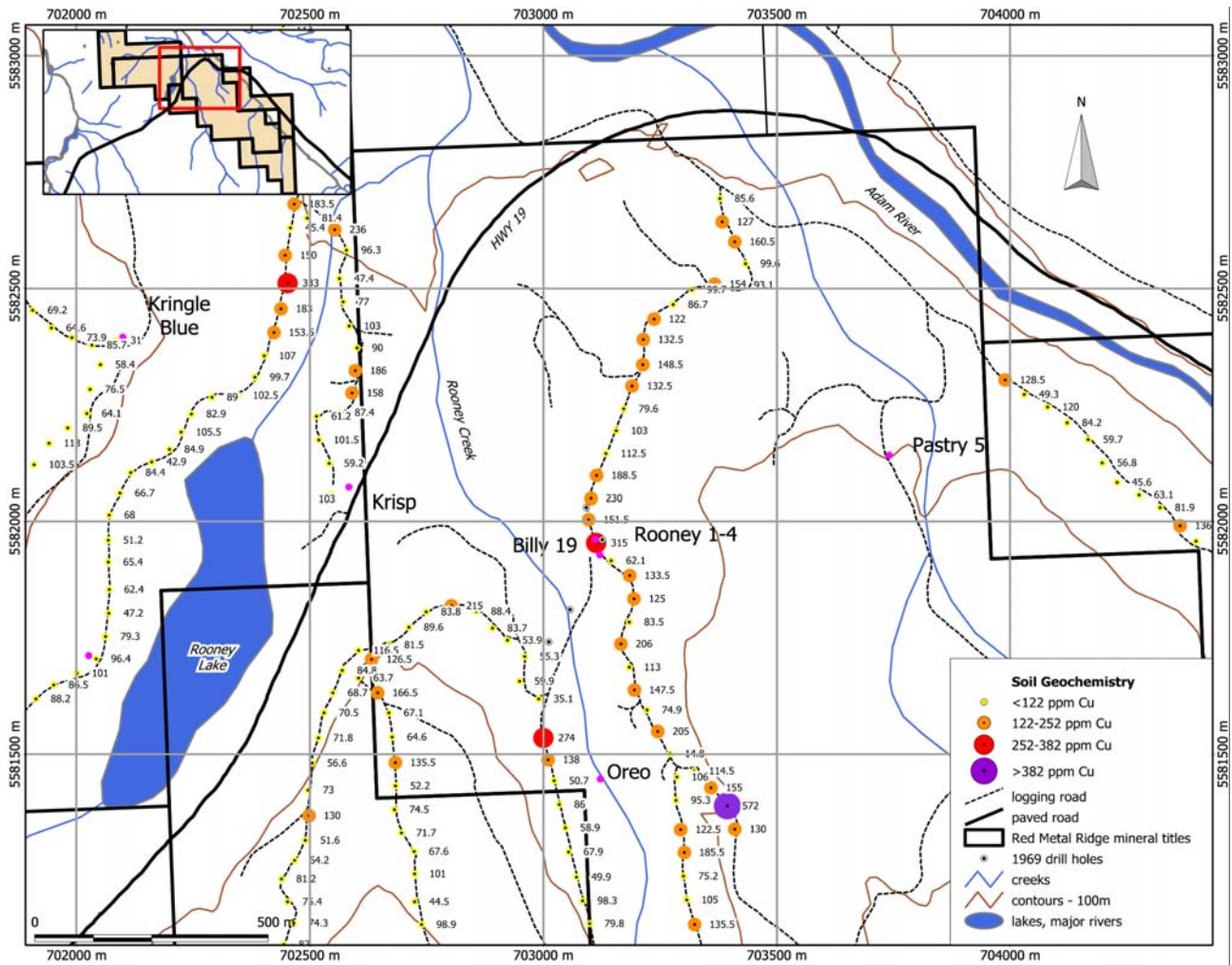


Figure 11. Proportional symbol plot showing results for Cu (ppm) in soil samples collected in the Rooney Creek area. Map produced by D.G. MacIntyre using analytical results from ALS laboratories, May 2018.

A number of soil samples in the Rooney Creek area also returned anomalous values for Cu (Figure 11) but there is no obvious clustering of anomalies. One sample collected near the Billy 19 and Rooney 1-4 showings did return 351 ppm Cu and a sample from another 600 metres to the south-southeast returned 572 ppm Cu (Figure 11).

8.2 Rock Samples

A total of 32 rock samples were collected from the Property in 2018. The location of these samples is shown in Figures 12, 13 and 14. Sample descriptions, location coordinates and results for Cu, Mo, Ag and As are given in Table 6. Copper values are reported in ppm for samples returning less than 10,000 ppm Cu. Samples that returned greater than 10,000 ppm, were reanalyzed using a different analytical technique suitable for ore grade material. Of the 32 samples submitted for assay, 15 returned values greater than 10,000 ppm Cu. Most of

these samples were from the Puff and Eclair showings. The best result for Cu was 14.95% for a sample of massive sulphide in a shear zone collected from the Eclair quarry site (Map No. R6, Figure 13). The best result for Ag was 34.7 ppm for a sample from the Puff showing (Map No. R12, Figure 14). One sample collected north of the Linzer showing returned 1855 ppm Mo (Map No. R15, Figure 15) in what is described as a 0.5 metre wide massive chalcopyrite-pyrite vein in basalt. Other samples from this locality (R13-R16, Table 6) were also anomalous in Mo and As compared to samples collected elsewhere on the Property. Cu values at this locality ranged from 1740 to 8290 ppm. Samples collected further north along the logging road (Map Nos. R17-R20; Figure 15) also returned good Cu values. One of these samples (Map No. R19; Figure 14) that returned 2.32% Cu was probably collected from the same site that M. Schau collected two samples from in 2006 that returned 3.2 and 4.9% Cu respectively (Schau, 2006a). The location of these two samples is shown in Figure 6 in the History Section of this report.

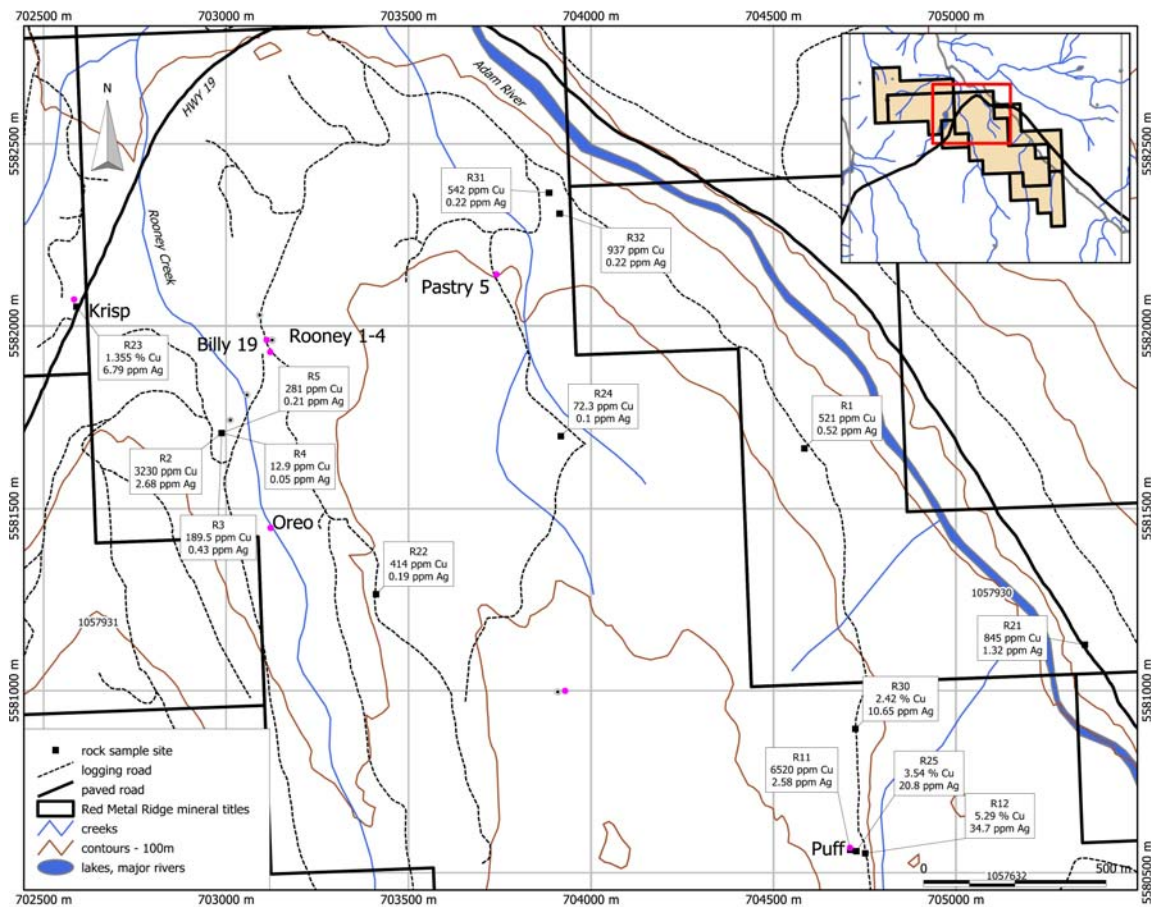


Figure 12. Rock sample locations and results for Cu and Ag, north central area. Map prepared by D.G. MacIntyre from ALS laboratory results and company supplied GPS sample site coordinates, May 2018.

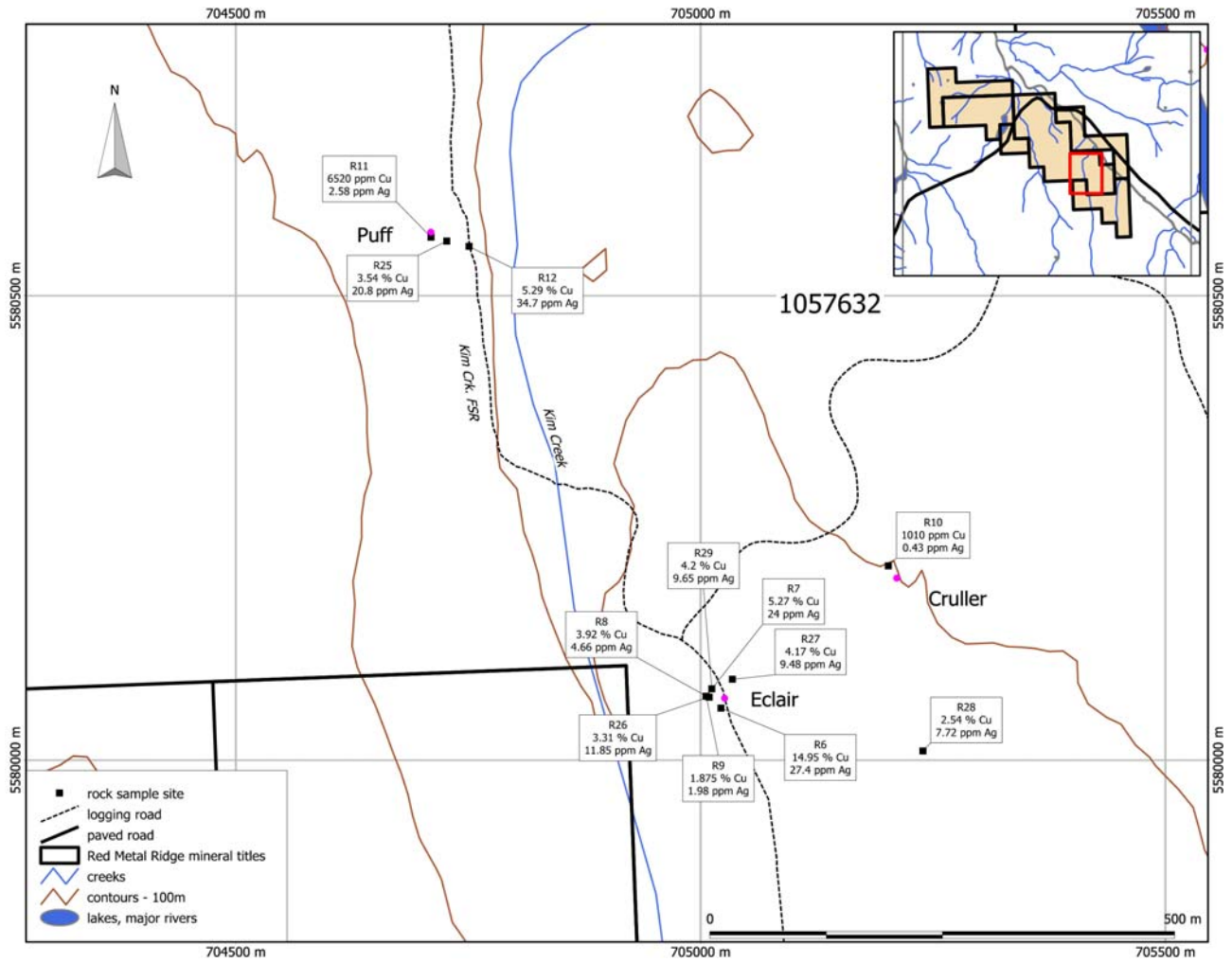


Figure 13. Rock sample locations and results for Cu and Ag, Eclair showing area. Map prepared by D.G. MacIntyre from ALS laboratory results and company supplied GPS sample site coordinates, May 2018.

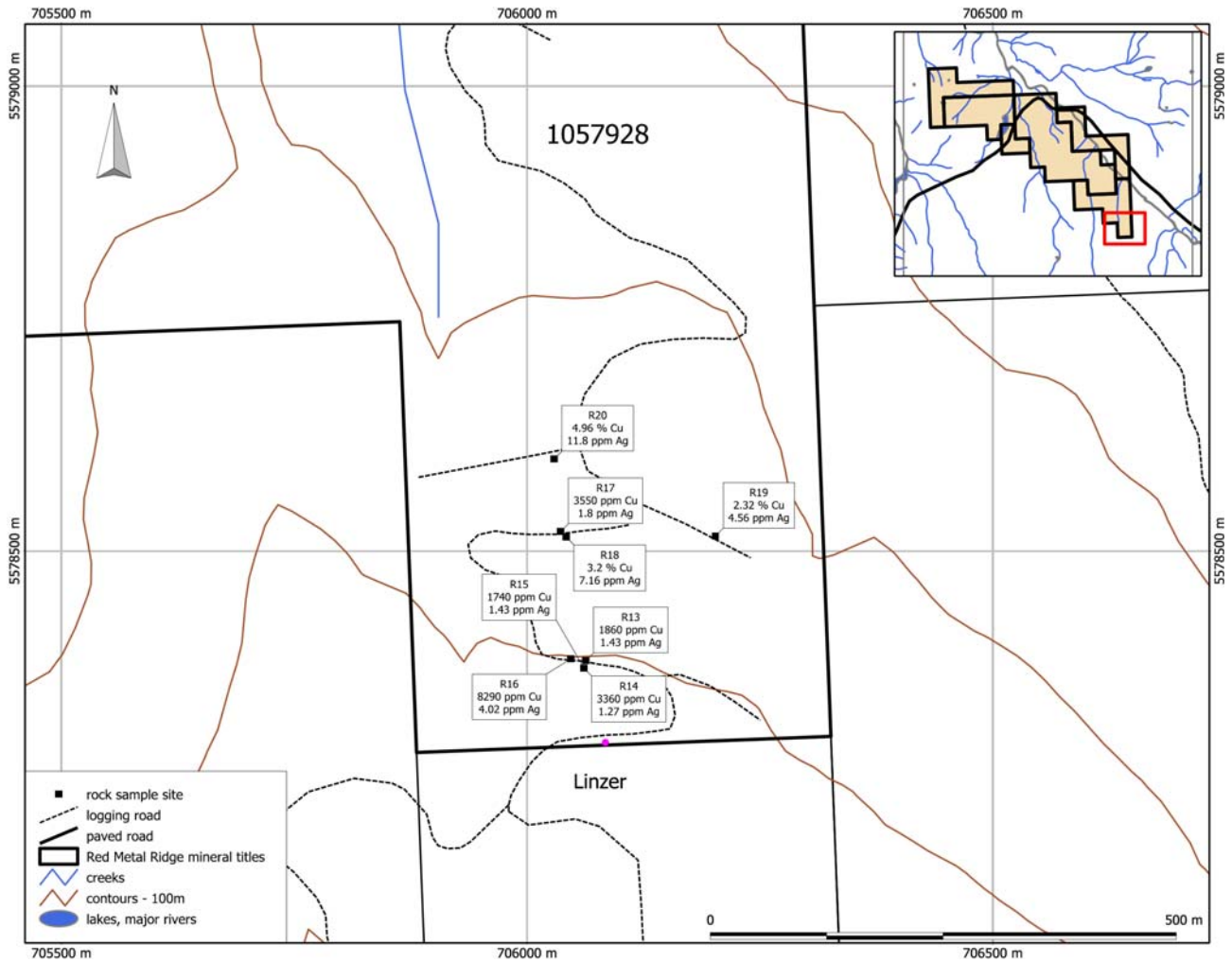


Figure 14. Rock sample locations and results for Cu and Ag, Linzer showing area. Map prepared by D.G. MacIntyre from ALS laboratory results and company supplied GPS sample site coordinates, May 2018.

Table 6. Rock sample descriptions and results for Cu, Mo, Ag and As.

Map No.	Sample	Easting	Northing	Description	Cu ppm	Mo ppm	Ag ppm	As ppm
R1	34501	704585	5581664	no information	521	0.33	0.52	25.1
R2	34502	702988	5581706	shear in volcanic with calcite and epidote stringers. Mal staining across Py shear zone.	3230	1.47	2.68	1.2
R3	34503	702988	5581706	Blebs-stringers massive Py. Ep alterations.	189.5	1.12	0.43	1.9
R4	34504	702988	5581706	sheared wall rock. Ep	12.9	0.54	0.05	0.8

Map No.	Sample	Easting	Northing	Description	Cu ppm	Mo ppm	Ag ppm	As ppm
				minor Cp-Py- Mt				
R5	34505	702988	5581706	hanging wall- Mt volc. Minor rhodonite? Or K spar	281	0.43	0.21	1.9
R6	34506	705022	5580056	Eclair showing. 10 cm seam massive Cp-Py in shear zone	14.95%	0.46	27.4	23.2
R7	34507	705006	5580069	Eclair showing. 1m chip shear zone with Mal, Az, Bn, Cc	5.27%	48.2	24	3.2
R8	34508	705006	5580069	shear. Footwall rocks. Mal stain. Pods of massive Cp-Py	3.92%	14.9	4.66	1.6
R9	34509	705006	5580069	1 m chip. Basalt dyke. Mal staining. Blebs Cp-Py	1.875%	11.4	1.98	2.2
R10	34510	705202	5580209	Cruller showing. 10 cm shear. Qtz calcite mal staining. Py-Cp	1010	0.87	0.43	9.4
R11	34511	704710	5580563	Puff quarry. 1 m chip outcrop. Mal staining. Fractured silicified volcanic.	6520	1.07	2.58	3
R12	34512	704751	5580553	Grab of Ep altered volcanic. Mal staining. - diss Cp-Py	5.29%	1.61	34.7	9.3
R13	34513	706063	5578382	Qtz. Carb veins in volc. Py-Cp Semi. Mass. 2-5 cm veins	1860	1855	1.43	303
R14	34514	706061	5578374	Outcrop. Stockwork veins of mass Py. with Cp-Py in basalt	3360	317	1.27	571
R15	34515	706061	5578374	Same zone. .5 m chip across massive Py-Cp veins in basalt outcrop. Road cut	1740	843	1.43	1055
R16	34516	706047	5578384	Grab. 8 cm wide vein chunk. mass Py float sub crop	8290	478	4.02	400
R17	34517	706036	5578521	Grab. 20 cm Qtz carb Ep vein. Outcrop blebs Cp-Py-Cc Mal, Az	3550	4.7	1.8	2.9
R18	34518	706042	5578515	Grab of Cp siliceous volc. Qtz carb Cc-Cp-Py Mal, Az.	3.2%	8.53	7.16	3.7
R19	34519	706202	5578516	Mal staining. Basalt diss Cp-Py. Diss. Cc subcrop	2.32%	0.87	4.56	0.4
R20	34520	706029	5578599	Grab ang. subcrop. Qtz rich volc. Diss. Po Cc. Minor Cp-Py Mal,	4.96%	3.53	11.8	63.7

Map No.	Sample	Easting	Northing	Description	Cu ppm	Mo ppm	Ag ppm	As ppm
				staining.				
R21	34521	705353	5581126	Grab 0.5 m Shear zone. Heavy Py	845	12.9	1.32	67.4
R22	34522	703411	5581265	Grab 10 cm fine mass Py. in volcanic rocks	414	0.85	0.19	46
R23	RMR-R-18-01	702590	5582053	outcrop, Krisp showing on highway, Mal. staining with Cp	1.355%	1.98	6.79	1.3
R24	RMR-R-18-02	703917	5581697	subcrop, blast pit, Py-Mal	72.3	0.79	0.1	2.6
R25	RMR-R-18-03	704727	5580559	grab sample, blast pit, Py-Mal-Ep.	3.54%	1.8	20.8	6.1
R26	RMR-R-18-04	705009	5580068	grab sample, blast pit, Py-Bn-Ep	3.31%	14.1	11.9	1.9
R27	RMR-R-18-05	705034	5580087	grab sample, blast pit, Mal. staining	4.17%	0.8	9.48	23.3
R28	RMR-R-18-06	705239	5580010	grab sample, Eclair pit, Mal-Az. staining	2.54%	1.49	7.72	3.6
R29	RMR-R-18-07	705012	5580077	grab sample, Eclair pit, Mal-Cp-Py	4.2%	23.2	9.65	10.3
R30	RMR-R-18-08	704724	5580895	grab sample, Eclair pit, Mal-Cp-Py	2.42%	0.9	10.7	5.2
R31	RMR-R-18-09	703885	5582366	grab sample, Wacor pit, Mt	542	0.32	0.22	1.6
R32	RMR-R-18-10	703914	5582309	outcrop, Wacor pit, Fe rich basalt (test sample for Fe)	937	0.95	0.22	0.5

Note: Cu values in % were reanalyzed using different analytical technique; Py = pyrite, Cp = chalcopyrite, Bn = bornite, Cc = chalcocite, Mal = malachite, Az = azurite, Mt = magnetite, Ep = epidote, Qtz = quartz

8.3 Beep Mat Survey

A Beep Mat geophysical prospecting survey was conducted by Rich River Exploration between March 20-31, 2018. The instrument used was a GDD Instruments BM8 model Beep Mat. This instrument records near surface electromagnetic and magnetic responses emanating from subsurface outcrop, subcrop and float that contain detectable amounts of sulphide minerals and magnetite. The instrument is dragged on the ground either behind a person on foot (Figure 15) or in some cases an ATV or snowmobile. The instrument records UTM location and the high frequency conductivity response (HFR) plus either the low frequency conductivity response (LFR) or magnetic susceptibility response (MAG) of near surface rock material. The HFR, LFR and MAG values are influenced by the conductivity of an object and its magnetite content (Figure 16). A LFR value indicates that the object is more conductive than magnetic, while a MAG value indicates the opposite. A conductive and magnetic rock could give a LFR or MAG value according to the proportion of those

elements. The bigger the object is or the closer it is to the probe, the higher the value. The presence of humidity in the ground causes the addition of an offset of 0 to -100 to the MAG value. For that reason, in the absence of conductors, the readings are generally MAG.

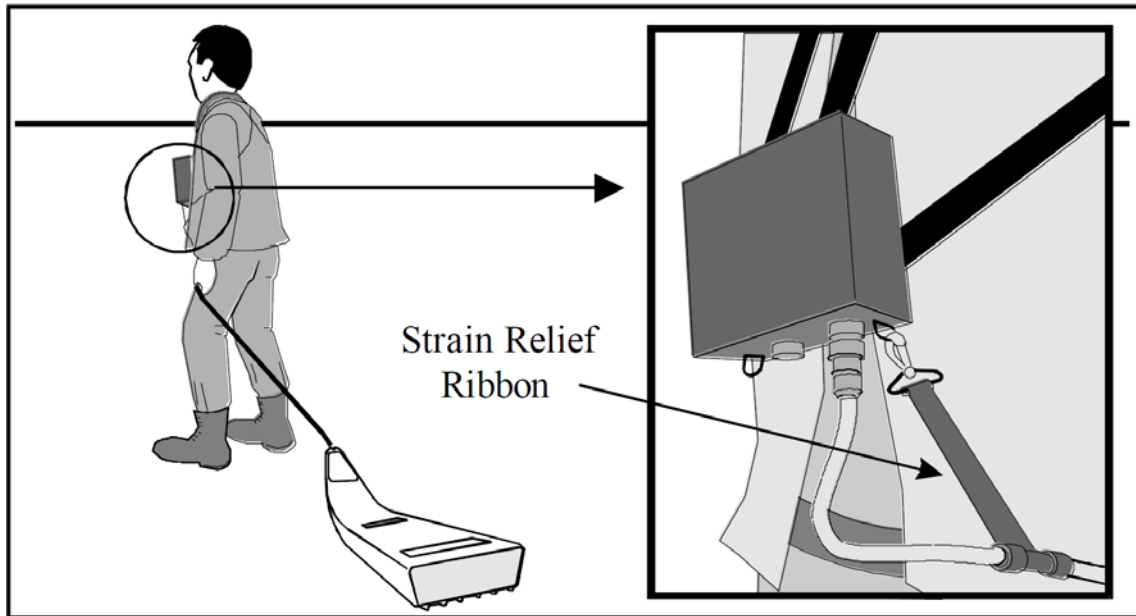


Figure 15. Typical use of the BM8 Beep Mat. Source: BM8 user manual.

The depth of the conductor influences the magnitude of the conductivity values with near surface material giving higher readings. The concentration of near surface sulphide material in bedrock or float will be proportional to the HFR/LFR response. The HFR is always displayed by the instrument. The LFR is displayed as long as no magnetite is present; otherwise the unit displays the MAG value instead of LFR. The MAG reading is the magnetic value (relative magnetic susceptibility) of near surface bedrock or float and increases in the presence of magnetite. The MAG value is indicated by a negative sign (magnetic content). A reading of -1000 corresponds approximately to 1% magnetite content (BM8 Instruction Manual).

The BM8 Beep Mat takes readings at 3 second intervals. The survey done on the Property recorded 32,682 data points. High Rt (Ratio) values indicate a good conductor which may be related to the presence of sulphide minerals in subsurface bedrock or float. Of the 32,682 data points, 618 had positive HFR, 1870 had positive LFR values and 260 had both positive HFR and LFR values and a corresponding Rt (Ratio) calculation. The higher the Rt value the stronger the conductor (BM8 user manual). The Rt is calculated only if magnetite is not present. Table 7 lists data points with Rt (Ratio) values greater than 80. The area covered by the survey and the location of anomalous conductivity readings shown as proportional

symbol plots is shown in Figure 17. Data points with Rt values greater than 80% are plotted as purple squares.

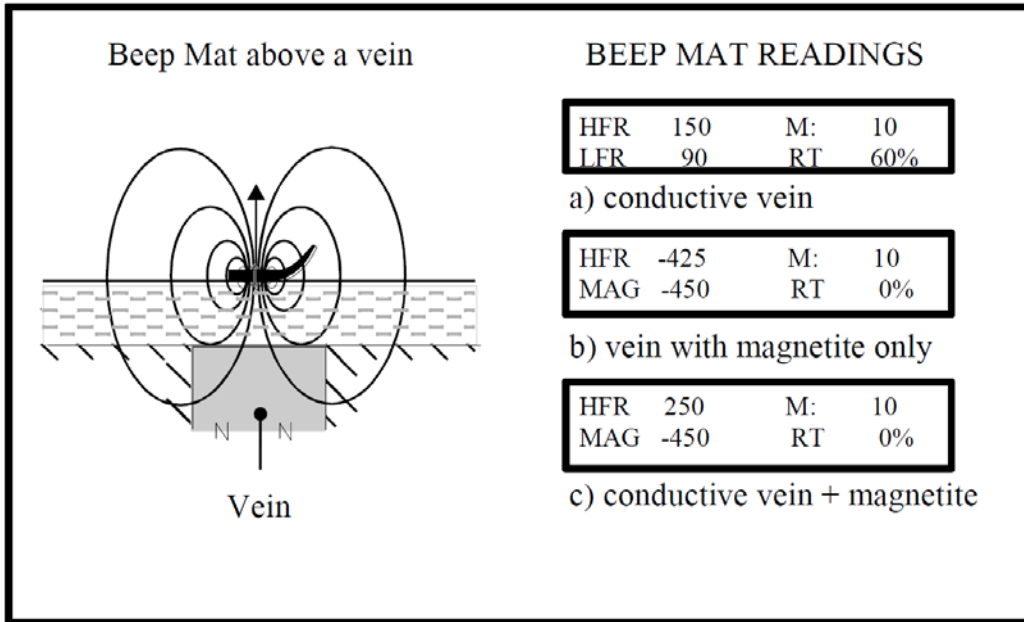


Figure 16. Typical HFR, LFR and MAG values from a near surface vertical vein. Note that for a non magnetic conductor the RT value (LFR/HFR) is positive. Source: BM8 user manual.

Table 7. Beep Mat data points with Rt values greater than 80% (strong conductors)

Record No.	HFR	LFR	Rt	Northing	Easting	Record No.	HFR	LFR	Rt	Northing	Easting
2	51	45	88	5583136	702437	8156	25	37	99	5582174	702608
3	51	44	86	5583135	702435	8176	431	446	99	5579439	706050
75	91	79	86	5582986	702412	8249	1121	1103	98	5579612	705947
214	10	39	99	5583035	702407	9077	6992	6689	95	5582299	702594
215	72	93	99	5583035	702407	9078	5086	4888	96	5582298	702593
216	71	90	99	5583037	702410	9385	49	62	99	5582181	702542
217	72	90	99	5583037	702410	9390	79	94	99	5582179	702541
218	70	89	99	5583040	702411	9564	264	272	99	5582083	702553
219	71	91	99	5583040	702411	9681	69	84	99	5582028	702542
220	57	77	99	5583044	702410	9711	17	15	89	5582012	702535
221	48	69	99	5583044	702410	9807	76	85	99	5581981	702518
222	65	84	99	5583047	702410	10163	21	37	99	5581794	702004
223	79	97	99	5583047	702410	10467	102	128	99	5581879	702011
224	58	78	99	5583049	702410	10468	45	80	99	5581880	702011
225	42	65	99	5583049	702410	10469	47	81	99	5581881	702010
226	72	90	99	5583051	702409	10470	44	79	99	5581881	702010
227	62	81	99	5583051	702409	11121	140	151	99	5581990	702002
228	51	72	99	5583053	702409	12369	118	124	99	5580973	702825
597	42	47	99	5581718	703134	12529	14	54	99	5581714	702114

Record No.	HFR	LF	Rt	Northing	Easting	Record No.	HFR	LF	Rt	Northing	Easting
648	38	60	99	5583212	702335	12530	11	56	99	5581714	702114
700	91	113	99	5583211	702324	12532	16	57	99	5581715	702114
982	456	443	97	5583113	702353	12533	21	62	99	5581715	702114
1579	13	35	99	5583102	702338	12643	274	259	94	5581603	702672
2054	10	39	99	5582320	703291	12727	17	31	99	5581760	702112
2055	10	38	99	5582320	703292	12728	133	111	82	5581761	702111
2057	10	39	99	5582320	703292	12729	49	51	99	5581761	702111
2597	11	17	99	5582279	703244	12730	14	46	99	5581762	702110
2639	22	39	99	5582279	703241	12731	48	66	99	5581762	702110
2840	332	347	99	5583087	702430	12786	11	29	99	5581764	702107
2876	52	59	99	5582243	703237	12850	383	356	93	5581775	702106
2914	156	138	88	5582271	703225	13010	29	36	99	5581000	703079
3065	602	528	87	5583080	702479	13053	122	141	99	5581004	703090
3076	247	235	95	5583087	702468	13079	141	145	99	5581823	702104
3101	70	81	99	5583009	702431	13084	252	246	97	5581015	703106
3143	10	37	99	5582946	702398	13270	712	693	97	5581494	704671
3422	108	144	99	5582696	703527	13404	2064	1975	95	5581861	704491
3723	531	517	97	5582408	703830	13405	2074	1985	95	5581861	704491
3726	2078	2012	96	5582408	703830	13406	2356	2251	95	5581862	704490
3727	1772	1705	96	5582408	703830	13407	1092	1051	96	5581862	704490
3728	1778	1711	96	5582408	703830	13414	1456	1403	96	5581866	704487
3734	667	697	99	5582408	703828	13415	1551	1494	96	5581867	704486
3735	1999	1957	97	5582408	703828	13465	167	176	99	5581953	704392
3736	1127	1103	97	5582408	703828	13645	107	126	99	5582283	704028
3763	92	82	88	5583179	702472	13646	524	514	98	5582285	704026
3839	26	46	99	5583147	702480	13766	6145	5598	91	5582403	703922
3851	1571	1570	99	5582257	703755	13849	402	405	99	5582191	703860
3876	755	778	99	5582253	703700	13850	862	830	96	5582192	703861
4116	1741	1593	91	5583071	702520	13851	1754	1683	95	5582192	703861
4264	25	21	86	5583108	702509	13852	1744	1675	96	5582192	703861
4501	100	167	99	5583176	702482	13853	410	417	99	5582192	703861
4563	125	144	99	5582103	701627	13967	318	324	99	5582163	703986
4567	130	180	99	5583171	702497	14198	87	135	99	5582831	701481
4602	17	34	99	5582072	701579	14324	19	31	99	5582706	701353
4607	123	132	99	5583187	702483	14358	14	25	99	5582646	701348
4777	1621	1555	95	5582135	701580	14444	183	186	99	5582515	701357
4778	935	908	97	5582136	701581	14445	225	225	99	5582514	701356
4878	786	761	96	5582304	701602	14446	123	130	99	5582513	701356
4949	144	162	99	5582186	701761	14476	26	38	99	5582495	701324
4950	196	211	99	5582186	701761	14477	32	42	99	5582495	701323
5194	70	60	85	5583080	702560	14597	86	98	99	5582461	701157
5250	1549	1484	95	5582602	701738	14664	98	98	99	5582385	701154
5384	445	430	96	5582432	701935	14665	51	55	99	5582386	701152
5385	735	706	96	5582430	701932	14736	37	43	99	5582423	701059
5824	26	24	93	5583210	702574	14737	49	54	99	5582424	701058
5901	280	240	85	5583223	702563	14751	114	119	99	5582451	701043

Record No.	HFR	LF	Rt	Northing	Easting	Record No.	HFR	LF	Rt	Northing	Easting
5902	49	49	99	5583223	702563	14858	180	180	99	5582471	700967
6325	64	66	99	5578637	705200	14859	181	180	99	5582470	700968
6326	30	34	99	5578638	705200	14881	254	250	98	5582433	700975
6470	11	21	99	5578854	705221	14932	28	30	99	5582368	700971
6471	58	62	99	5578854	705221	14956	118	118	99	5582332	700982
6481	208	209	99	5578864	705218	15227	18	22	99	5582240	700838
6583	250	248	98	5578999	705212	15413	2360	2289	96	5581652	701971
6706	101	99	98	5583282	702373	15495	635	659	99	5581882	702070
6707	28	36	99	5583282	702372	15533	224	268	99	5582004	702067
6712	35	43	99	5583283	702372	15792	188	232	99	5582629	702474
6742	70	74	99	5583306	702379	15827	2788	2703	96	5582746	702484
6752	255	237	93	5583312	702379	16025	224	246	99	5583330	702361
6824	55	53	96	5583374	702354	16334	65	95	99	5582616	702560
6825	48	43	88	5583374	702354	16453	90	103	99	5579378	706156
6965	325	339	99	5579751	705098	16469	11	13	99	5579386	706157
7472	460	457	99	5580504	705310	16684	18	26	99	5578792	706189
7479	512	513	99	5580513	705314	16685	190	189	99	5578792	706190
7550	598	606	99	5580511	705484	16686	190	189	99	5578791	706189
7601	59	94	99	5580379	705538	16827	57	62	99	5578726	706147
7602	134	165	99	5580378	705538	16828	59	63	99	5578726	706145
7703	70	107	99	5580185	705706	16829	58	63	99	5578726	706145
7723	13	41	99	5582085	702578	16830	16	25	99	5578726	706146
7746	11	40	99	5582089	702578	17147	15	20	99	5578522	706074
7804	522	525	99	5580032	705887	17148	20	24	99	5578523	706073
7805	97	123	99	5580030	705888	17271	23	19	82	5578511	705945
7906	11	21	99	5582123	702580	17354	217	216	99	5578458	705999
7919	12	22	99	5582126	702580	17355	728	700	96	5578457	705999
7920	11	22	99	5582126	702580	17719	1875	1804	96	5578989	705939
7921	12	22	99	5582126	702580	17720	17	52	99	5578990	705938
7924	14	23	99	5582129	702582	18013	919	851	92	5580037	705156
7925	12	21	99	5582129	702582	18402	104	124	99	5581972	703042
7941	17	25	99	5582139	702585	18547	26	69	99	5582126	702921
7998	1142	1119	98	5579779	706238	18549	11	60	99	5582126	702919
8001	495	514	99	5579780	706234	18569	11	60	99	5582138	702903
8002	573	587	99	5579778	706234	18578	24	77	99	5582149	702895
8003	571	585	99	5579778	706234	18590	27	81	99	5582146	702882
8024	21	28	99	5582159	702593	19192	247	204	82	5582154	702726
8025	20	27	99	5582159	702593	19411	42	57	99	5582076	702760
8029	12	26	99	5582160	702594	19512	62	82	99	5582063	702821
8032	25	34	99	5582159	702595	19530	254	226	89	5582072	702832
8033	26	38	99	5582159	702595	19727	173	159	91	5580253	704843
8034	16	28	99	5582159	702595	20040	984	909	92	5580030	705119
8035	15	27	99	5582160	702595	20618	3449	3101	89	5580018	705194
8036	12	27	99	5582160	702596	20635	153	170	99	5580028	705200
8039	10	28	99	5582161	702597	ND	177	159	89	5581628	702999
8105	22	28	99	5582166	702610	ND	1996	1913	95	5581181	703309

Record No.	HFR	LF	Rt	Northing	Easting	Record No.	HFR	LF	Rt	Northing	Easting
8116	6715	6450	96	5579374	705996	ND	4934	4705	95	5581978	703108
8117	14835	14104	95	5579374	705994	ND	2094	2029	96	5580051	703727
8118	3566	3393	95	5579372	705994	ND	3425	3291	96	5580053	703726
8119	2868	2739	95	5579371	705995	ND	989	958	96	5580788	703393
8123	303	364	99	5579375	705994	ND	2550	2456	96	5581465	702682
8124	167	231	99	5579375	705994	ND	1535	1497	97	5581886	703176
8125	628	662	99	5579375	705994	ND	568	562	98	5580789	703393
8132	11	26	99	5582170	702614	ND	516	509	98	5581042	703349
8133	15	28	99	5582170	702613	ND	406	403	99	5581115	703330
8155	12	32	99	5582174	702608	ND	303	309	99	5580625	703187

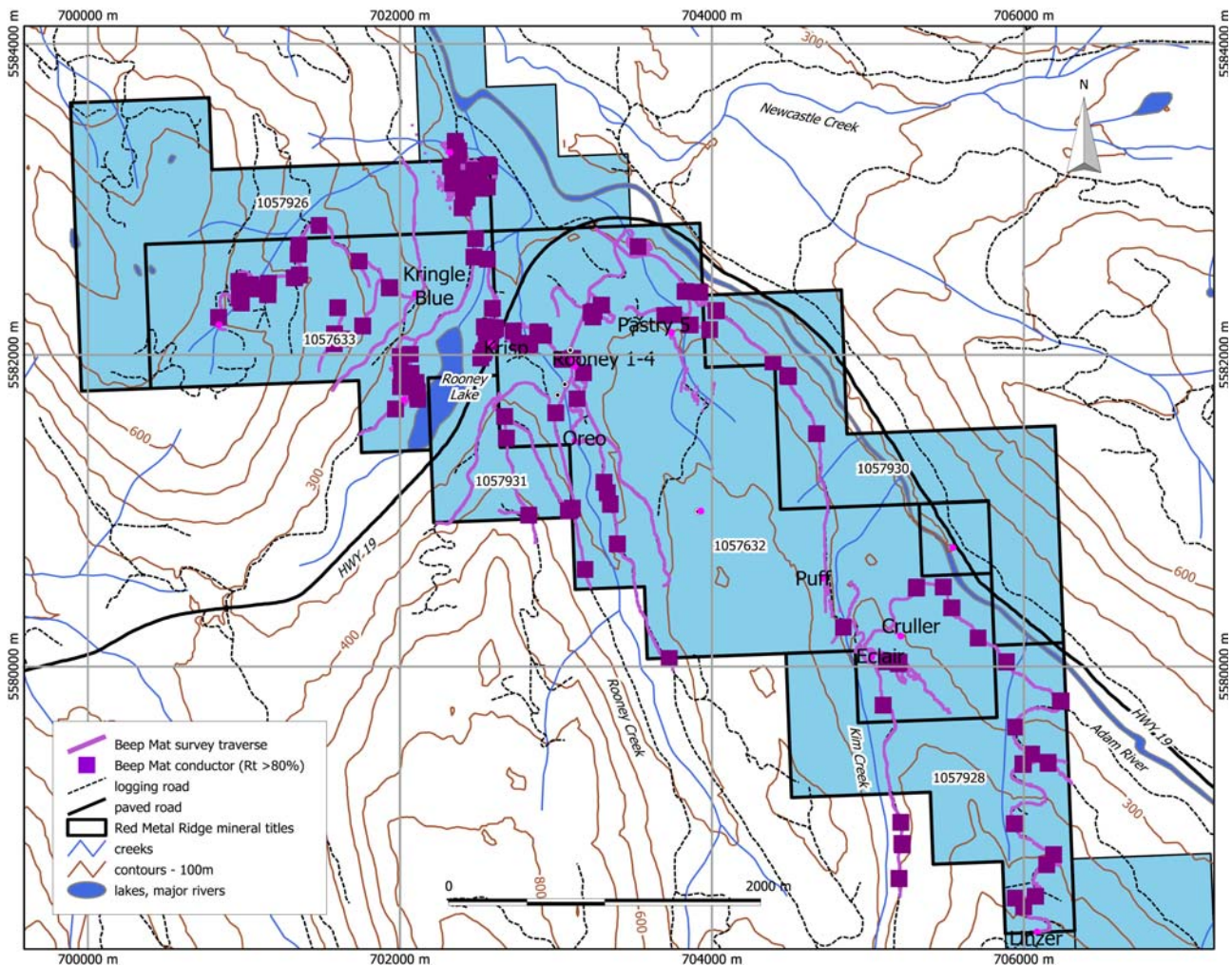


Figure 17. Beep Mat survey lines and location of strong conductors (purple squares) with Rt (Ratio) values >80%. Map produced by D.G. MacIntyre from survey data provided by Rich River Exploration, September, 2018.

8.4 Prospecting and Trenching

In 2018 Rich River Exploration prospected and sampled an area of approximately 818 hectares as shown in Figure 18. Prospecting was done off of existing logging roads. As described in a previous section 32 rock samples were collected from mineralized outcrop located during the prospecting program. Where bedrock was not well exposed hand trenches were dug. The hand trenches are listed and described in Table 8 and their locations are shown of Figure 18. A total of 22 trenches were completed. The trenches vary in size from 2 to 3 square metres and were dug to depths of 0.5 metres on average.

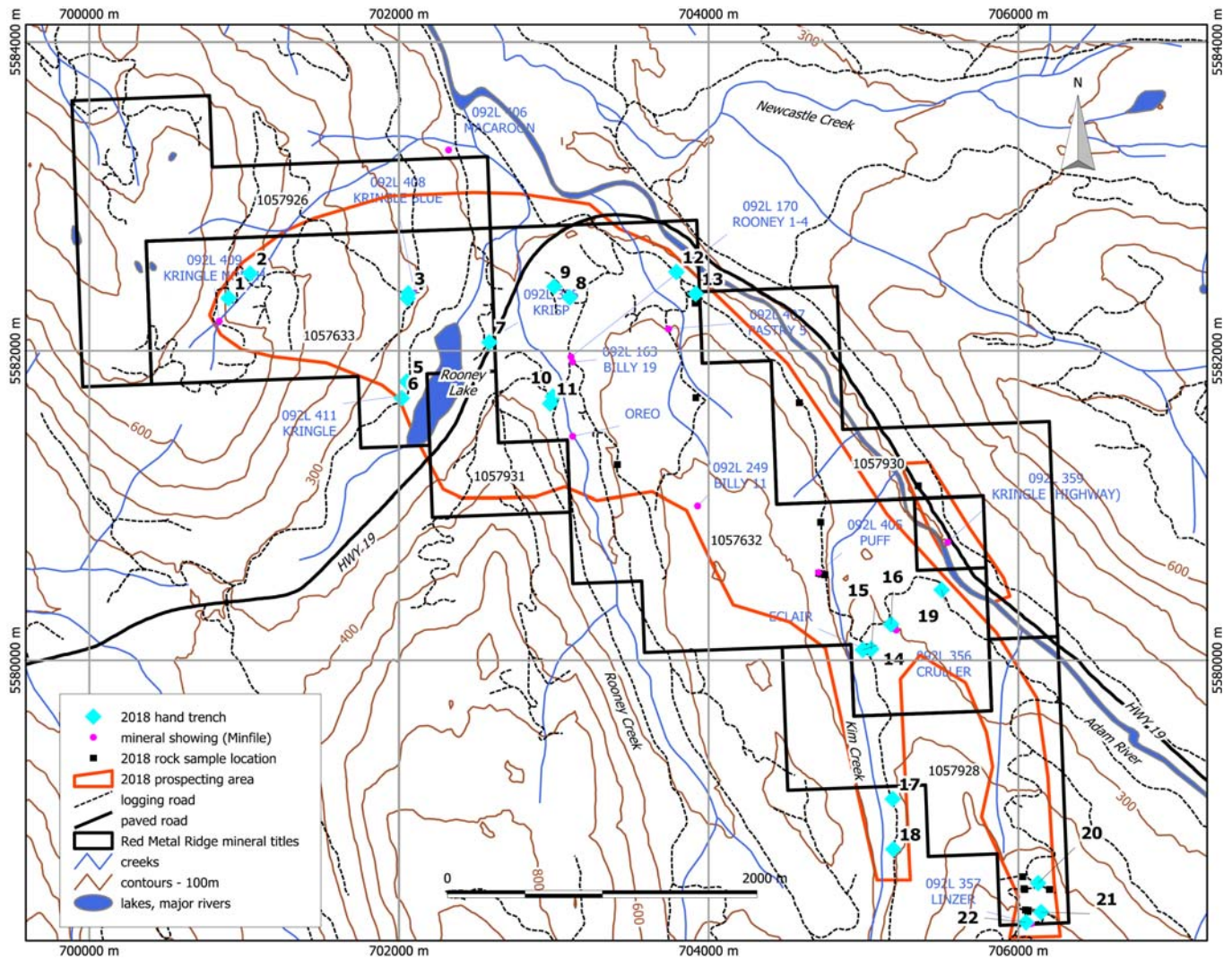


Figure 18. Location of hand trenches, rock samples and area prospected in 2018. Map prepared by D.G. MacIntyre from data supplied by Rich River Exploration.

Table 8. List of hand trenches completed in 2018 by Rich River Exploration.

No.	Easting	Northing	Size	Description
1	700900	5582342	1 x 2 m	Kringle North area - - road cut - weak pyrite in quartz veins
2	701039	5582501	1 x 2 m	Kringle North area - - road cut - weak pyrite
3	702061	5582373	1 x 2 m	Kringle Blue zone - weak chalcopyrite in outcrop and float
4	702057	5582340	1 x 2 m	Kringle Blue zone - weak chalcopyrite in intrusive outcrop
5	702051	5581801	1 x 2 m	Kringle 40 zone - granitic outcrops with weak pyrite, minor chalcopyrite
6	702018	5581694	1 x 2 m	Kringle 40 zone - weak pyrite, minor chalcopyrite
7	702584	5582056	1 x 2 m	Shear zone - in Highway road cut - disseminated chalcopyrite, malachite stain
8	703103	5582346	1 x 3m	Rooney/Krisp zone - quarry shear zone with malachite stain 1-5% chalcopyrite
9	703002	5582416	1 x 2 m	Rooney/Krisp zone - quarry face, malachite stain
10	702995	5581705	1 x 2 m	Billy Showing area - weak malachite stain in intrusives
11	702977	5581659	1 x 2 m	Oreo area - weak malachite stain in intrusives
12	703792	5582511	1 x 2 m	Pastry zone - disseminated chalcopyrite in intrusives
13	703917	5582370	1 x 2 m	Pastry zone - weak disseminated chalcopyrite in intrusives
14	704996	5580068	1 x 2 m	Billy Showing area - weak malachite stain in intrusives
15	705050	5580073	1 x 2 m	Billy Showing area - weak malachite stain in intrusives
16	705178	5580233	1 x 2 m	Billy Showing area - malachite stain in intrusives
17	705189	5579102	1 x 3 m	Eclair Showings - massive chalcopyrite veins and shears in Volcanic East zone
18	705193	5578777	1 x 3 m	Eclair Showings - massive chalcopyrite veins and shears in Volcanic West zone
19	705505	5580456	1 x 2 m	Cruller zone - skarn chalcopyrite, magnetite - limestone, volcanics
20	706128	5578557	1 x 2 m	Linzer East Spur Rd - chalcopyrite and pyrite in veins and shears
21	706147	5578369	1 x 3m	Linzer West Spur Rd - chalcopyrite and pyrite in veins and shears
22	706050	5578303	1 x 2 m	Linzer rock cuts - massive chalcopyrite and pyrite in veins and shears

9 Drilling

Only limited diamond drilling has been done on the Red Metal Ridge Property and this work is described in the History section of this report. No recent diamond drilling has been done on the Property which is still in the early stages of exploration.

10 Sample Preparation, Analyses and Security

The evaluation of the Red Metal Ridge Property is partially based on historical data derived from British Columbia Mineral Assessment Reports and other regional reports. Rock sampling and assay results are critical elements of this review. The description of sampling

techniques utilized by previous workers is described in the assessment reports, in particular for the work done by M. Schau between 2003 and 2013. The historical work done on the property was done by reputable exploration companies or individuals and the author is confident that followed industry best practises applicable at the time were followed in the collection and preparation of samples.

The following information describes the sample preparation, analyses and security procedures used for geochemical surveys conducted on the property in 2018 by Rich River Exploration.

All soil sample sites were marked in the field with labelled pink flagging tape. Field notes for each sample site were logged and recorded. The locations were determined using a handheld GPS. Where possible samples were collected from the B soil horizon. The samples were placed in kraft paper bags and stored securely prior to shipping to the ALS Minerals laboratory (“ALS”) in North Vancouver.

Rock samples collected in 2018 were placed in labelled plastic bags, with a label also placed within the bag. Field notes and GPS location coordinates were recorded for each sample sites. Both grab samples and chip samples were collected. The rock samples were shipped directly to the ALS.

The security procedures followed by personnel working on the Property in 2018 are deemed to be appropriate for the type of sampling being done. Samples were not left unattended and were kept secure in vehicles and hotel rooms until they could be shipped directly to ALS. The author is confident that the samples were kept secure and that they were not tampered with prior to arriving at the ALS Minerals laboratory.

ALS is an ISO17025:2005 accredited analytical laboratory. At the lab, samples are crushed to 70% less than 2 millimetres in size. A 250 gram subsample is riffle split off and pulverized to better than 75% passing 75 microns. A prepared sample (0.50 grams) is digested with aqua regia in a graphite heating block. After cooling, the resulting solution is diluted with deionized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry (ICP-AES) for 51 elements (ME MS41 package). The upper and lower ranges of values that can be determined by this method are given in Table 9. Ore grade samples containing >10,000 ppm Cu were also analyzed by ICP-AES to quantify the Cu content to a percentage level (Cu-OG46 assay procedure). For these a prepared sample is digested in 75% aqua regia for 120 minutes. After cooling the resulting solution is diluted to 100 ml with de-ionized water, mixed and analyzed by ICP-AES. The results are reported in percent rather than ppm. The upper limit for this method is 20% for Cu.

ALS performs quality assurance procedures that include repeat sampling and insertion of blank and/or standard samples for the purpose of data verification. ALS runs standards and provides re-samples at varying intervals for each sample shipment analysed. . In the author’s opinion the analytical procedures used to determine the concentrations of base and precious metals in the samples submitted was appropriate. The quality control employed by ALS indicates a high level of precision and accuracy in the analytical results.

Table 9. Upper and Lower limits for ICP-AES analyses (ALS ME MS41 package)

ANALYTES & RANGES (ppm)							
Ag	0.01-100	Cs	0.05-500	Mo	0.05-10,000	Sr	0.2-10,000
Al	0.01-25%	Cu	0.2-10,000	Na	0.01%-10%	Ta	0.01-500
As	0.1-10,000	Fe	0.01%-50%	Nb	0.05-500	Te	0.01-500
Au*	0.2-25	Ga	0.05-10,000	Ni	0.2-10,000	Th	0.2-10,000
B	10-10,000	Ge	0.05-500	P	10-10,000	Ti	0.005%-10%
Ba	10-10,000	Hf	0.02-500	Pb	0.2-10,000	Tl	0.02-10,000
Be	0.05-1,000	Hg	0.01-10,000	Rb	0.1-10,000	U	0.05-10,000
Bi	0.01-10,000	In	0.005-500	Re	0.001-50	V	1-10,000
Ca	0.01%-25%	K	0.01%-10%	S	0.01%-10%	W	0.05-10,000
Cd	0.01-1,000	La	0.2-10,000	Sb	0.05-10,000	Y	0.05-500
Ce	0.02-500	Li	0.1-10,000	Sc	0.1-10,000	Zn	2-10,000
Co	0.1-10,000	Mg	0.01%-25%	Se	0.2-1,000	Zr	0.5-500
Cr	1-10,000	Mn	5-50,000	Sn	0.2-500		

11 Data Verification

The author visited the Property on April 25, 2018. During this visit rock sample sites at the Eclair quarry locality and nearby soil sample sites were examined (Photo 2). These were clearly marked and appropriately labelled. The rock sample sites were located in bedrock exposed in the back walls of the quarry. This material was well mineralized with visible malachite and azurite staining on fracture surfaces (Photo 3). Chalcopyrite and pyrite were observed in sheared quartz veins and as disseminations. The material being collected at the sample sites that were examined was representative of the extent and intensity of mineralization observed at each site. The analytical results for these samples are consistent with the intensity of mineralization observed in outcrop. The author also independently took GPS readings at each site as a check on the location accuracy being recorded by field personnel. The results were nearly identical. Overall the density and distribution of sample sites was adequate for the purpose of showing the extent and grade of mineralization exposed on surface. The analytical results obtained in 2018 were similar to those determined

by previous operators and in the author's opinion these results give an accurate indication of the grade of mineralization that occurs in outcrop at the sampled localities.



Photo 2. The author examining mineralized outcrop and Rich River Exploration sample site 34507 at the Eclair showing quarry locality, Red Metal Ridge Property. Photo taken April 25, 2018 by field assistant J. MacIntyre.



Photo 3. Green malachite staining in outcrop at sample site 34507, Eclair showing. This sample site returned 5.27% Cu and 24 ppm Ag. Photo taken by the author, April 25, 2018.

12 Adjacent Properties

There are two adjacent properties covering two Minfile showings respectively – Kringle (Highway) and Macaroon. These showings are described in the Property Geology and Mineral Occurrences section of this report. The Kringle (Highway) showing is situated on Mineral Title 1061860 which is held by Mr. Dorian Leslie. This mineral title is surrounded by mineral titles that comprise the Property (Figure 3). The Macaroon showing is covered by Mineral Title 1056074 which is held by Mr. David Wayne Hendrick. This mineral title is adjacent to the northern boundary of the Property (Figure 3).

13 Interpretation and Conclusions

Work done on the Red Metal Ridge Property in 2018 has confirmed the presence of a number of high grade Cu \pm Ag showings hosted by Upper Triassic Karmutsen basalt. These showings are best classified as Cu-Ag vein showings (B.C. Mineral Deposit Profile I06) and are most likely related to emplacement of a granodioritic intrusion in mid Jurassic time. Presently this intrusion is exposed northeast of the Adam River but may also underlie the

Property at depth as well. Alternatively the Red Metal Ridge Property showings could be related to hydrothermal activity directly associated with eruption of Karmutsen volcanics but in the author's opinion this is a less likely scenario. Clearly the showings on the property are emplaced along fractures or faults that have subsequently been disrupted by post mineral shearing. The timing of this shearing is currently unknown but could be quite recent.

The showings found to date, although very high grade, are not of sufficient size to support a mining operation. Future work on the property needs to focus on locating an area where the density of veining is sufficient to support a small open pit operation or alternatively to locate a vein that is of sufficient width and continuity to support an underground mining operation. With this in mind the area north of the Linzer showing may hold the best potential given the number of showings located in this area.

Soil sampling along logging roads has detected an area of anomalous concentrations of Cu in soil near the Puff and Eclair showings. The significance of these anomalies is difficult to determine as the samples were only taken along the road and the extent of anomalous soils beyond the road is unknown.

A number of strong conductors were also located by the Beep Mat survey. These should be followed up with hand or excavator trenching as they may be related to concentrations of sulphide minerals in near surface float or bedrock.

14 Recommendations

In the author's opinion the Red Metal Ridge Property continues to be a property of merit and additional exploration expenditures are warranted. Numerous high grade Cu \pm Ag showings have been detected on the property. New logging roads continue to expose new occurrences of Cu-Ag veins. Following up on the work done in 2018, the author recommends a Phase 1 exploration program focussed on additional soil sampling and coincident magnetometer survey. In particular, the extent of anomalous soils located near the Puff and Eclair showings needs to be determined. It is recommended that a soil sampling grid with line spacing of 100 metres and sample intervals of 25 metres be established to cover the area that would include the Puff, Eclair and Cruller showings. Given the density of underbrush it may be necessary to cut lines in order to facilitate sampling. A magnetometer or Beep Mat survey on the same grid would also be useful. Similarly, the area north of the Linzer showing should also be covered by a soil sampling and magnetometer grid. The objective of these surveys is to try to determine the extent of subsurface mineralization beyond the current known showings, all of which are located in road cuts or quarries along logging roads. Depending on the results

of the recommended soil/magnetometer surveys a Phase 2 program would involve additional work in the form of IP or EM ground geophysics.

15 References

- Carlisle, D., 1972. Late Paleozoic to mid Triassic sedimentary-volcanic sequence of northeastern Vancouver Island; in Report of Activities, Nov-March 1972, GSC Paper 72-1B, pg 22-29.
- Carson D.J.T., 1973. Late Paleozoic to mid Triassic Sedimentary-volcanic Sequence of Northeastern Vancouver Island; in Report of Activities, Nov.-March 1972, GSC Paper 72-1B, pp. 22-29.
- Carson, D. J.T. 1968. Metallogenic Study of Vancouver Island with Emphasis on the Relationships of Mineral Deposits to Plutonic Rocks; Ph.D. Thesis, Carleton University.
- Clapp, C.H. 1912. Southern Vancouver Island; GSC Memoir 13.
- Lefebure, D.V. 1996. Cu[±]- Ag Quartz Veins, in Selected British Columbia Mineral Deposit Profiles, Volume 2 - Metallic Deposits, Lefebure, D.V. and Høy, T., Editors, British Columbia Ministry of Employment and Investment, Open File 1996-13, pp. 71-74.
- Massey, N.W.D., MacIntyre, D.G. and Desjardins, P.J., 2003. Digital Map of British Columbia: Tile NM10 (Southwest BC), B.C. Ministry of Energy and Mines, Geofile 2003-03.
- Muller, J. E. 1977. Geology of Vancouver Island (West Half) ; GSC Open File 463.
- Muller, J. E. 1980. The Paleozoic Sicker Group of Vancouver Island, British Columbia; GSC Paper 79-30.
- Peters, L.J., 1988. Report on Geological, Geochemical and Geophysical Survey on the Adam Claims Property, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 18255, 55p.
- Richardson, P.W., 1969. Rock Sampling and Geochemical Survey of Rooney Group, Adam River Area, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 1859, 10p.
- Schau, M. 2006. Prospectors Report on the Kringle-Consolidated (northern portion) claims north of Rooney Lake, Adam River Area, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 28,328, 48p.
- Schau, M. 2006a. Prospectors Report on the Kringle-Consolidated Claims 515029 and 521073 south-south-east of Rooney Lake and mainly west of Adam River, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 28,747, 52p.
- Schau, M. 2007. Report on some Veins and Alterations (preliminary petrography, magnetic susceptibility and density studies) of Kringle-consolidated Claims, Tlowils Lake to Rooney

- Lake Area, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 28,927, 94p.
- Schau, M. 2009. Assessment Report – Focus on Dyke Suites in the northern part of Kringle-consolidated Claim Group, Rooney Lake Area, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 31,039, 110p.
- Schau, M. 2010. Assessment Report – Assay and Lithochemistry of Veins and stratabound sulphides, Kim Creek 106D4 region, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 31,856, 106p.
- Schau, M. 2011. Assessment Report including Petrography, Lithochemistry, Assays and Geochemistry on the Kringle-Consolidated Claim Group, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 32,553, 268p.
- Schau, M. 2011. Assessment Report including Petrography, Lithochemistry, Assays and Geochemistry on the Kringle-Consolidated Claim Group, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 32,553, 268p.
- Schau, M. 2012. Assessment Report including Petrography, Lithochemistry, and Magnetic Studies on the Kringle-Consolidated Claim Group, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 33,012, 63p.
- Schau, M. 2013. Assessment Report including More Petrography, Lithochemistry, and Magnetic Studies on the Kringle-Consolidated Claim Group, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 34,183, 84p.
- Schau, M., 2002, Report on the Preliminary geology, petrography and petrophysics of the Kringle Group of claims, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 26930, 84p.
- Schau, M., 2003, Report on the Preliminary geology and petrography of the Puff Group of claims with special attention to discovery quarry, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 27070, 81p.
- Schau, M., 2004, Report of the Preliminary Geology and Lithochemistry of the Pastry, Macaroon and Oreo Claims with Special Attention to New Showings, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 27,463, 70p.
- Schau, M., 2005. A prospectors Report on the Krisp 1-6 claims, Adam River Area, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 27,736, 56p.
- Sheppard, E. P., 1977. Geological Report on Sayward Explorations Ltd. Billy Claims Group, Sayward area, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 3795, 23p.
- Wilmot, A.D., 1970. Report Covering Magnetometer and Geochemical Survey on the CV and Plus Claim Groups, Adam River Area, B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report 2379, 12p.

16 Statement of Expenditures

Personnel / Position	Field Days	# Days	Rate	Sub Total	Total
Craig Lynes / Prospector	Apr. 12-18/18	07 days	\$600.00	\$4,200.00	
Dusty Ruggles Geo Tech	Apr. 12-18/18	07 days	\$550.00	\$3,850.00	
James Taylor Labourer	Apr. 12-18/18	07 days	\$400.00	\$2,800.00	
Ian Cassidy Geo. Tech	Mar 18-Apr. 10	24 days	\$550.00	\$13,200.00	
Alan Stark/ Field Tech.	Mar 18-Apr. 10	24 days	\$550.00	\$13,200.00	
LABOUR					\$37,250.00
EXPENCES					
Meals /Accommodation Travel - 62 person days	Apr. 12-18/18	14 person days			
	Mar 18-Apr. 10	62 days	\$160.00		\$9,920.00
Truck Rental 2 4x4 vehicles		31 Days	\$200.00 each		\$12,400.00
Fuel/oil/vehicle/ Ferries					\$2,325.96
Assay Costs / shipping/ handling					\$10,258.45
Equipment rental- Radio's Chainsaws, Sat Phone etc.		31 days	\$100.00		\$3,100.00
Consumables Bags, Tags Batteries etc.					\$265.16
Data Compilation Office and Reporting					\$4,800.00
PROGRAM TOTAL					\$80,319.57

17 Certificate of Author

I, Donald George MacIntyre, Ph.D., P.Eng., do hereby certify that:

1. I am an independent consulting geologist providing services through D.G. MacIntyre and Associates Ltd. a wholly owned company incorporated December 10, 2004 in the Province of British Columbia (registration no. BC0710941). My residence and business address is 4129 San Miguel Close, Victoria, British Columbia, Canada, V8N 6G7.
2. I graduated with a B.Sc. degree in geology from the University of British Columbia in 1971. In addition, I obtained M.Sc. and Ph.D. degrees specializing in Economic Geology from the University of Western Ontario in 1975 and 1977 respectively.
3. I have been registered with the Association of Professional Engineers and Geoscientists of British Columbia since September, 1979, registration number 11970. I am a Fellow of the Geological Association of Canada and a member of the British Columbia Association for Mineral Exploration.
4. I have practiced my profession as a geologist, both within government and the private sector, in British Columbia and parts of the Yukon for over 35 years. Work has included detailed geological investigations of mineral districts, geological mapping, mineral deposit modeling and building of geoscientific databases. I have directly supervised and conducted geologic mapping and mineral property evaluations, published reports and maps on different mineral districts and deposit models and compiled and analyzed data for mineral potential evaluations.
5. I am responsible for all sections of the assessment report titled “Assessment Report: Red Metal Ridge Mineral Property, Vancouver Island, British Columbia, Canada” dated March 8, 2019 (the “Assessment Report”). Sections not written by myself are noted in the text.

Dated this 8th day of March, 2019.



D.G. MacIntyre, Ph.D. P.Eng.

Appendix A – Soil sample descriptions

Station No.	DATE	TIME	Easting	NORTHING	Altitude	AREA	DEPTH
SS01	04/01/2018	10:13:25	705,023	5,580,055	326	LOGGED	25
SS02	04/01/2018	10:17:28	705,045	5,579,999	327	LOGGED	20
SS03	04/01/2018	10:19:14	705,069	5,579,955	329	LOGGED	25
SS04	04/01/2018	10:24:14	705,076	5,579,903	331	LOGGED	20
SS05	04/01/2018	10:29:12	705,080	5,579,852	335	LOGGED	20
SS06	04/01/2018	10:31:54	705,086	5,579,802	337	LOGGED	20
SS07	04/01/2018	10:35:35	705,105	5,579,757	342	LOGGED	20
SS08	04/01/2018	10:37:59	705,140	5,579,722	350	LOGGED	20
SS09	04/01/2018	10:43:38	705,160	5,579,675	354	LOGGED	20
SS10	04/01/2018	12:32:44	705,184	5,579,621	354	LOGGED	15
SS11	04/01/2018	10:53:37	705,154	5,579,583	360	LOGGED	10
SS12	04/01/2018	10:56:47	705,127	5,579,543	367	LOGGED	15
SS13	04/01/2018	11:15:41	705,102	5,579,489	369	LOGGED	10
SS14	04/01/2018	1:03:59	705,111	5,579,434	372	LOGGED	25
SS15	04/01/2018	1:06:21	705,120	5,579,386	377	LOGGED	20
SS16	04/01/2018	1:31:10	705,005	5,580,102	331	LOGGED	25
SS17	04/01/2018	1:33:39	704,966	5,580,138	330	LOGGED	20
SS18	04/01/2018	1:37:44	705,002	5,580,171	328	LOGGED	25
SS19	04/01/2018	1:42:36	705,027	5,580,214	323	LOGGED	15
SS20	04/01/2018	1:45:50	705,072	5,580,234	315	LOGGED	10
SS21	04/01/2018	1:48:15	705,121	5,580,239	311	LOGGED	25
SS22	04/01/2018	1:50:23	705,165	5,580,264	303	LOGGED	25
SS23	04/01/2018	2:24:54	705,162	5,580,338	300	LOGGED	25
SS24	04/01/2018	2:26:31	705,133	5,580,378	300	LOGGED	25
SS25	04/01/2018	2:30:04	705,164	5,580,422	295	LOGGED	25
SS26	04/01/2018	2:31:18	705,212	5,580,429	290	LOGGED	25
SS27	04/01/2018	2:37:27	705,261	5,580,432	285	LOGGED	25
SS28	04/01/2018	2:39:39	705,300	5,580,463	278	LOGGED	25
SS29	04/01/2018	2:41:23	705,317	5,580,510	274	LOGGED	25
SS30	04/01/2018	2:43:37	705,356	5,580,540	273	LOGGED	25
SS31	04/01/2018	2:46:37	705,402	5,580,518	267	LOGGED	25
SS32	04/01/2018	2:49:31	705,450	5,580,502	259	LOGGED	25
SS33	04/02/2018	9:48:37	701,672	5,581,407	275	LOGGED	25
SS34	04/02/2018	9:52:26	701,714	5,581,449	274	LOGGED	20
SS35	04/02/2018	9:57:08	701,751	5,581,487	275	LOGGED	25
SS36	04/02/2018	9:58:40	701,791	5,581,522	275	LOGGED	20
SS37	04/02/2018	10:01:40	701,837	5,581,543	273	LOGGED	15
SS38	04/02/2018	10:05:00	701,876	5,581,585	268	LOGGED	15
SS39	04/02/2018	10:06:57	701,913	5,581,619	263	LOGGED	15
SS40	04/02/2018	10:14:43	701,951	5,581,649	260	LOGGED	10
SS41	04/02/2018	10:17:15	702,001	5,581,674	257	LOGGED	15
SS42	04/02/2018	10:34:07	702,042	5,581,705	257	LOGGED	15
SS43	04/02/2018	10:38:01	702,062	5,581,753	258	LOGGED	15
SS44	04/02/2018	10:45:11	702,069	5,581,803	259	LOGGED	10
SS45	04/02/2018	10:46:48	702,070	5,581,854	268	LOGGED	15
SS46	04/02/2018	10:56:14	702,068	5,581,913	271	LOGGED	10

Station No.	DATE	TIME	Easting	NORTHING	Altitude	AREA	DEPTH
SS47	04/02/2018	10:57:44	702,068	5,581,960	272	LOGGED	15
SS48	04/02/2018	11:17:21	702,070	5,582,014	271	LOGGED	10
SS49	04/02/2018	11:18:50	702,093	5,582,060	268	LOGGED	15
SS50	04/02/2018	11:26:01	702,116	5,582,104	267	LOGGED	15
SS51	04/02/2018	11:27:14	702,161	5,582,127	262	LOGGED	15
SS52	04/02/2018	11:29:29	702,199	5,582,154	261	LOGGED	15
SS53	04/02/2018	12:05:29	702,224	5,582,191	258	LOGGED	15
SS54	04/02/2018	12:04:18	702,246	5,582,230	254	LOGGED	20
SS55	04/02/2018	12:02:46	702,290	5,582,266	254	LOGGED	20
SS56	04/02/2018	1:03:52	702,346	5,582,270	253	LOGGED	25
SS57	04/02/2018	1:05:41	702,382	5,582,309	244	LOGGED	20
SS58	04/02/2018	1:07:17	702,402	5,582,355	235	LOGGED	25
SS59	04/02/2018	1:11:33	702,423	5,582,405	224	LOGGED	20
SS60	04/02/2018	1:14:53	702,438	5,582,456	216	LOGGED	20
SS61	04/02/2018	1:17:07	702,452	5,582,511	210	LOGGED	20
SS62	04/02/2018	1:19:54	702,447	5,582,571	206	LOGGED	20
SS63	04/02/2018	1:22:18	702,458	5,582,630	203	LOGGED	20
SS64	04/02/2018	2:27:05	702,466	5,582,681	200	LOGGED	25
SS65	04/02/2018	1:30:16	702,489	5,582,740	198	LOGGED	30
SS66	04/02/2018	2:09:09	702,461	5,582,793	197	LOGGED	40
SS67	04/02/2018	2:06:02	702,460	5,582,840	197	LOGGED	30
SS68	04/02/2018	2:04:25	702,446	5,582,890	196	LOGGED	45
SS69	04/03/2018	11:11:56	702,443	5,582,945	184	LOGGED	20
SS70	04/03/2018	11:25:51	702,440	5,583,006	192	LOGGED	25
SS71	04/03/2018	11:33:11	702,439	5,583,054	193	LOGGED	30
SS72	04/03/2018	11:34:25	702,442	5,583,106	194	LOGGED	20
SS73	04/03/2018	11:45:49	702,422	5,583,165	196	LOGGED	25
SS74	04/03/2018	11:47:03	702,408	5,583,219	195	LOGGED	30
SS75	04/03/2018	12:35:54	702,494	5,582,651	194	LOGGED	20
SS76	04/03/2018	12:39:27	702,553	5,582,626	210	LOGGED	15
SS77	04/03/2018	12:51:29	702,578	5,582,582	216	LOGGED	20
SS78	04/03/2018	1:05:53	702,563	5,582,521	218	LOGGED	10
SS79	04/03/2018	1:07:01	702,571	5,582,471	220	LOGGED	20
SS80	04/03/2018	1:19:53	702,584	5,582,419	219	LOGGED	10
SS81	04/03/2018	1:30:04	702,601	5,582,372	220	LOGGED	15
SS82	04/03/2018	1:41:01	702,597	5,582,323	226	LOGGED	10
SS83	04/03/2018	1:49:16	702,590	5,582,275	231	LOGGED	15
SS84	04/03/2018	1:55:17	702,564	5,582,233	236	LOGGED	10
SS85	04/03/2018	2:03:48	702,514	5,582,225	244	LOGGED	10
SS86	04/03/2018	2:14:10	702,519	5,582,174	245	LOGGED	5
SS87	04/03/2018	2:20:14	702,541	5,582,124	246	LOGGED	5
SS88	04/03/2018	2:26:00	702,546	5,582,058	245	LOGGED	5
SS89	04/03/2018	3:15:23	703,378	5,582,693	208	LOGGED	25
SS90	04/03/2018	3:18:56	703,383	5,582,643	216	LOGGED	20
SS91	04/03/2018	3:20:02	703,410	5,582,600	224	LOGGED	25
SS92	04/03/2018	3:21:50	703,433	5,582,553	231	LOGGED	35

Station No.	DATE	TIME	Easting	NORTHING	Altitude	AREA	DEPTH
SS93	04/03/2018	3:23:36	703,419	5,582,507	240	LOGGED	20
SS94	04/03/2018	3:25:11	703,367	5,582,509	242	LOGGED	10
SS95	04/03/2018	3:26:37	703,318	5,582,497	242	LOGGED	15
SS96	04/03/2018	3:41:18	703,278	5,582,465	238	LOGGED	15
SS97	04/03/2018	3:42:36	703,237	5,582,434	241	LOGGED	20
SS98	04/03/2018	3:44:16	703,214	5,582,390	242	LOGGED	15
SS99	04/03/2018	3:45:44	703,213	5,582,336	244	LOGGED	10
SS100	04/03/2018	3:47:10	703,190	5,582,290	244	LOGGED	30
SS101	04/03/2018	3:48:56	703,172	5,582,241	244	LOGGED	10
SS102	04/03/2018	3:50:28	703,156	5,582,194	246	LOGGED	10
SS103	04/03/2018	3:52:32	703,134	5,582,145	250	LOGGED	10
SS104	04/03/2018	3:54:24	703,114	5,582,098	252	LOGGED	20
SS105	04/03/2018	4:10:34	703,102	5,582,049	255	LOGGED	25
SS106	04/03/2018	4:12:53	703,097	5,582,004	253	LOGGED	25
SS107	04/04/2018	11:20:27	703,989	5,582,303	239	LOGGED	15
SS108	04/04/2018	11:23:29	704,030	5,582,272	236	LOGGED	20
SS109	04/04/2018	11:27:51	704,080	5,582,245	239	LOGGED	20
SS110	04/04/2018	11:31:23	704,122	5,582,211	239	LOGGED	25
SS111	04/04/2018	11:34:25	704,167	5,582,175	241	LOGGED	25
SS112	04/04/2018	11:38:36	704,197	5,582,125	245	LOGGED	25
SS113	04/04/2018	11:44:42	704,229	5,582,083	252	LOGGED	25
SS114	04/04/2018	11:50:14	704,276	5,582,056	249	LOGGED	20
SS115	04/04/2018	11:57:25	704,321	5,582,030	249	LOGGED	20
SS116	04/04/2018	12:46:16	704,364	5,581,991	257	LOGGED	20
SS117	04/04/2018	12:48:09	704,398	5,581,958	251	LOGGED	35
SS118	04/04/2018	12:50:43	704,434	5,581,918	249	LOGGED	25
SS119	04/04/2018	12:57:42	704,471	5,581,875	248	LOGGED	25
SS120	04/04/2018	1:00:38	704,491	5,581,827	250	LOGGED	25
SS121	04/04/2018	1:06:18	704,516	5,581,780	253	LOGGED	25
SS122	04/04/2018	1:10:55	704,550	5,581,737	253	LOGGED	30
SS123	04/04/2018	1:16:33	704,586	5,581,690	254	LOGGED	30
SS124	04/04/2018	1:17:51	704,608	5,581,644	258	LOGGED	30
SS125	04/04/2018	1:22:49	704,641	5,581,601	262	LOGGED	30
SS126	04/04/2018	1:26:45	704,654	5,581,552	264	LOGGED	15
SS127	04/04/2018	1:32:10	704,674	5,581,501	265	LOGGED	25
SS128	04/04/2018	1:36:44	704,688	5,581,452	269	LOGGED	15
SS129	04/04/2018	1:40:03	704,691	5,581,399	274	LOGGED	20
SS130	04/04/2018	1:43:42	704,698	5,581,350	279	LOGGED	25
SS131	04/04/2018	1:47:42	704,695	5,581,296	287	LOGGED	25
SS132	04/04/2018	1:48:49	704,695	5,581,243	287	LOGGED	20
SS133	04/04/2018	1:54:22	704,706	5,581,190	294	LOGGED	25
SS134	04/04/2018	1:59:32	704,724	5,581,136	301	LOGGED	25
SS135	04/04/2018	2:02:30	704,736	5,581,089	305	LOGGED	25
SS136	04/04/2018	2:32:20	704,741	5,581,038	308	LOGGED	35
SS137	04/04/2018	2:39:29	704,745	5,580,988	315	LOGGED	25
SS138	04/04/2018	2:40:43	704,727	5,580,937	318	LOGGED	25

Station No.	DATE	TIME	Easting	NORTHING	Altitude	AREA	DEPTH
SS139	04/05/2018	9:50:55	704,725	5,580,885	310	LOGGED	15
SS140	04/05/2018	9:55:49	704,725	5,580,833	312	LOGGED	15
SS141	04/05/2018	9:59:01	704,726	5,580,780	313	LOGGED	15
SS142	04/05/2018	10:03:53	704,732	5,580,727	314	LOGGED	10
SS143	04/05/2018	10:13:36	704,730	5,580,671	314	LOGGED	10
SS144	04/05/2018	10:17:49	704,739	5,580,620	314	LOGGED	10
SS145	04/05/2018	10:20:31	704,743	5,580,570	311	LOGGED	10
SS146	04/05/2018	10:39:56	704,753	5,580,516	311	LOGGED	10
SS147	04/05/2018	10:44:19	704,766	5,580,471	308	LOGGED	10
SS148	04/05/2018	10:48:29	704,771	5,580,419	307	LOGGED	10
SS149	04/05/2018	10:56:24	704,784	5,580,360	301	LOGGED	10
SS150	04/05/2018	11:01:45	704,813	5,580,313	300	LOGGED	10
SS151	04/05/2018	11:06:06	704,860	5,580,291	302	LOGGED	10
SS152	04/05/2018	11:10:50	704,910	5,580,262	306	LOGGED	10
SS153	04/05/2018	11:15:24	704,925	5,580,226	310	LOGGED	10
SS154	04/05/2018	11:20:49	704,916	5,580,163	320	LOGGED	10
SS155	04/05/2018	11:50:15	705,499	5,580,483	258	LOGGED	20
SS156	04/05/2018	12:42:54	705,526	5,580,428	260	LOGGED	10
SS157	04/05/2018	12:45:45	705,542	5,580,383	255	LOGGED	10
SS158	04/05/2018	12:49:22	705,562	5,580,329	255	LOGGED	10
SS159	04/05/2018	12:53:24	705,603	5,580,309	257	LOGGED	10
SS160	04/05/2018	12:54:41	705,637	5,580,272	256	LOGGED	10
SS161	04/05/2018	12:59:22	705,680	5,580,234	257	LOGGED	10
SS162	04/05/2018	1:01:23	705,704	5,580,188	253	LOGGED	10
SS163	04/05/2018	1:04:30	705,750	5,580,158	253	LOGGED	10
SS164	04/05/2018	1:07:47	705,796	5,580,139	251	LOGGED	10
SS165	04/05/2018	1:10:27	705,834	5,580,101	249	LOGGED	10
SS166	04/05/2018	1:13:07	705,862	5,580,057	249	LOGGED	10
SS167	04/05/2018	1:15:47	705,911	5,580,020	249	LOGGED	10
SS168	04/05/2018	1:18:27	705,930	5,579,972	249	LOGGED	10
SS169	04/05/2018	1:21:07	705,982	5,579,969	249	LOGGED	10
SS170	04/05/2018	1:23:47	706,012	5,579,931	250	LOGGED	10
SS171	04/05/2018	1:26:28	706,047	5,579,896	251	LOGGED	10
SS172	04/05/2018	1:29:08	706,089	5,579,870	252	LOGGED	10
SS173	04/05/2018	1:31:48	706,147	5,579,859	256	LOGGED	10
SS174	04/05/2018	1:34:28	706,194	5,579,819	262	LOGGED	10
SS175	04/05/2018	1:37:08	706,236	5,579,784	263	LOGGED	10
SS176	04/05/2018	1:39:48	706,207	5,579,740	274	LOGGED	10
SS177	04/05/2018	1:42:28	706,155	5,579,740	279	LOGGED	10
SS178	04/05/2018	1:45:08	706,105	5,579,743	286	LOGGED	10
SS179	04/05/2018	1:47:48	706,057	5,579,729	292	LOGGED	10
SS180	04/05/2018	1:50:28	706,011	5,579,707	299	LOGGED	10
SS181	04/05/2018	1:53:08	705,977	5,579,665	304	LOGGED	10
SS182	04/05/2018	1:55:48	705,953	5,579,618	310	LOGGED	10
SS183	04/05/2018	1:58:29	705,944	5,579,566	320	LOGGED	10
SS184	04/05/2018	2:01:09	705,970	5,579,511	330	LOGGED	10

Station No.	DATE	TIME	Easting	NORTHING	Altitude	AREA	DEPTH
SS185	04/05/2018	2:03:49	706,043	5,579,386	336	LOGGED	10
SS186	04/05/2018	2:06:29	706,050	5,579,451	339	LOGGED	10
SS187	04/05/2018	2:09:09	706,084	5,579,413	343	LOGGED	10
SS188	04/05/2018	2:11:49	706,043	5,579,383	351	LOGGED	10
SS189	04/06/2018	9:52:17	705,993	5,579,372	346	LOGGED	20
SS190	04/06/2018	9:55:21	705,950	5,579,342	355	LOGGED	25
SS191	04/06/2018	10:02:20	705,937	5,579,289	364	LOGGED	10
SS192	04/06/2018	10:04:09	705,982	5,579,268	376	LOGGED	25
SS193	04/06/2018	10:08:01	706,032	5,579,240	385	LOGGED	25
SS194	04/06/2018	10:11:28	706,076	5,579,220	394	LOGGED	25
SS195	04/06/2018	10:16:17	706,120	5,579,195	401	LOGGED	25
SS196	04/06/2018	10:27:41	706,135	5,579,148	409	LOGGED	25
SS197	04/06/2018	10:29:38	706,093	5,579,116	417	LOGGED	25
SS198	04/06/2018	10:37:54	706,042	5,579,129	419	LOGGED	25
SS199	04/06/2018	10:39:37	705,991	5,579,123	423	LOGGED	25
SS200	04/06/2018	10:45:53	705,946	5,579,087	428	LOGGED	25
SS201	04/06/2018	11:00:29	705,917	5,579,040	440	LOGGED	25
SS202	04/06/2018	11:05:02	705,924	5,578,986	446	LOGGED	25
SS203	04/06/2018	11:08:52	705,963	5,578,949	456	LOGGED	25
SS204	04/06/2018	11:25:03	705,986	5,578,902	462	LOGGED	25
SS205	04/06/2018	11:28:18	706,038	5,578,888	469	LOGGED	25
SS206	04/06/2018	11:36:13	706,077	5,578,859	478	LOGGED	25
SS207	04/06/2018	11:39:08	706,125	5,578,830	483	LOGGED	25
SS208	04/06/2018	12:48:53	706,135	5,579,388	335	LOGGED	20
SS209	04/06/2018	12:51:49	706,174	5,579,356	336	LOGGED	20
SS210	04/06/2018	12:55:56	706,214	5,579,332	337	LOGGED	25
SS211	04/06/2018	2:15:11	703,113	5,581,954	250	LOGGED	20
SS212	04/06/2018	2:17:26	703,145	5,581,916	259	LOGGED	20
SS213	04/06/2018	2:21:03	703,185	5,581,884	260	LOGGED	15
SS214	04/06/2018	2:25:42	703,194	5,581,834	263	LOGGED	15
SS215	04/06/2018	2:28:21	703,184	5,581,784	268	LOGGED	15
SS216	04/06/2018	2:36:55	703,166	5,581,737	273	LOGGED	10
SS217	04/06/2018	2:38:05	703,184	5,581,687	279	LOGGED	20
SS218	04/06/2018	2:43:04	703,195	5,581,638	278	LOGGED	20
SS219	04/06/2018	2:47:57	703,222	5,581,595	283	LOGGED	20
SS220	04/06/2018	2:51:37	703,245	5,581,549	289	LOGGED	25
SS221	04/06/2018	2:57:49	703,271	5,581,501	297	LOGGED	20
SS222	04/06/2018	3:04:56	703,286	5,581,451	299	LOGGED	15
SS223	04/06/2018	3:25:00	703,284	5,581,401	294	LOGGED	15
SS224	04/06/2018	3:29:11	703,294	5,581,338	291	LOGGED	15
SS225	04/06/2018	3:30:24	703,302	5,581,289	290	LOGGED	15
SS226	04/06/2018	3:38:50	703,300	5,581,238	292	LOGGED	20
SS227	04/06/2018	3:40:55	703,307	5,581,187	289	LOGGED	20
SS228	04/06/2018	3:43:08	703,324	5,581,134	291	LOGGED	15
SS229	04/06/2018	4:00:12	703,331	5,581,088	294	LOGGED	25
SS230	04/06/2018	4:01:31	703,346	5,581,036	312	LOGGED	20

Station No.	DATE	TIME	Easting	NORTHING	Altitude	AREA	DEPTH
SS231	04/06/2018	4:05:54	703,361	5,580,986	317	LOGGED	20
SS232	04/06/2018	4:09:31	703,378	5,580,937	320	LOGGED	15
SS233	04/07/2018	9:57:21	703,389	5,580,888	298	LOGGED	15
SS234	04/07/2018	10:00:01	703,393	5,580,834	301	LOGGED	20
SS235	04/07/2018	10:04:24	703,400	5,580,757	304	LOGGED	25
SS236	04/07/2018	10:07:18	703,433	5,580,714	308	LOGGED	15
SS237	04/07/2018	10:13:44	703,476	5,580,691	318	LOGGED	25
SS238	04/07/2018	10:19:30	703,492	5,580,644	326	LOGGED	20
SS239	04/07/2018	10:20:22	703,496	5,580,594	333	LOGGED	30
SS240	04/07/2018	10:23:47	703,506	5,580,544	335	LOGGED	25
SS241	04/07/2018	10:26:59	703,511	5,580,491	338	LOGGED	20
SS242	04/07/2018	10:29:41	703,522	5,580,433	342	LOGGED	20
SS243	04/07/2018	10:34:16	703,536	5,580,377	348	LOGGED	15
SS244	04/07/2018	10:43:37	703,560	5,580,332	355	LOGGED	10
SS245	04/07/2018	10:48:14	703,581	5,580,294	358	LOGGED	10
SS246	04/07/2018	10:54:57	703,604	5,580,237	359	LOGGED	10
SS247	04/07/2018	10:58:12	703,627	5,580,195	360	LOGGED	10
SS248	04/07/2018	11:14:47	703,649	5,580,147	362	LOGGED	10
SS249	04/07/2018	11:16:22	703,678	5,580,101	369	LOGGED	10
SS250	04/07/2018	12:41:57	703,410	5,581,339	312	LOGGED	15
SS251	04/07/2018	12:44:24	703,394	5,581,389	309	LOGGED	15
SS252	04/07/2018	12:47:03	703,359	5,581,428	303	LOGGED	15
SS253	04/07/2018	12:49:37	703,323	5,581,464	300	LOGGED	15
SS254	04/07/2018	1:17:51	702,836	5,580,959	410	LOGGED	15
SS255	04/07/2018	1:19:10	702,815	5,580,999	401	LOGGED	15
SS256	04/07/2018	1:22:03	702,788	5,581,043	393	LOGGED	15
SS257	04/07/2018	1:25:05	702,759	5,581,084	387	LOGGED	15
SS258	04/07/2018	1:28:14	702,739	5,581,134	375	LOGGED	15
SS259	04/07/2018	1:31:30	702,724	5,581,183	369	LOGGED	15
SS260	04/07/2018	1:36:49	702,724	5,581,243	363	LOGGED	15
SS261	04/07/2018	1:38:11	702,723	5,581,291	362	LOGGED	15
SS262	04/07/2018	1:40:05	702,696	5,581,331	356	LOGGED	15
SS263	04/07/2018	1:45:24	702,681	5,581,381	348	LOGGED	15
SS264	04/07/2018	1:49:23	702,683	5,581,432	342	LOGGED	15
SS265	04/07/2018	1:57:00	702,683	5,581,482	338	LOGGED	15
SS266	04/07/2018	2:02:16	702,676	5,581,537	331	LOGGED	15
SS267	04/07/2018	2:07:53	702,669	5,581,589	324	LOGGED	15
SS268	04/07/2018	2:10:56	702,645	5,581,632	318	LOGGED	15
SS269	04/07/2018	2:15:15	702,604	5,581,664	308	LOGGED	25
SS270	04/07/2018	2:47:45	702,632	5,581,704	292	LOGGED	10
SS271	04/07/2018	2:49:33	702,670	5,581,735	283	LOGGED	10
SS272	04/07/2018	2:57:23	702,712	5,581,773	278	LOGGED	10
SS273	04/07/2018	2:58:31	702,749	5,581,806	273	LOGGED	10
SS274	04/07/2018	3:03:46	702,803	5,581,819	268	LOGGED	10
SS275	04/07/2018	3:05:13	702,856	5,581,807	264	LOGGED	10
SS276	04/07/2018	3:09:36	702,891	5,581,771	259	LOGGED	10

Station No.	DATE	TIME	Easting	NORTHING	Altitude	AREA	DEPTH
SS277	04/07/2018	3:24:53	702,923	5,581,745	258	LOGGED	20
SS278	04/07/2018	3:24:53	702,960	5,581,710	259	LOGGED	20
SS279	04/07/2018	3:24:53	702,949	5,581,657	260	LOGGED	20
SS280	04/07/2018	3:24:53	702,990	5,581,619	261	LOGGED	20
SS281	04/08/2018	10:44:03	702,351	5,580,969	367	LOGGED	25
SS282	04/08/2018	10:53:16	702,383	5,581,006	362	LOGGED	25
SS283	04/08/2018	10:55:46	702,416	5,581,047	361	LOGGED	25
SS284	04/08/2018	10:57:49	702,444	5,581,091	363	LOGGED	25
SS285	04/08/2018	11:00:29	702,465	5,581,137	358	LOGGED	25
SS286	04/08/2018	11:03:02	702,452	5,581,183	346	LOGGED	25
SS287	04/08/2018	11:06:48	702,439	5,581,232	336	LOGGED	25
SS288	04/08/2018	11:12:05	702,467	5,581,272	325	LOGGED	25
SS289	04/08/2018	11:14:07	702,490	5,581,315	313	LOGGED	25
SS290	04/08/2018	11:18:11	702,498	5,581,368	303	LOGGED	25
SS291	04/08/2018	11:23:00	702,496	5,581,423	294	LOGGED	25
SS292	04/08/2018	11:24:30	702,505	5,581,481	290	LOGGED	25
SS293	04/08/2018	11:27:55	702,518	5,581,535	289	LOGGED	25
SS294	04/08/2018	11:31:50	702,530	5,581,589	287	LOGGED	25
SS295	04/08/2018	11:33:56	702,549	5,581,632	286	LOGGED	25
SS296	04/08/2018	11:36:04	702,569	5,581,680	286	LOGGED	25
SS297	04/08/2018	11:42:27	702,604	5,581,723	282	LOGGED	25
SS298	04/08/2018	1:12:54	703,194	5,580,593	317	LOGGED	25
SS299	04/08/2018	1:21:19	703,188	5,580,654	321	LOGGED	25
SS300	04/08/2018	1:24:26	703,177	5,580,719	300	LOGGED	20
SS301	04/08/2018	1:25:56	703,159	5,580,772	299	LOGGED	20
SS302	04/08/2018	1:28:22	703,144	5,580,824	298	LOGGED	10
SS303	04/08/2018	1:32:46	703,140	5,580,876	299	LOGGED	25
SS304	04/08/2018	1:35:58	703,128	5,580,934	297	LOGGED	25
SS305	04/08/2018	1:38:22	703,121	5,580,986	292	LOGGED	25
SS306	04/08/2018	1:41:04	703,114	5,581,035	287	LOGGED	25
SS307	04/08/2018	1:44:34	703,108	5,581,084	282	LOGGED	25
SS308	04/08/2018	1:48:07	703,099	5,581,136	276	LOGGED	25
SS309	04/08/2018	1:50:39	703,084	5,581,185	272	LOGGED	15
SS310	04/08/2018	1:54:59	703,071	5,581,236	274	LOGGED	25
SS311	04/08/2018	1:59:53	703,054	5,581,290	272	LOGGED	25
SS312	04/08/2018	2:03:46	703,047	5,581,342	268	LOGGED	20
SS313	04/08/2018	2:08:06	703,034	5,581,392	264	LOGGED	20
SS314	04/08/2018	2:14:24	703,023	5,581,443	261	LOGGED	20
SS315	04/08/2018	2:20:07	703,010	5,581,488	255	LOGGED	20
SS316	04/08/2018	2:26:21	703,000	5,581,535	248	LOGGED	20
SS317	04/08/2018	3:32:20	701,767	5,582,606	376	LOGGED	20
SS318	04/08/2018	3:36:28	701,810	5,582,572	369	LOGGED	20
SS319	04/08/2018	3:38:23	701,851	5,582,548	362	LOGGED	20
SS320	04/09/2018	9:53:34	701,739	5,582,146	415	CLEAR CUT	10
SS321	04/09/2018	9:51:06	701,758	5,582,193	406	CLEAR CUT	10
SS322	04/09/2018	9:56:52	701,778	5,582,240	394	CLEAR CUT	25

Station No.	DATE	TIME	Easting	NORTHING	Altitude	AREA	DEPTH
SS323	04/09/2018	9:59:37	701,810	5,582,275	385	CLEAR CUT	25
SS324	04/09/2018	10:02:38	701,834	5,582,321	377	CLEAR CUT	25
SS325	04/09/2018	10:07:18	701,840	5,582,380	364	CLEAR CUT	25
SS326	04/09/2018	10:09:57	701,845	5,582,429	362	CLEAR CUT	30
SS327	04/09/2018	10:15:22	701,864	5,582,481	353	CLEAR CUT	30
SS328	04/09/2018	10:20:33	701,906	5,582,453	341	CLEAR CUT	30
SS329	04/09/2018	10:23:12	701,946	5,582,415	334	CLEAR CUT	25
SS330	04/09/2018	10:26:13	701,990	5,582,394	325	CLEAR CUT	15
SS331	04/09/2018	10:30:57	702,033	5,582,378	319	CLEAR CUT	10
SS332	04/09/2018	10:34:25	702,084	5,582,388	316	CLEAR CUT	15
SS333	04/09/2018	10:53:42	702,051	5,582,336	309	CLEAR CUT	20
SS334	04/09/2018	10:55:54	702,029	5,582,283	310	CLEAR CUT	20
SS335	04/09/2018	10:58:51	702,022	5,582,231	315	CLEAR CUT	20
SS336	04/09/2018	11:00:56	701,981	5,582,200	319	CLEAR CUT	20
SS337	04/09/2018	11:03:29	701,941	5,582,167	323	CLEAR CUT	35
SS338	04/09/2018	11:07:14	701,909	5,582,121	329	CLEAR CUT	20
SS339	04/09/2018	11:10:52	701,881	5,582,081	334	CLEAR CUT	20
SS340	04/09/2018	11:13:55	701,829	5,582,051	332	CLEAR CUT	20
SS341	04/09/2018	11:15:51	701,802	5,582,009	336	CLEAR CUT	20

Station No.	COLOUR	TYPE	HORIZON	Lab. No.	Ag ppm	Al %	As ppm	Au ppm	B ppm
SS01	RED BROWN	SOIL	B	RMR-18-SS-01	0.24	3.71	1.7	<0.02	<10
SS02	RED BROWN	SOIL	B	RMR-18-SS-02	0.09	3.95	1	<0.02	<10
SS03	RED BROWN	SOIL	B	RMR-18-SS-03	0.35	2.46	3.7	<0.02	<10
SS04	RED BROWN	SOIL	B	RMR-18-SS-04	0.13	0.14	2.6	<0.02	<10
SS05	RED BROWN	SOIL	B	RMR-18-SS-05	0.03	4.5	1	<0.02	<10
SS06	RED BROWN	SOIL	B	RMR-18-SS-06	0.17	5.35	1.1	<0.02	<10
SS07	RED BROWN	SOIL	B	RMR-18-SS-07	0.15	5.08	1.1	<0.02	<10
SS08	RED BROWN	SOIL	B	RMR-18-SS-08	0.19	5.52	1.7	<0.02	<10
SS09	RED BROWN	SOIL	B	RMR-18-SS-09	0.12	4.85	1.1	<0.02	<10
SS10	RED BROWN	SOIL	B	RMR-18-SS-10	0.17	5.65	1.2	0.03	<10
SS11	RED BROWN	SOIL	B	RMR-18-SS-11	0.06	3.96	1.1	<0.02	<10
SS12	RED BROWN	SOIL	B	RMR-18-SS-12	0.19	4.84	1.6	<0.02	<10
SS13	RED BROWN	SOIL	B	RMR-18-SS-13	0.09	9.31	1.5	<0.02	<10
SS14	RED BROWN	SOIL	B	RMR-18-SS-14	0.07	5.13	1.3	<0.02	<10
SS15	RED BROWN	SOIL	B	RMR-18-SS-15	0.09	4.94	1.1	<0.02	<10
SS16	RED BROWN	SOIL	B	RMR-18-SS-16	0.17	3.02	0.9	<0.02	<10
SS17	RED BROWN	SOIL	B	RMR-18-SS-17	0.06	0.36	1.2	<0.02	<10
SS18	RED BROWN	SOIL	B	RMR-18-SS-18	0.11	4.78	1.4	<0.02	<10
SS19	RED BROWN	SOIL	B	RMR-18-SS-19	0.11	7.82	1.4	<0.02	<10
SS20	RED BROWN	SOIL	B	RMR-18-SS-20	0.16	5.6	2.3	<0.02	<10
SS21	RED BROWN	SOIL	B	RMR-18-SS-21	0.15	4.6	1.5	<0.02	<10
SS22	RED BROWN	SOIL	B	RMR-18-SS-22	0.19	4.05	1.4	<0.02	<10
SS23	RED BROWN	SOIL	B	RMR-18-SS-23	0.18	6.15	1.9	<0.02	<10
SS24	RED BROWN	SOIL	B	RMR-18-SS-24	0.17	4.5	1.7	<0.02	<10
SS25	RED BROWN	SOIL	B	RMR-18-SS-25	0.1	1.97	2.2	<0.02	<10
SS26	RED BROWN	SOIL	B	RMR-18-SS-26	0.14	6.16	2	<0.02	<10
SS27	RED BROWN	SOIL	B	RMR-18-SS-27	0.05	8.36	2.9	<0.02	<10
SS28	RED BROWN	SOIL	B	RMR-18-SS-28	0.07	6.5	2.6	<0.02	<10
SS29	RED BROWN	SOIL	B	RMR-18-SS-29	0.08	0.57	0.8	<0.02	<10
SS30	RED BROWN	SOIL	B	RMR-18-SS-30	0.08	5.83	2.2	<0.02	<10
SS31	RED BROWN	SOIL	B	RMR-18-SS-31	0.07	2.13	2.6	<0.02	<10
SS32	RED BROWN	SOIL	B	RMR-18-SS-32	0.07	9.69	4.4	<0.02	<10
SS33	RED BROWN	SOIL	B	RMR-18-SS-33	0.11	3.83	2	<0.02	10
SS34	BROWN	SOIL	B	RMR-18-SS-34	0.18	5.88	1.2	<0.02	10
SS35	BROWN	SOIL	B	RMR-18-SS-35	0.17	5.54	0.9	<0.02	<10
SS36	BROWN	SOIL	B	RMR-18-SS-36	0.15	4.31	1.6	<0.02	10
SS37	BROWN	SOIL	B	RMR-18-SS-37	0.15	4.35	0.9	<0.02	<10
SS38	BROWN	SOIL	B	RMR-18-SS-38	0.05	3.9	1.4	<0.02	10
SS39	BROWN	SOIL	B	RMR-18-SS-39	0.05	2.73	1	<0.02	10
SS40	BROWN	SOIL	B	RMR-18-SS-40	0.11	4.92	0.7	0.03	<10
SS41	BROWN	SOIL	B	RMR-18-SS-41	0.07	5.97	1	<0.02	<10
SS42	BROWN	SOIL	B	RMR-18-SS-42	0.03	2.67	0.9	<0.02	<10
SS43	BROWN	SOIL	B	RMR-18-SS-43	0.19	3.21	0.7	<0.02	<10
SS44	BROWN	SOIL	B	RMR-18-SS-44	0.11	3.1	0.6	<0.02	<10
SS45	BROWN	SOIL	B	RMR-18-SS-45	0.1	3.97	0.7	<0.02	<10
SS46	BROWN	SOIL	B	RMR-18-SS-46	0.1	4.74	0.7	<0.02	<10

Station No.	COLOUR	TYPE	HORIZON	Lab. No.	Ag ppm	Al %	As ppm	Au ppm	B ppm
SS47	BROWN	SOIL	B	RMR-18-SS-47	0.13	3.83	0.6	<0.02	<10
SS48	BROWN	SOIL	B	RMR-18-SS-48	0.13	3.43	0.5	<0.02	10
SS49	BROWN	SOIL	B	RMR-18-SS-49	0.16	6.3	1.1	<0.02	<10
SS50	BROWN	SOIL	B	RMR-18-SS-50	0.13	4.62	1	<0.02	<10
SS51	BROWN	SOIL	B	RMR-18-SS-51	0.13	4.18	0.6	<0.02	<10
SS52	BROWN	SOIL	B	RMR-18-SS-52	0.07	4.99	0.8	<0.02	<10
SS53	BROWN	SOIL	B	RMR-18-SS-53	0.07	5.04	1.2	<0.02	10
SS54	BROWN	SOIL	B	RMR-18-SS-54	0.09	4.41	1.1	<0.02	<10
SS55	BROWN	SOIL	B	RMR-18-SS-55	0.16	4.78	1.3	<0.02	<10
SS56	BROWN	SOIL	B	RMR-18-SS-56	0.09	4.31	0.8	<0.02	<10
SS57	BROWN	SOIL	B	RMR-18-SS-57	0.03	4.1	0.6	<0.02	<10
SS58	BROWN	SOIL	B	RMR-18-SS-58	0.11	5.15	1	<0.02	<10
SS59	BROWN	SOIL	B	RMR-18-SS-59	0.06	3.94	1	<0.02	10
SS60	BROWN	SOIL	B	RMR-18-SS-60	0.07	3.93	0.8	<0.02	10
SS61	BROWN	SOIL	B	RMR-18-SS-61	0.16	5.67	1.3	<0.02	10
SS62	BROWN	SOIL	B	RMR-18-SS-62	0.14	5.3	1.2	<0.02	<10
SS63	RED BROWN	SOIL	B	RMR-18-SS-63	0.13	2.93	0.7	<0.02	<10
SS64	GRAY BROWN	SOIL	B	RMR-18-SS-64	0.05	5.27	3.7	<0.02	<10
SS65	BROWN	SOIL	B	RMR-18-SS-65	0.18	4.04	1.3	<0.02	<10
SS66	BROWN	SOIL	B	RMR-18-SS-66	0.18	3.65	1.1	<0.02	<10
SS67	GRAY BROWN	SOIL	B	RMR-18-SS-67	0.13	4.9	1.1	<0.02	<10
SS68	BROWN	SOIL	B	RMR-18-SS-68	0.25	4.6	1.2	<0.02	<10
SS69	BROWN	SOIL	B	RMR-18-SS-69	0.2	6.97	1.7	<0.02	<10
SS70	BROWN	SOIL	B	RMR-18-SS-70	0.24	5.2	1	<0.02	<10
SS71	BROWN	SOIL	B	RMR-18-SS-71	0.07	3.22	0.9	<0.02	<10
SS72	BROWN	SOIL	B	RMR-18-SS-72	0.17	4.19	1.7	<0.02	<10
SS73	BROWN	SOIL	B	RMR-18-SS-73	0.15	2.89	1	<0.02	<10
SS74	BROWN	SOIL	B	RMR-18-SS-74	0.07	5.5	1.3	<0.02	<10
SS75	BROWN	SOIL	B	RMR-18-SS-75	0.14	3.73	0.8	<0.02	<10
SS76	BROWN	SOIL	B	RMR-18-SS-76	0.15	4.08	1.2	<0.02	<10
SS77	BROWN	SOIL	B	RMR-18-SS-77	0.22	2.68	1	<0.02	<10
SS78	BROWN	SOIL	B	RMR-18-SS-78	0.11	5.57	0.6	<0.02	<10
SS79	RED BROWN	SOIL	B	RMR-18-SS-79	0.1	7	1.2	<0.02	<10
SS80	BROWN	SOIL	B	RMR-18-SS-80	0.09	3.5	0.8	<0.02	<10
SS81	GRAY BROWN	SOIL	B	RMR-18-SS-81	0.18	4.55	1.3	<0.02	<10
SS82	BROWN	SOIL	B	RMR-18-SS-82	0.02	3.4	1.3	<0.02	<10
SS83	GRAY BROWN	SOIL	B	RMR-18-SS-83	0.14	5.87	1.1	<0.02	<10
SS84	RED BROWN	SOIL	B	RMR-18-SS-84	0.15	4.91	0.7	<0.02	<10
SS85	RED BROWN	SOIL	B	RMR-18-SS-85	0.09	4.32	0.6	<0.02	<10
SS86	RED BROWN	SOIL	B	RMR-18-SS-86	0.13	8.23	1.4	<0.02	10
SS87	RED BROWN	SOIL	B	RMR-18-SS-87	0.18	4.55	0.6	<0.02	<10
SS88	RED BROWN	SOIL	B	RMR-18-SS-88	0.11	5.65	0.6	<0.02	<10
SS89	BROWN	SOIL	B	RMR-18-SS-89	0.14	3.88	0.8	<0.02	<10
SS90	GRAY BROWN	SOIL	B	RMR-18-SS-90	0.05	8.11	2.6	<0.02	<10
SS91	BROWN	SOIL	B	RMR-18-SS-91	0.06	7.85	2	<0.02	<10
SS92	BROWN	SOIL	B	RMR-18-SS-92	0.09	7.76	1.4	<0.02	<10

Station No.	COLOUR	TYPE	HORIZON	Lab. No.	Ag ppm	Al %	As ppm	Au ppm	B ppm
SS93	GRAY	SOIL	B	RMR-18-SS-93	0.05	2.65	1.5	<0.02	<10
SS94	GRAY	SOIL	B	RMR-18-SS-94	0.05	5.81	1.6	<0.02	<10
SS95	BROWN	SOIL	B	RMR-18-SS-95	0.04	4.22	1.2	<0.02	<10
SS96	BROWN	SOIL	B	RMR-18-SS-96	0.12	3.15	1.2	<0.02	<10
SS97	BROWN	SOIL	B	RMR-18-SS-97	0.04	3.38	1.5	<0.02	<10
SS98	GRAY	SOIL	B	RMR-18-SS-98	0.05	3.15	1.9	<0.02	<10
SS99	RED BROWN	SOIL	B	RMR-18-SS-99	0.26	5.33	0.4	<0.02	<10
SS100	RED BROWN	SOIL	B	RMR-18-SS-100	0.15	3.38	0.7	<0.02	<10
SS101	RED BROWN	SOIL	B	RMR-18-SS-101	0.08	4.83	0.6	<0.02	<10
SS102	RED BROWN	SOIL	B	RMR-18-SS-102	0.16	5.01	1	<0.02	<10
SS103	GRAY	SOIL	B	RMR-18-SS-103	0.11	4.54	1.1	<0.02	<10
SS104	GRAY	SOIL	B	RMR-18-SS-104	0.03	3.1	0.8	<0.02	10
SS105	GRAY	SOIL	B	RMR-18-SS-105	0.05	4.34	1.1	<0.02	10
SS106	GRAY	SOIL	B	RMR-18-SS-106	0.03	3.09	0.8	0.05	10
SS107	GRAY	SOIL	B	RMR-18-SS-107	0.06	4.67	3.9	<0.02	<10
SS108	GRAY	SOIL	B	RMR-18-SS-108	0.1	2.7	2.2	<0.02	<10
SS109	BROWN	SOIL	B	RMR-18-SS-109	0.06	5.81	8.1	<0.02	<10
SS110	BROWN	SOIL	B	RMR-18-SS-110	0.14	4.65	3.7	<0.02	<10
SS111	BROWN	SOIL	B	RMR-18-SS-111	0.06	5.71	3.1	<0.02	<10
SS112	BROWN	SOIL	B	RMR-18-SS-112	0.19	4	1.4	<0.02	<10
SS113	BROWN	SOIL	B	RMR-18-SS-113	0.09	2.97	1.3	<0.02	<10
SS114	BROWN	SOIL	B	RMR-18-SS-114	0.17	4.15	1.7	<0.02	10
SS115	BROWN	SOIL	B	RMR-18-SS-115	0.18	7.62	3.6	<0.02	<10
SS116	BROWN	SOIL	B	RMR-18-SS-116	0.1	5.93	5.2	<0.02	<10
SS117	RED BROWN	SOIL	B	RMR-18-SS-117	0.12	6.49	2.6	<0.02	<10
SS118	GRAY	SOIL	B	RMR-18-SS-118	0.18	3.77	2.2	<0.02	<10
SS119	GRAY	SOIL	B	RMR-18-SS-119	0.07	4.75	3.6	<0.02	<10
SS120	GRAY	SOIL	B	RMR-18-SS-120	0.11	4.85	3.9	<0.02	<10
SS121	RED BROWN	SOIL	B	RMR-18-SS-121	0.1	6.54	3.4	<0.02	<10
SS122	RED BROWN	SOIL	B	RMR-18-SS-122	0.12	6.65	2.4	<0.02	<10
SS123	RED BROWN	SOIL	B	RMR-18-SS-123	0.12	4.29	2.2	<0.02	<10
SS124	RED BROWN	SOIL	B	RMR-18-SS-124	0.11	6.6	2.4	<0.02	<10
SS125	RED BROWN	SOIL	B	RMR-18-SS-125	0.12	6.57	3.4	<0.02	<10
SS126	GRAY	SOIL	B	RMR-18-SS-126	0.03	3.28	2.2	<0.02	<10
SS127	BROWN	SOIL	B	RMR-18-SS-127	0.13	5.7	2.5	<0.02	<10
SS128	RED BROWN	SOIL	B	RMR-18-SS-128	0.06	3.72	1.4	<0.02	<10
SS129	RED BROWN	SOIL	B	RMR-18-SS-129	0.1	6.42	2.2	<0.02	<10
SS130	RED BROWN	SOIL	B	RMR-18-SS-130	0.11	7.04	1.9	<0.02	<10
SS131	RED BROWN	SOIL	B	RMR-18-SS-131	0.11	8.44	2.4	<0.02	<10
SS132	RED BROWN	SOIL	B	RMR-18-SS-132	0.12	6.94	2.3	<0.02	<10
SS133	RED BROWN	SOIL	B	RMR-18-SS-133	0.14	6.61	2.7	<0.02	<10
SS134	RED BROWN	SOIL	B	RMR-18-SS-134	0.06	8.51	4.8	<0.02	<10
SS135	BROWN	SOIL	B	RMR-18-SS-135	0.18	5.2	2.2	<0.02	<10
SS136	BROWN	SOIL	B	RMR-18-SS-136	0.34	2.21	3.7	<0.02	<10
SS137	BROWN	SOIL	B	RMR-18-SS-137	0.21	5.1	14.4	<0.02	<10
SS138	BROWN	SOIL	B	RMR-18-SS-138	0.3	4.18	8.4	<0.02	10

Station No.	COLOUR	TYPE	HORIZON	Lab. No.	Ag ppm	Al %	As ppm	Au ppm	B ppm
SS139	BROWN	SOIL	B	RMR-18-SS-139	0.12	7.33	2.1	<0.02	<10
SS140	BROWN	SOIL	B	RMR-18-SS-140	0.1	7.83	2	<0.02	<10
SS141	BROWN	SOIL	B	RMR-18-SS-141	0.12	5.31	1.1	<0.02	<10
SS142	BROWN	SOIL	B	RMR-18-SS-142	0.19	7.1	5.8	0.05	<10
SS143	BROWN	SOIL	B	RMR-18-SS-143	0.1	5.43	2.3	<0.02	<10
SS144	BROWN	SOIL	B	RMR-18-SS-144	0.16	4.15	3.9	<0.02	<10
SS145	BROWN	SOIL	B	RMR-18-SS-145	0.23	4.55	3.2	<0.02	10
SS146	BROWN	SOIL	B	RMR-18-SS-146	0.27	3.9	2.1	<0.02	10
SS147	BROWN	SOIL	B	RMR-18-SS-147	0.2	4.32	6.2	<0.02	<10
SS148	BROWN	SOIL	B	RMR-18-SS-148	0.25	3.3	1.1	<0.02	10
SS149	BROWN	SOIL	B	RMR-18-SS-149	0.07	3.59	1.3	<0.02	<10
SS150	BROWN	SOIL	B	RMR-18-SS-150	0.43	4.89	1.5	<0.02	<10
SS151	BROWN	SOIL	B	RMR-18-SS-151	0.09	5.75	1.1	<0.02	<10
SS152	BROWN	SOIL	B	RMR-18-SS-152	0.15	5.71	1.9	<0.02	<10
SS153	BROWN	SOIL	B	RMR-18-SS-153	0.1	5.61	1	<0.02	<10
SS154	BROWN	SOIL	B	RMR-18-SS-154	0.07	3.98	0.7	<0.02	<10
SS155	BROWN	SOIL	B	RMR-18-SS-155	0.1	6.89	4.5	<0.02	<10
SS156	BROWN	SOIL	B	RMR-18-SS-156	0.23	5.46	6.2	<0.02	<10
SS157	BROWN	SOIL	B	RMR-18-SS-157	0.05	7.82	4.1	<0.02	<10
SS158	RED BROWN	SOIL	B	RMR-18-SS-158	0.11	10.7	3.6	<0.02	<10
SS159	RED BROWN	SOIL	B	RMR-18-SS-159	0.05	8.61	3.9	<0.02	<10
SS160	RED BROWN	SOIL	B	RMR-18-SS-160	0.05	7.38	4.3	<0.02	<10
SS161	RED BROWN	SOIL	B	RMR-18-SS-161	0.08	5.33	2.9	<0.02	<10
SS162	RED BROWN	SOIL	B	RMR-18-SS-162	0.14	5.99	3.7	<0.02	<10
SS163	RED BROWN	SOIL	B	RMR-18-SS-163	0.1	7.49	4.6	<0.02	<10
SS164	RED BROWN	SOIL	B	RMR-18-SS-164	0.08	4.91	4	<0.02	<10
SS165	RED BROWN	SOIL	B	RMR-18-SS-165	0.13	5.81	3.5	<0.02	<10
SS166	RED BROWN	SOIL	B	RMR-18-SS-166	0.11	7.14	5.1	<0.02	<10
SS167	RED BROWN	SOIL	B	RMR-18-SS-167	0.12	12.85	4.9	<0.02	<10
SS168	GRAY	SOIL	B	RMR-18-SS-168	0.06	4.05	5.9	<0.02	<10
SS169	RED BROWN	SOIL	B	RMR-18-SS-169	0.09	6.98	5	<0.02	<10
SS170	RED BROWN	SOIL	B	RMR-18-SS-170	0.07	6.5	4.1	<0.02	<10
SS171	RED BROWN	SOIL	B	RMR-18-SS-171	0.15	6.1	4.7	<0.02	<10
SS172	RED BROWN	SOIL	B	RMR-18-SS-172	0.11	9.99	6.6	<0.02	<10
SS173	RED BROWN	SOIL	B	RMR-18-SS-173	0.35	7.48	5.2	<0.02	<10
SS174	RED BROWN	SOIL	B	RMR-18-SS-174	0.16	6.11	3.9	<0.02	<10
SS175	RED BROWN	SOIL	B	RMR-18-SS-175	0.1	6.39	4.2	<0.02	<10
SS176	BROWN	SOIL	B	RMR-18-SS-176	0.22	2.45	4.6	<0.02	<10
SS177	BROWN	SOIL	B	RMR-18-SS-177	0.17	5.71	4.6	<0.02	<10
SS178	BROWN	SOIL	B	RMR-18-SS-178	0.07	5.75	6.1	<0.02	<10
SS179	BROWN	SOIL	B	RMR-18-SS-179	0.1	6.41	4.5	<0.02	<10
SS180	RED BROWN	SOIL	B	RMR-18-SS-180	0.06	8.83	21.8	<0.02	<10
SS181	RED BROWN	SOIL	B	RMR-18-SS-181	0.13	5.04	2.1	<0.02	<10
SS182	RED BROWN	SOIL	B	RMR-18-SS-182	0.12	7.17	5.4	<0.02	<10
SS183	RED BROWN	SOIL	B	RMR-18-SS-183	0.12	6.8	5.1	<0.02	<10
SS184	RED BROWN	SOIL	B	RMR-18-SS-184	0.4	6.17	4.7	<0.02	<10

Station No.	COLOUR	TYPE	HORIZON	Lab. No.	Ag ppm	Al %	As ppm	Au ppm	B ppm
SS185	RED BROWN	SOIL	B	RMR-18-SS-185	0.06	6.4	3.8	<0.02	<10
SS186	RED BROWN	SOIL	B	RMR-18-SS-186	0.11	6.19	4.8	0.38	<10
SS187	RED BROWN	SOIL	B	RMR-18-SS-187	0.13	5.64	2	<0.02	<10
SS188	RED BROWN	SOIL	B	RMR-18-SS-188	0.15	4.97	1.4	<0.02	<10
SS189	RED BROWN	SOIL	B	RMR-18-SS-189	0.17	4.97	1.5	<0.02	<10
SS190	RED BROWN	SOIL	B	RMR-18-SS-190	0.11	5.15	1.1	<0.02	<10
SS191	RED BROWN	SOIL	B	RMR-18-SS-191	0.13	5.96	1.8	<0.02	<10
SS192	RED BROWN	SOIL	B	RMR-18-SS-192	0.1	5.68	1.7	<0.02	<10
SS193	RED BROWN	SOIL	B	RMR-18-SS-193	0.11	5.45	1.3	<0.02	<10
SS194	RED BROWN	SOIL	B	RMR-18-SS-194	0.05	4.74	1.3	0.03	<10
SS195	RED BROWN	SOIL	B	RMR-18-SS-195	0.07	5.96	1.6	<0.02	<10
SS196	RED BROWN	SOIL	B	RMR-18-SS-196	0.04	5.76	1.3	<0.02	<10
SS197	RED BROWN	SOIL	B	RMR-18-SS-197	0.08	4.7	1.2	<0.02	<10
SS198	RED BROWN	SOIL	B	RMR-18-SS-198	0.09	3.24	0.6	<0.02	<10
SS199	RED BROWN	SOIL	B	RMR-18-SS-199	0.04	8.6	1.4	<0.02	<10
SS200	RED BROWN	SOIL	B	RMR-18-SS-200	0.04	7.4	1.3	<0.02	<10
SS201	RED BROWN	SOIL	B	RMR-18-SS-201	0.05	8.03	2	<0.02	<10
SS202	RED BROWN	SOIL	B	RMR-18-SS-202	0.06	6.7	1.3	<0.02	<10
SS203	RED BROWN	SOIL	B	RMR-18-SS-203	0.07	2.91	0.8	<0.02	<10
SS204	RED BROWN	SOIL	B	RMR-18-SS-204	0.1	4.08	1.1	<0.02	<10
SS205	RED BROWN	SOIL	B	RMR-18-SS-205	0.08	4.98	1.1	<0.02	<10
SS206	RED BROWN	SOIL	B	RMR-18-SS-206	0.06	6.34	1.2	<0.02	<10
SS207	RED BROWN	SOIL	B	RMR-18-SS-207	0.07	3.38	1.1	<0.02	<10
SS208	RED BROWN	SOIL	B	RMR-18-SS-208	0.08	5.14	1.9	<0.02	<10
SS209	RED BROWN	SOIL	B	RMR-18-SS-209	0.08	5.67	2.7	<0.02	<10
SS210	RED BROWN	SOIL	B	RMR-18-SS-210	0.13	9.09	3	<0.02	<10
SS211	RED BROWN	SOIL	B	RMR-18-SS-211	0.08	4.12	0.9	<0.02	<10
SS212	RED BROWN	SOIL	B	RMR-18-SS-212	0.09	3.19	0.7	<0.02	<10
SS213	GRAY	SOIL	B	RMR-18-SS-213	0.07	3.8	1.3	<0.02	<10
SS214	RED BROWN	SOIL	B	RMR-18-SS-214	0.22	5.46	1.4	<0.02	<10
SS215	RED BROWN	SOIL	B	RMR-18-SS-215	0.1	6.12	1.3	<0.02	<10
SS216	GRAY	SOIL	B	RMR-18-SS-216	0.06	8.8	1.7	<0.02	<10
SS217	RED BROWN	SOIL	B	RMR-18-SS-217	0.07	2.64	1.2	<0.02	<10
SS218	RED BROWN	SOIL	B	RMR-18-SS-218	0.11	3.25	1.4	<0.02	<10
SS219	RED BROWN	SOIL	B	RMR-18-SS-219	0.11	3.79	0.8	<0.02	<10
SS220	GRAY BROWN	SOIL	B	RMR-18-SS-220	0.18	5.21	1.8	<0.02	<10
SS221	GRAY	SOIL	B	RMR-18-SS-221	0.08	0.39	1.5	<0.02	<10
SS222	RED BROWN	SOIL	B	RMR-18-SS-222	0.09	4.48	0.8	<0.02	<10
SS223	RED BROWN	SOIL	B	RMR-18-SS-223	0.07	7.09	1.1	<0.02	<10
SS224	RED BROWN	SOIL	B	RMR-18-SS-224	0.04	4.61	1.7	<0.02	<10
SS225	RED BROWN	SOIL	B	RMR-18-SS-225	0.12	3.41	1.4	<0.02	<10
SS226	RED BROWN	SOIL	B	RMR-18-SS-226	0.12	4.08	1.1	<0.02	<10
SS227	RED BROWN	SOIL	B	RMR-18-SS-227	0.18	5.33	0.9	<0.02	<10
SS228	RED BROWN	SOIL	B	RMR-18-SS-228	0.44	3.7	1.3	<0.02	<10
SS229	RED BROWN	SOIL	B	RMR-18-SS-229	0.09	5.65	1.2	<0.02	<10
SS230	RED BROWN	SOIL	B	RMR-18-SS-230	0.09	5.9	1.6	<0.02	<10

Station No.	COLOUR	TYPE	HORIZON	Lab. No.	Ag ppm	Al %	As ppm	Au ppm	B ppm
SS231	RED BROWN	SOIL	B	RMR-18-SS-231	0.06	4.24	1.3	<0.02	<10
SS232	RED BROWN	SOIL	B	RMR-18-SS-232	0.05	5.79	1	<0.02	<10
SS233	RED BROWN	SOIL	B	RMR-18-SS-233	0.06	6.73	1.3	<0.02	<10
SS234	RED BROWN	SOIL	B	RMR-18-SS-234	0.27	7.34	3.3	<0.02	<10
SS235	RED BROWN	SOIL	B	RMR-18-SS-235	0.14	5.63	1.1	<0.02	10
SS236	RED BROWN	SOIL	B	RMR-18-SS-236	0.1	3.21	0.9	<0.02	<10
SS237	RED BROWN	SOIL	B	RMR-18-SS-237	0.12	4.28	1.3	<0.02	<10
SS238	RED BROWN	SOIL	B	RMR-18-SS-238	0.08	5.84	1.2	<0.02	<10
SS239	GRAY BROWN	SOIL	B	RMR-18-SS-239	0.12	5.75	6.1	<0.02	10
SS240	RED BROWN	SOIL	B	RMR-18-SS-240	0.13	3.81	2.3	<0.02	<10
SS241	RED BROWN	SOIL	B	RMR-18-SS-241	0.05	4.12	1.4	<0.02	10
SS242	RED BROWN	SOIL	B	RMR-18-SS-242	0.09	5.98	0.9	<0.02	<10
SS243	RED BROWN	SOIL	B	RMR-18-SS-243	0.07	3.38	0.8	<0.02	<10
SS244	RED BROWN	SOIL	B	RMR-18-SS-244	0.1	4.36	1.6	<0.02	10
SS245	RED BROWN	SOIL	B	RMR-18-SS-245	0.11	6.21	1.3	<0.02	<10
SS246	RED BROWN	SOIL	B	RMR-18-SS-246	0.07	5.93	6.4	<0.02	10
SS247	RED BROWN	SOIL	B	RMR-18-SS-247	0.12	5.4	1.1	<0.02	<10
SS248	RED BROWN	SOIL	B	RMR-18-SS-248	0.14	6.39	1	<0.02	<10
SS249	RED BROWN	SOIL	B	RMR-18-SS-249	4.82	3.87	0.9	0.24	<10
SS250	RED BROWN	SOIL	B	RMR-18-SS-250	0.11	5.86	1.4	<0.02	<10
SS251	RED BROWN	SOIL	B	RMR-18-SS-251	0.21	3.85	1.3	<0.02	<10
SS252	RED BROWN	SOIL	B	RMR-18-SS-252	0.2	6.06	1	<0.02	<10
SS253	RED BROWN	SOIL	B	RMR-18-SS-253	0.12	3.48	1.2	<0.02	<10
SS254	RED BROWN	SOIL	B	RMR-18-SS-254	0.12	5.7	0.8	<0.02	<10
SS255	RED BROWN	SOIL	B	RMR-18-SS-255	0.03	6.82	0.7	<0.02	<10
SS256	RED BROWN	SOIL	B	RMR-18-SS-256	0.08	5.18	0.9	<0.02	<10
SS257	RED BROWN	SOIL	B	RMR-18-SS-257	0.12	4.95	0.9	<0.02	<10
SS258	RED BROWN	SOIL	B	RMR-18-SS-258	0.14	6.76	1.1	<0.02	<10
SS259	RED BROWN	SOIL	B	RMR-18-SS-259	0.19	6	0.6	<0.02	<10
SS260	GRAY	SOIL	B	RMR-18-SS-260	0.02	3.75	0.7	<0.02	10
SS261	RED BROWN	SOIL	B	RMR-18-SS-261	0.12	3.57	1	<0.02	<10
SS262	RED BROWN	SOIL	B	RMR-18-SS-262	0.11	7.37	1.2	<0.02	10
SS263	RED BROWN	SOIL	B	RMR-18-SS-263	0.07	6.92	1.1	<0.02	10
SS264	RED BROWN	SOIL	B	RMR-18-SS-264	0.14	5.92	0.8	<0.02	<10
SS265	GRAY	SOIL	B	RMR-18-SS-265	0.03	4.33	0.8	<0.02	10
SS266	RED BROWN	SOIL	B	RMR-18-SS-266	0.08	2.87	0.8	<0.02	<10
SS267	RED BROWN	SOIL	B	RMR-18-SS-267	0.04	8.09	1.2	<0.02	<10
SS268	RED BROWN	SOIL	B	RMR-18-SS-268	0.1	5.11	1.2	<0.02	<10
SS269	RED BROWN	SOIL	B	RMR-18-SS-269	0.06	7.24	1.3	<0.02	<10
SS270	RED BROWN	SOIL	B	RMR-18-SS-270	0.03	8.55	1.4	<0.02	<10
SS271	RED BROWN	SOIL	B	RMR-18-SS-271	0.2	4.68	0.9	<0.02	10
SS272	RED BROWN	SOIL	B	RMR-18-SS-272	0.13	5.14	0.9	<0.02	<10
SS273	RED BROWN	SOIL	B	RMR-18-SS-273	0.14	6.23	0.9	<0.02	<10
SS274	GRAY	SOIL	B	RMR-18-SS-274	0.24	4.74	1.5	<0.02	<10
SS275	RED BROWN	SOIL	B	RMR-18-SS-275	0.08	7.02	1.3	<0.02	<10
SS276	RED BROWN	SOIL	B	RMR-18-SS-276	0.09	4.96	0.7	<0.02	<10

Station No.	COLOUR	TYPE	HORIZON	Lab. No.	Ag ppm	Al %	As ppm	Au ppm	B ppm
SS277	RED BROWN	SOIL	B	RMR-18-SS-277	0.11	2.3	1.3	<0.02	<10
SS278	RED BROWN	SOIL	B	RMR-18-SS-278	0.07	3.6	0.6	<0.02	<10
SS279	BROWN	SOIL	B	RMR-18-SS-279	0.23	5.22	1.4	<0.02	<10
SS280	BROWN	SOIL	B	RMR-18-SS-280	0.22	1.24	0.7	<0.02	<10
SS281	RED BROWN	SOIL	B	RMR-18-SS-281	0.11	5.27	1	<0.02	<10
SS282	RED BROWN	SOIL	B	RMR-18-SS-282	0.11	5.87	0.9	<0.02	<10
SS283	RED BROWN	SOIL	B	RMR-18-SS-283	0.15	4.4	0.6	<0.02	<10
SS284	RED BROWN	SOIL	B	RMR-18-SS-284	0.18	4.52	0.8	<0.02	<10
SS285	RED BROWN	SOIL	B	RMR-18-SS-285	0.1	6.17	0.9	<0.02	<10
SS286	RED BROWN	SOIL	B	RMR-18-SS-286	0.14	5.56	0.8	<0.02	<10
SS287	RED BROWN	SOIL	B	RMR-18-SS-287	0.18	4.33	0.8	<0.02	<10
SS288	RED BROWN	SOIL	B	RMR-18-SS-288	0.19	5.89	0.9	<0.02	<10
SS289	RED BROWN	SOIL	B	RMR-18-SS-289	0.44	5.21	0.7	<0.02	<10
SS290	RED BROWN	SOIL	B	RMR-18-SS-290	0.15	5.34	0.9	<0.02	<10
SS291	RED BROWN	SOIL	B	RMR-18-SS-291	0.13	5.56	0.7	<0.02	<10
SS292	RED BROWN	SOIL	B	RMR-18-SS-292	0.07	3.49	0.5	<0.02	<10
SS293	RED BROWN	SOIL	B	RMR-18-SS-293	0.09	3.69	0.9	<0.02	<10
SS294	RED BROWN	SOIL	B	RMR-18-SS-294	0.09	4.44	0.7	<0.02	<10
SS295	RED BROWN	SOIL	B	RMR-18-SS-295	0.12	4.84	0.5	<0.02	<10
SS296	RED BROWN	SOIL	B	RMR-18-SS-296	0.16	5.86	1	0.05	<10
SS297	RED BROWN	SOIL	B	RMR-18-SS-297	0.19	6.33	1	<0.02	<10
SS298	BROWN	SOIL	B	RMR-18-SS-298	0.19	5.21	1.6	<0.02	<10
SS299	RED BROWN	SOIL	B	RMR-18-SS-299	0.1	4.48	0.8	<0.02	<10
SS300	RED BROWN	SOIL	B	RMR-18-SS-300	0.28	4.92	0.9	<0.02	<10
SS301	RED BROWN	SOIL	B	RMR-18-SS-301	0.13	4.9	0.9	<0.02	<10
SS302	RED BROWN	SOIL	B	RMR-18-SS-302	0.11	4.31	0.9	<0.02	<10
SS303	RED BROWN	SOIL	B	RMR-18-SS-303	0.1	4.85	1.4	<0.02	<10
SS304	RED BROWN	SOIL	B	RMR-18-SS-304	0.11	5.49	1	<0.02	<10
SS305	RED BROWN	SOIL	B	RMR-18-SS-305	0.09	4.81	1.1	<0.02	<10
SS306	RED BROWN	SOIL	B	RMR-18-SS-306	0.11	5.09	1	<0.02	<10
SS307	RED BROWN	SOIL	B	RMR-18-SS-307	0.17	3.83	0.6	<0.02	<10
SS308	RED BROWN	SOIL	B	RMR-18-SS-308	0.13	4.12	0.7	<0.02	<10
SS309	RED BROWN	SOIL	B	RMR-18-SS-309	0.12	6.21	1.1	<0.02	<10
SS310	RED BROWN	SOIL	B	RMR-18-SS-310	0.29	3.15	2.9	<0.02	<10
SS311	RED BROWN	SOIL	B	RMR-18-SS-311	0.14	4.31	1.1	<0.02	<10
SS312	BROWN	SOIL	B	RMR-18-SS-312	0.15	2.98	0.8	<0.02	<10
SS313	BROWN	SOIL	B	RMR-18-SS-313	0.12	2.54	0.8	<0.02	<10
SS314	BROWN	SOIL	B	RMR-18-SS-314	0.18	2.81	1.4	<0.02	<10
SS315	BROWN	SOIL	B	RMR-18-SS-315	0.19	4.8	1.5	<0.02	<10
SS316	BROWN	SOIL	B	RMR-18-SS-316	0.18	4.05	2.9	<0.02	<10
SS317	BROWN	SOIL	B	RMR-18-SS-317	0.12	5.14	1.2	<0.02	<10
SS318	BROWN	SOIL	B	RMR-18-SS-318	0.17	6.24	0.9	<0.02	<10
SS319	BROWN	SOIL	B	RMR-18-SS-319	0.09	3.37	0.4	<0.02	<10
SS320	RED BROWN	SOIL	B	RMR-18-SS-320	0.16	4.22	0.5	<0.02	<10
SS321	RED BROWN	SOIL	B	RMR-18-SS-321	0.06	4.7	0.9	<0.02	<10
SS322	RED BROWN	SOIL	B	RMR-18-SS-322	0.15	4.59	1.1	<0.02	<10

Station No.	COLOUR	TYPE	HORIZON	Lab. No.	Ag ppm	Al %	As ppm	Au ppm	B ppm
SS323	RED BROWN	SOIL	B	RMR-18-SS-323	0.14	3.18	0.7	<0.02	<10
SS324	RED BROWN	SOIL	B	RMR-18-SS-324	0.1	4.65	0.9	<0.02	<10
SS325	RED BROWN	SOIL	B	RMR-18-SS-325	0.09	3.92	0.7	<0.02	<10
SS326	RED BROWN	SOIL	B	RMR-18-SS-326	0.15	4.99	1.3	<0.02	<10
SS327	RED BROWN	SOIL	B	RMR-18-SS-327	0.07	3.85	0.6	<0.02	<10
SS328	RED BROWN	SOIL	B	RMR-18-SS-328	0.11	4.88	0.8	<0.02	<10
SS329	RED BROWN	SOIL	B	RMR-18-SS-329	0.1	4.66	0.5	<0.02	<10
SS330	RED BROWN	SOIL	B	RMR-18-SS-330	0.1	3.54	0.8	<0.02	<10
SS331	RED BROWN	SOIL	B	RMR-18-SS-331	0.07	4.98	1	<0.02	<10
SS332	RED BROWN	SOIL	B	RMR-18-SS-332	0.07	3.6	0.7	<0.02	<10
SS333	RED BROWN	SOIL	B	RMR-18-SS-333	0.15	3.87	0.8	<0.02	<10
SS334	RED BROWN	SOIL	B	RMR-18-SS-334	0.11	5.17	0.8	<0.02	<10
SS335	RED BROWN	SOIL	B	RMR-18-SS-335	0.17	3.83	0.8	<0.02	<10
SS336	RED BROWN	SOIL	B	RMR-18-SS-336	0.1	5.67	1.5	<0.02	<10
SS337	RED BROWN	SOIL	B	RMR-18-SS-337	0.07	6.91	2.2	<0.02	<10
SS338	RED BROWN	SOIL	B	RMR-18-SS-338	0.1	4.19	0.7	<0.02	<10
SS339	RED BROWN	SOIL	B	RMR-18-SS-339	0.13	4.05	0.9	<0.02	<10
SS340	RED BROWN	SOIL	B	RMR-18-SS-340	0.09	4.23	0.8	<0.02	<10
SS341	RED BROWN	SOIL	B	RMR-18-SS-341	0.08	4.2	0.6	<0.02	<10

Station No.	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
SS01	20	0.39	0.04	2	0.58	9.51	21.2	42	0.17	1120	4.9
SS02	10	0.26	0.07	0.76	0.24	7.12	7.6	82	0.18	98.5	4.77
SS03	20	0.28	0.04	1.81	0.33	11.1	24.6	33	0.19	556	2.23
SS04	20	<0.05	0.09	0.34	0.14	0.61	0.9	3	<0.05	11.9	0.22
SS05	20	0.46	0.02	1.89	0.27	20.6	21.1	42	0.16	261	4.88
SS06	10	0.45	0.05	1.15	0.19	14.75	13.5	77	0.25	123.5	8.18
SS07	10	0.47	0.05	1.54	0.15	16.05	17.2	65	0.24	157	6.8
SS08	10	0.42	0.09	0.65	0.2	8.18	7.3	87	0.24	78.3	8.83
SS09	10	0.37	0.06	0.84	0.18	8.09	10.8	72	0.2	146	8.48
SS10	20	0.48	0.08	0.88	0.29	18.85	20.9	96	0.43	161	9.42
SS11	20	0.26	0.06	1.05	0.29	13.35	31.1	71	0.28	118	6.55
SS12	10	0.22	0.12	0.59	0.2	6.77	6.7	121	0.29	83.4	11.35
SS13	10	0.48	0.04	0.48	0.11	14.2	5.2	123	0.24	109.5	7.99
SS14	10	0.45	0.02	1.36	0.2	30	15.5	92	0.31	130.5	6.48
SS15	10	0.41	0.04	1.12	0.16	13.1	12.7	73	0.21	135	7.42
SS16	30	0.26	0.07	1.45	0.57	6.63	17.9	48	0.26	527	5.76
SS17	10	<0.05	0.12	0.33	0.16	1.9	3.1	15	<0.05	33.1	3.21
SS18	20	0.32	0.07	1.04	0.22	11	13.6	69	0.32	140	6.77
SS19	10	0.48	0.08	0.44	0.15	14.2	6.6	108	0.3	194.5	8.54
SS20	10	0.31	0.08	0.52	0.6	6.89	7.8	111	0.37	106.5	8.79
SS21	20	0.38	0.06	0.98	0.62	7.55	14.8	71	0.37	135.5	7.31
SS22	20	0.28	0.08	0.84	0.3	6.61	9.4	71	0.24	83.5	6.82
SS23	10	0.42	0.07	0.54	0.59	13.05	27.3	97	0.29	93.9	6.61
SS24	10	0.2	0.09	0.37	0.39	6.15	7.4	87	0.27	90.8	6.81
SS25	30	0.19	0.08	0.72	0.31	8	10.3	38	0.18	54.6	1.75
SS26	10	0.22	0.08	0.82	0.21	5.9	19.7	138	0.65	155	7
SS27	10	0.3	0.07	0.4	0.15	7.3	5.8	137	0.29	55.2	6.69
SS28	30	0.53	0.07	0.72	0.6	18.85	15.4	106	0.66	91.3	7.21
SS29	10	<0.05	0.05	0.24	0.23	1.48	1.7	19	0.05	8	0.66
SS30	10	0.33	0.1	0.35	0.23	8.11	5.1	82	0.26	53.3	7.6
SS31	10	0.14	0.11	0.32	0.13	5.57	3.6	45	0.11	33.1	5.02
SS32	30	0.94	0.03	0.55	0.19	19.4	12.8	79	0.28	81.5	3.93
SS33	40	0.43	0.05	1.83	0.19	24	25.5	48	0.32	170.5	5.48
SS34	40	0.54	0.05	1.73	0.16	33.8	34	102	0.51	195	8.1
SS35	30	0.67	0.06	1.47	0.18	24.4	32.7	94	0.56	152	8.77
SS36	20	0.52	0.05	1.46	0.18	15.7	18.9	69	0.28	81.4	6.66
SS37	20	0.34	0.06	1.01	0.14	10.65	11.9	89	0.24	65	7.93
SS38	30	0.39	0.03	1.99	0.14	18.05	24.3	50	0.24	149	5.75
SS39	10	0.35	0.01	2.28	0.1	12.35	19.1	29	0.15	88.2	3.88
SS40	20	0.42	0.06	1.26	0.14	16.65	14.2	82	0.22	86.5	6.81
SS41	20	0.5	0.03	0.93	0.1	16.6	12	73	0.22	101	5.79
SS42	30	0.28	0.02	1.71	0.08	12.9	20.5	37	0.23	96.4	4.06
SS43	20	0.36	0.08	1.06	0.14	16.7	17.4	67	0.3	79.3	6.95
SS44	30	0.29	0.1	1.01	0.12	14.1	12.4	69	0.35	47.2	7.24
SS45	20	0.42	0.07	1.12	0.15	13.55	13.8	77	0.31	62.4	7.43
SS46	20	0.55	0.04	1.38	0.14	17.4	19.3	91	0.32	65.4	7.83

Station No.	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
SS47	20	0.39	0.08	1.03	0.13	10.55	11.9	88	0.27	51.2	9.11
SS48	20	0.44	0.06	1.37	0.12	15.7	22.7	63	0.34	68	6.55
SS49	20	0.65	0.04	1.2	0.14	24	19.8	103	0.41	66.7	7.58
SS50	20	0.48	0.03	1.27	0.13	20.1	17.6	68	0.34	84.4	6.06
SS51	20	0.34	0.07	0.9	0.15	5.89	11	95	0.4	42.9	8.73
SS52	20	0.54	0.05	1.74	0.18	13.35	19.5	80	0.75	84.9	7.38
SS53	10	0.49	0.02	2	0.11	27.1	20.4	60	0.3	105.5	5.82
SS54	20	0.46	0.05	1.7	0.12	26.7	18.9	74	0.25	82.9	6.33
SS55	20	0.46	0.09	1.1	0.14	13.65	18.7	71	0.41	89	8.39
SS56	20	0.49	0.05	1.95	0.16	17.7	22.2	63	0.38	102.5	5.62
SS57	10	0.46	0.04	2.01	0.12	13.7	17.4	49	0.29	99.7	5.92
SS58	20	0.49	0.05	1.64	0.11	30.3	19.2	74	0.32	107	7.16
SS59	20	0.48	0.02	2.15	0.1	21.7	19.2	39	0.18	153.5	5.03
SS60	10	0.5	0.02	2.08	0.24	16.05	16.8	32	0.15	183	4.58
SS61	20	0.55	0.01	1.54	0.71	12.3	13.4	41	0.16	333	5.24
SS62	20	0.59	0.07	1.23	0.27	17.2	19.2	52	0.32	150	7.13
SS63	20	0.33	0.1	1.24	0.19	17.55	15.4	54	0.41	45.4	6.83
SS64	30	0.49	0.08	1.69	0.19	29.7	29.7	50	0.81	183.5	7.07
SS65	10	0.45	0.1	0.78	0.29	18.35	13.2	75	0.27	156.5	9.04
SS66	30	0.37	0.04	1.12	0.17	19.2	17.8	64	0.3	102	6.9
SS67	30	0.58	0.05	0.97	0.2	12.8	15.6	77	0.33	93.9	8.04
SS68	20	0.45	0.09	0.74	0.23	10.85	11.7	63	0.25	159	7.57
SS69	30	0.62	0.06	0.71	0.61	17.75	18.4	88	0.81	351	8.96
SS70	20	0.58	0.05	1.01	0.34	14.05	14.7	71	0.38	131.5	8.02
SS71	40	0.48	0.04	1.46	0.3	12.8	17.2	61	0.25	114	7.2
SS72	30	0.5	0.09	0.96	0.54	18.65	14.5	72	0.41	136.5	8.02
SS73	50	0.59	0.1	1.07	0.4	22.7	65.4	56	0.52	95.3	6.84
SS74	20	0.63	0.03	0.88	0.17	32.3	19.2	59	0.24	114	6.27
SS75	40	0.74	0.06	1.52	0.31	32.1	48.7	69	0.37	81.4	6.68
SS76	30	0.63	0.08	0.47	0.31	12.95	19	40	0.34	236	8.75
SS77	30	0.25	0.09	0.5	0.22	5.14	6.2	34	0.22	96.3	5.58
SS78	20	0.5	0.06	0.5	0.13	11.05	10.8	48	0.25	47.4	8.64
SS79	20	0.58	0.05	0.53	0.16	9.48	5.6	68	0.2	77	8.15
SS80	20	0.4	0.07	0.78	0.17	8.56	12.3	42	0.33	103	7.06
SS81	20	0.36	0.06	0.55	0.18	6.14	8.8	60	0.24	90	8.67
SS82	20	0.35	0.02	1.49	0.12	14.95	17.3	28	0.16	186	4.21
SS83	30	0.71	0.08	1.01	0.15	27	153	81	0.51	158	7.93
SS84	20	0.49	0.07	1.11	0.3	8.92	14.3	76	0.48	87.4	8.75
SS85	10	0.33	0.06	1.17	0.28	5.19	8.8	86	0.4	61.2	8.32
SS86	20	0.62	0.02	1.38	0.12	13.45	20.1	66	0.22	101.5	5.64
SS87	10	0.43	0.08	1.19	0.25	6.26	9.7	94	0.3	59.2	10
SS88	20	0.53	0.08	1.47	0.21	14.3	21	102	0.34	103	11.1
SS89	30	0.37	0.11	0.62	0.24	10.65	19.7	79	0.39	85.6	7.85
SS90	20	0.52	0.02	0.78	0.16	13.55	13.7	66	0.18	127	3.67
SS91	10	0.56	0.02	0.94	0.17	16.15	14.7	83	0.31	160.5	5.25
SS92	20	0.62	0.04	0.72	0.22	14.2	12.9	86	0.4	99.6	5.95

Station No.	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
SS93	40	0.3	0.02	0.98	0.14	13.55	11.6	28	0.24	93.1	2.99
SS94	20	0.41	0.04	0.92	0.14	13.55	13.8	67	0.34	154	5.53
SS95	20	0.28	0.06	0.87	0.24	5.87	9.9	72	0.34	99.7	6.32
SS96	20	0.26	0.08	0.64	0.24	6.9	9.8	57	0.3	86.7	5.9
SS97	30	0.36	0.03	1.79	0.17	16.05	19.1	34	0.24	122	4.22
SS98	30	0.36	0.03	1.92	0.19	14.05	21.9	36	0.28	132.5	4.51
SS99	10	0.44	0.06	0.94	0.42	7.18	10.1	77	0.62	148.5	8.06
SS100	20	0.68	0.1	1.07	0.41	10.9	53.6	50	0.62	132.5	8.24
SS101	10	0.39	0.06	0.84	0.21	10.85	9.5	119	0.37	79.6	10.15
SS102	10	0.59	0.07	0.78	0.21	14.35	13.8	83	0.37	103	7.82
SS103	10	0.47	0.04	1.16	0.22	12.7	15.1	73	0.21	112.5	7.61
SS104	10	0.4	0.01	2.08	0.11	13.55	19.5	28	0.12	188.5	4.91
SS105	20	0.43	0.01	2.03	0.1	19.25	23.4	34	0.14	230	4.5
SS106	10	0.38	0.01	2.09	0.11	15.05	18.1	27	0.12	151.5	4.62
SS107	30	0.4	0.04	1.55	0.26	15.9	19.1	55	0.34	128.5	4.68
SS108	30	0.29	0.07	0.61	0.28	12	7.8	37	0.24	49.3	3.68
SS109	40	0.56	0.02	1.49	0.28	27.3	31.3	54	0.35	120	4.23
SS110	30	0.71	0.07	1	0.38	32.8	24.2	69	0.53	84.2	5.97
SS111	30	0.56	0.07	0.76	0.27	12.1	14.4	79	0.56	59.7	6.16
SS112	40	0.48	0.08	1	0.39	16.9	15.4	64	0.47	56.8	2.35
SS113	40	0.4	0.1	0.83	0.28	9.95	23.2	70	0.75	45.6	7.2
SS114	60	0.51	0.05	0.88	0.61	15.15	144.5	33	0.21	63.1	2.24
SS115	20	0.65	0.03	0.8	0.36	17	12.1	74	0.31	81.9	5.85
SS116	30	0.55	0.05	1.06	0.33	19.1	18.6	71	0.37	136.5	5.65
SS117	30	0.55	0.07	0.54	0.21	10.75	9	79	0.5	70.2	6.83
SS118	30	0.29	0.08	1.14	0.22	8.49	17.5	64	0.58	113	6.68
SS119	40	0.42	0.05	1.18	0.3	12.2	22.3	60	0.38	108	5.15
SS120	60	0.48	0.04	1.16	0.37	13.35	33.2	50	0.39	130	4.4
SS121	30	0.68	0.04	1.03	0.24	28.3	20.9	80	0.37	124	6.02
SS122	20	0.68	0.05	0.85	0.34	20	16.3	85	0.52	93.2	5.79
SS123	20	0.66	0.08	0.9	0.32	13.3	15.5	78	0.41	70.8	7.39
SS124	30	0.63	0.06	0.84	0.25	17.85	16.7	78	0.32	183.5	6.63
SS125	30	0.6	0.06	1.03	0.33	30.7	13.7	81	0.38	121	6.37
SS126	40	0.3	0.02	1.29	0.21	11.5	17.6	36	0.25	108.5	3.44
SS127	30	0.5	0.08	0.74	0.31	11.9	20.2	84	0.42	80.3	6.04
SS128	10	0.29	0.11	0.43	0.17	7.73	7.2	98	0.29	51.3	7.61
SS129	20	0.55	0.05	0.77	0.25	10.35	29.1	74	0.36	85.9	5.4
SS130	20	0.58	0.08	0.65	0.38	16	18.9	83	0.5	103	6.48
SS131	20	0.89	0.05	0.67	0.38	20.4	28.1	104	0.34	111	7.52
SS132	40	0.52	0.06	0.85	0.31	12.3	17.6	74	0.42	96.7	5.92
SS133	20	0.59	0.07	0.77	0.29	17.7	15.9	103	0.42	102	8.19
SS134	20	0.6	0.04	0.81	0.22	13.05	11	80	0.38	102.5	5.32
SS135	10	0.52	0.12	0.48	0.3	10.45	12.2	90	0.33	77.8	9.66
SS136	20	0.2	0.15	0.47	0.31	10.05	13.1	38	0.22	67.8	3.7
SS137	70	0.53	0.15	1.4	0.84	23.6	45.6	50	0.41	149	4.59
SS138	30	0.46	0.1	2.52	0.59	23.6	38.6	54	0.29	102.5	4.97

Station No.	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
SS139	30	0.68	0.04	1.24	0.34	19.3	30.2	62	0.29	168.5	4.39
SS140	20	0.55	0.08	0.55	0.57	8.06	9.9	95	0.4	89	7.13
SS141	30	0.76	0.08	1.35	0.41	16.65	29.3	71	0.76	102.5	6.79
SS142	20	0.79	0.07	1.26	0.26	47.6	22.5	80	0.44	138.5	4.77
SS143	10	0.51	0.03	1.9	0.26	17.9	18.8	50	0.18	183	4.81
SS144	40	0.38	0.06	2.32	0.5	11.55	39.8	54	0.61	361	4.71
SS145	30	0.5	0.04	1.95	0.48	21	32.6	53	0.31	703	5.04
SS146	40	0.46	0.03	2.09	0.52	20.1	36.5	37	0.23	659	4.44
SS147	110	0.38	0.05	2.08	0.76	12.3	34.6	41	0.97	1110	5.55
SS148	30	0.4	0.03	1.94	0.87	18.25	33.9	29	0.28	1380	3.01
SS149	20	0.5	0.02	2.57	0.23	16.95	27.1	42	0.2	290	5.4
SS150	50	0.62	0.08	0.82	0.33	25	33.1	67	0.36	201	8.52
SS151	10	0.51	0.06	0.99	0.2	10.45	8.3	94	0.28	101	7.93
SS152	20	0.46	0.04	1.26	0.25	17.4	16.1	72	0.24	230	6.13
SS153	10	0.5	0.07	0.76	0.2	11.15	9.5	98	0.3	137	9.65
SS154	10	0.28	0.12	0.6	0.21	6.32	6.2	89	0.32	68.7	9.46
SS155	20	0.58	0.05	0.54	0.28	16.4	12.3	84	0.47	83.3	6.44
SS156	20	0.43	0.08	0.39	0.37	18.95	9.4	73	0.3	66.8	5.52
SS157	20	0.67	0.05	0.51	0.18	11.55	8.3	68	0.31	54.5	4.12
SS158	20	0.79	0.03	0.24	0.27	13.75	8.6	100	0.2	64.6	5.06
SS159	10	0.44	0.05	0.3	0.21	14.9	5.1	112	0.28	51.9	6.3
SS160	20	0.61	0.05	0.48	0.2	18.25	10.2	82	0.49	91.7	5.39
SS161	10	0.51	0.08	0.33	0.17	9.76	4.5	73	0.28	50.5	6.4
SS162	20	0.52	0.06	0.43	0.28	9.94	6.5	91	0.36	79.4	7.66
SS163	20	0.56	0.04	0.5	0.34	13.15	10.4	108	0.44	65.9	6
SS164	30	0.47	0.09	0.46	0.21	9.17	9.3	74	0.46	51.2	7.89
SS165	30	0.5	0.04	1.11	0.24	12.5	16.3	64	0.43	202	3.95
SS166	20	0.67	0.08	0.41	0.34	10.7	9.4	86	0.56	53.4	6.9
SS167	10	0.69	0.03	0.09	0.09	12.3	2.5	88	0.18	69.8	3.71
SS168	40	0.42	0.03	1.28	0.29	15.4	24.4	38	0.35	109	3.56
SS169	30	0.6	0.05	0.54	0.2	20.8	9.4	71	0.47	80	4.95
SS170	20	0.54	0.05	0.53	0.25	14.25	7.7	81	0.36	72.8	5.15
SS171	20	0.52	0.06	0.59	0.23	12.3	7.9	72	0.27	62.7	5.17
SS172	20	0.71	0.06	0.28	0.32	18.95	5.3	108	0.43	94.1	7.43
SS173	10	0.57	0.04	0.36	0.33	8.52	6.4	83	0.21	67	7.77
SS174	20	0.4	0.04	0.52	0.28	17.65	7.1	63	0.25	88.8	5.61
SS175	20	0.59	0.09	0.38	0.36	16.05	6.8	77	0.44	39.8	6.54
SS176	30	0.19	0.09	0.47	0.43	10.1	5.3	48	0.17	31.1	4.59
SS177	20	0.58	0.07	0.5	0.41	16.3	11.1	70	0.42	66.3	5.83
SS178	40	0.74	0.07	0.95	0.39	17.75	30.2	63	0.58	74.1	4.65
SS179	20	0.49	0.04	0.7	0.25	15.95	12.3	76	0.37	123	4.69
SS180	20	1.08	0.02	0.79	0.3	36.9	38.6	80	0.29	163.5	4.47
SS181	20	0.57	0.08	0.46	0.27	10.6	6.2	74	0.35	64.2	6.12
SS182	30	0.5	0.03	0.76	0.34	18.45	14	69	0.28	117	4.82
SS183	30	0.82	0.08	0.71	0.42	17.15	17.9	112	0.38	67.6	6.57
SS184	20	0.71	0.08	1.17	0.62	30.9	15	71	0.44	119	6.21

Station No.	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
SS185	30	0.62	0.05	0.88	0.33	23.4	22.9	96	0.29	106	6.62
SS186	20	0.51	0.08	0.7	0.34	18.95	15.1	103	0.3	102	7.81
SS187	20	0.53	0.05	0.97	0.22	12.35	15.7	72	0.34	107	5.55
SS188	10	0.57	0.07	0.47	0.22	10.55	16.4	101	0.19	80.9	9.29
SS189	20	0.44	0.05	0.64	0.27	12.35	11.1	92	0.23	86.7	7.22
SS190	10	0.42	0.06	0.49	0.24	10.15	7.7	86	0.26	73.6	7.36
SS191	10	0.41	0.06	0.4	0.31	12.25	7.8	98	0.16	101.5	8.37
SS192	10	0.58	0.04	0.64	0.25	18.45	10.8	95	0.2	117.5	7.54
SS193	20	0.57	0.09	0.59	0.44	20.1	13.7	110	0.42	131.5	8.36
SS194	10	0.43	0.08	0.52	0.23	9.69	8.4	92	0.28	71.4	7.56
SS195	10	0.46	0.06	0.6	0.2	11.95	13	92	0.27	118.5	7.29
SS196	20	0.41	0.04	1.08	0.18	11.35	16.3	89	0.33	150	7.02
SS197	10	0.4	0.1	0.47	0.22	9.11	10.3	96	0.36	99.8	9.29
SS198	10	0.22	0.16	0.37	0.15	3.97	10.1	105	0.53	61.2	14.3
SS199	10	0.67	0.06	0.46	0.13	7.82	7	134	0.31	117	8.75
SS200	10	0.29	0.06	0.54	0.15	8.4	7.7	126	0.31	101.5	6.95
SS201	10	0.48	0.04	0.52	0.13	16	11.5	97	0.33	129	5.85
SS202	10	0.42	0.04	0.53	0.19	12.65	8.7	98	0.25	169.5	6.21
SS203	20	0.19	0.05	1.18	0.16	5.74	18	43	0.33	136	5.34
SS204	10	0.37	0.08	0.46	0.22	6.46	7.1	82	0.25	79.7	7.45
SS205	10	0.42	0.09	0.41	0.35	6.4	7.6	126	0.5	166	11.1
SS206	10	0.49	0.05	0.53	0.17	14.25	8.2	81	0.33	142	5.68
SS207	20	0.33	0.04	1.14	0.17	7.36	18.8	53	0.33	155.5	4.97
SS208	20	0.51	0.03	1.1	0.26	11.75	16.7	60	0.3	114	5.2
SS209	20	0.54	0.07	0.85	0.27	16.95	20.4	94	0.33	110	7.21
SS210	20	0.64	0.04	0.5	0.22	20.7	14	98	0.29	111.5	5.48
SS211	10	0.36	0.06	0.99	0.44	9.02	11.8	64	0.19	315	7.76
SS212	10	0.35	0.09	0.75	0.18	6.06	9.3	64	0.34	62.1	7.89
SS213	20	0.48	0.04	1.2	0.21	14.85	32.5	49	0.33	133.5	5.4
SS214	20	0.56	0.05	0.93	0.16	24.2	16.9	64	0.28	125	6.54
SS215	10	0.42	0.05	0.49	0.18	6.58	5.1	104	0.2	83.5	10.65
SS216	10	0.54	0.02	0.72	0.11	14	11	84	0.18	206	6.09
SS217	10	0.41	0.05	1.22	0.16	8.97	18.8	40	0.19	113	5.79
SS218	40	0.5	0.03	1.43	0.19	16.65	54.6	26	0.18	147.5	3.43
SS219	20	0.48	0.08	0.78	0.15	8.95	14.7	71	0.37	74.9	9.27
SS220	30	0.66	0.08	0.81	0.3	13.65	24.6	72	0.55	205	7.65
SS221	10	<0.05	0.16	0.17	0.09	1.9	2.6	11	0.08	14.8	1.99
SS222	20	0.51	0.1	0.8	0.19	12	17.5	76	0.45	106	8.59
SS223	10	0.58	0.05	0.74	0.21	13.65	15.9	93	0.38	95.3	8.03
SS224	10	0.43	0.03	1.38	0.15	11.75	17	39	0.14	122.5	5.48
SS225	10	0.45	0.14	0.98	0.21	8.65	15.1	39	0.28	185.5	9.79
SS226	10	0.39	0.06	1.15	0.22	11.2	11.2	70	0.26	75.2	7.47
SS227	10	0.52	0.06	1.02	0.28	13.3	13.4	85	0.35	105	7.64
SS228	10	0.38	0.08	0.47	0.3	8.65	12.9	80	0.48	135.5	9.83
SS229	20	0.65	0.06	0.92	0.27	14.75	15	78	0.52	88.8	7.27
SS230	10	0.45	0.05	0.94	0.21	12.8	11.2	71	0.29	100.5	6.74

Station No.	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
SS231	10	0.43	0.04	1.37	0.16	19.5	22.6	55	0.3	84.7	6.56
SS232	10	0.58	0.04	1.67	0.16	9.69	20.2	66	0.27	64	5.53
SS233	10	0.48	0.05	0.77	0.14	12.75	12.9	95	0.26	72.1	7.76
SS234	10	0.57	0.04	0.95	0.23	18.85	19.7	93	0.26	157	10.15
SS235	10	0.55	0.04	1.55	0.13	22	20.1	75	0.26	115.5	7.64
SS236	10	0.33	0.09	0.74	0.13	9.68	9.1	63	0.22	70.2	10.55
SS237	20	0.65	0.06	1.52	0.21	13.4	17.1	71	0.47	85.7	8.56
SS238	20	0.65	0.06	1.77	0.19	18.6	24.6	64	0.51	212	8.56
SS239	10	0.71	0.04	1.84	0.18	28.3	29.8	69	0.28	141.5	5.26
SS240	10	0.41	0.1	0.61	0.17	15.25	10.2	59	0.48	85.4	7.86
SS241	10	0.5	0.03	1.69	0.14	17.75	21	53	0.23	103.5	6.18
SS242	10	0.57	0.05	1.08	0.16	14.3	16.5	90	0.47	82	9.53
SS243	10	0.38	0.09	1.09	0.15	7.17	14.8	63	0.28	117	9.5
SS244	30	0.51	0.03	1.82	0.22	20.7	76.1	48	0.35	146.5	6.39
SS245	10	0.5	0.05	0.84	0.12	12.95	12.7	81	0.31	78.1	8.21
SS246	10	0.67	0.02	2.05	0.11	52.6	37.2	74	0.3	242	5.57
SS247	10	0.49	0.06	1.09	0.16	13.95	20	78	0.4	112	9.05
SS248	30	0.65	0.05	0.96	0.2	14.55	54	71	0.36	112.5	6.92
SS249	10	0.33	0.06	1.1	0.16	8.7	17.4	64	0.37	413	8.62
SS250	10	0.51	0.04	0.87	0.26	15.7	14.2	86	0.36	130	7.62
SS251	10	0.37	0.06	0.95	0.31	8.39	19	72	0.34	572	8.68
SS252	10	0.6	0.14	0.52	0.65	14	13.4	95	0.44	155	10.9
SS253	10	0.34	0.11	0.68	0.28	8.71	15.4	59	0.34	114.5	9.06
SS254	30	0.54	0.05	1.03	0.15	14.7	21.6	102	0.42	146	7.95
SS255	10	0.63	0.05	1.37	0.1	11.15	15.9	91	0.31	69.1	6.21
SS256	20	0.49	0.05	1.02	0.11	10.45	15.3	114	0.31	64.4	9.56
SS257	20	0.64	0.07	1.35	0.23	20.6	19.1	107	0.69	67.9	9.06
SS258	30	0.76	0.09	0.95	0.19	49.5	41.3	120	0.71	98.9	8.97
SS259	20	0.68	0.09	1.18	0.24	33.7	29.3	114	0.29	44.5	8.91
SS260	10	0.44	0.01	2.52	0.08	14.65	22.2	35	0.17	101	4.64
SS261	30	0.41	0.06	1.13	0.13	9.63	20.6	87	0.35	67.6	9.41
SS262	10	0.62	0.05	1.13	0.12	17.2	11.3	94	0.39	71.7	6
SS263	10	0.57	0.04	1.27	0.09	15.05	12.4	87	0.38	74.5	7.09
SS264	10	0.53	0.05	1.11	0.2	7.97	11.9	127	0.31	52.2	9.73
SS265	10	0.49	0.01	2.25	0.09	18.3	21.2	43	0.18	135.5	4.65
SS266	10	0.32	0.11	0.79	0.16	6.98	13.7	109	0.25	64.6	9.42
SS267	10	0.53	0.06	0.92	0.12	11.15	10.7	149	0.24	67.1	7.85
SS268	10	0.52	0.05	1.83	0.12	11.45	26.8	76	0.3	166.5	7.38
SS269	10	0.52	0.04	1.1	0.1	8.95	14.5	126	0.23	63.7	7.52
SS270	10	0.69	0.02	1.55	0.07	25.8	26.7	83	0.2	126.5	5.76
SS271	20	0.6	0.05	1.85	0.18	16.7	19.6	89	0.37	81.5	8.33
SS272	20	0.72	0.07	1.59	0.15	18.8	27.6	104	0.54	89.6	9.59
SS273	10	0.56	0.1	0.73	0.11	10.85	8.8	110	0.23	83.8	10.8
SS274	20	0.46	0.04	1.9	0.18	13.4	49.6	54	0.47	215	5.13
SS275	10	0.49	0.04	0.91	0.11	13	14.1	92	0.19	88.4	6.51
SS276	20	0.61	0.08	0.96	0.16	12.9	25.5	87	0.39	83.7	8.83

Station No.	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
SS277	30	0.27	0.07	0.91	0.17	8.88	9	34	0.14	53.9	3.12
SS278	10	0.26	0.12	0.62	0.15	5.94	11.3	91	0.25	55.3	10.55
SS279	20	0.47	0.07	0.78	0.27	6.95	15.4	70	0.28	59.9	8.91
SS280	10	0.15	0.03	0.88	0.18	3.92	6.7	23	0.11	35.1	2.52
SS281	20	0.64	0.05	1.18	0.17	21.2	24.4	110	0.39	90.4	8.39
SS282	20	0.73	0.05	1.75	0.19	34.3	30.1	100	0.36	87.6	6.78
SS283	20	0.73	0.08	1.15	0.13	25.6	30.2	112	0.42	61.2	10
SS284	20	0.6	0.05	1.72	0.15	18.35	23.8	101	0.45	87	8.75
SS285	10	0.54	0.04	1.25	0.12	13.35	18.1	105	0.32	74.3	8.42
SS286	10	0.6	0.06	1.43	0.15	12.3	18.3	104	0.36	75.4	9.45
SS287	20	0.55	0.05	1.75	0.14	13.15	56.8	72	0.4	81.2	6.89
SS288	10	0.54	0.04	1.1	0.13	11.5	19.7	87	0.21	64.2	7.7
SS289	10	0.43	0.05	0.99	0.18	12.15	18.5	116	0.18	51.6	10.75
SS290	20	0.6	0.05	1.47	0.12	19.8	28.3	93	0.38	130	7.88
SS291	10	0.63	0.06	1.3	0.16	22.5	21.8	90	0.3	73	7.67
SS292	20	0.45	0.06	1.58	0.18	11.95	18.8	79	0.23	56.6	8.35
SS293	20	0.45	0.06	1.5	0.17	10.85	23.6	77	0.38	71.8	7.62
SS294	10	0.51	0.04	1.64	0.13	15.15	17.1	75	0.29	70.5	7.5
SS295	10	0.64	0.07	1.37	0.13	10.85	20.5	99	0.3	68.7	9.71
SS296	10	0.54	0.06	1.88	0.17	14.2	23.6	93	0.37	84.8	8.37
SS297	20	0.63	0.04	1.91	0.15	22.8	30.3	95	0.43	116.5	7.85
SS298	20	0.53	0.05	1.09	0.16	12	19.2	73	0.35	56.1	6.07
SS299	20	0.59	0.04	1.85	0.17	17.65	32.3	70	0.33	82.1	5.64
SS300	20	0.62	0.06	1.51	0.14	22.1	24.5	93	0.67	83.2	8.81
SS301	20	0.54	0.04	2.21	0.12	29	24.2	63	0.23	124.5	6.92
SS302	20	0.46	0.03	2.19	0.15	18.15	25.2	59	0.23	127.5	5.88
SS303	20	0.58	0.05	1.93	0.13	25.5	29	87	0.34	123	7.54
SS304	30	0.71	0.05	1.79	0.13	33.6	40.1	89	0.26	116.5	6.86
SS305	20	0.6	0.03	1.8	0.12	28.9	27.2	75	0.24	109.5	6.37
SS306	20	0.63	0.05	1.44	0.13	24.1	24.8	96	0.26	91.6	8.16
SS307	20	0.65	0.08	1.15	0.12	27.5	13.7	85	0.28	65.5	8.43
SS308	10	0.53	0.06	1.39	0.14	15.45	21.1	81	0.24	79.8	8.93
SS309	10	0.71	0.04	1.31	0.15	32	28.2	84	0.37	98.3	6.44
SS310	20	0.57	0.14	0.75	0.27	37	173	56	0.32	49.9	5.81
SS311	30	0.68	0.08	1.14	0.24	34.3	58.3	87	0.54	67.9	6.52
SS312	10	0.44	0.06	0.47	0.1	15.2	7.8	65	0.18	58.9	6.61
SS313	20	0.4	0.06	0.67	0.11	19	9.5	47	0.27	86	6.25
SS314	30	0.44	0.09	0.93	0.23	21.4	18.7	46	0.34	50.7	5
SS315	20	0.7	0.09	0.55	0.15	18.85	11.8	47	0.34	138	8.05
SS316	30	0.52	0.03	1.85	0.19	29.9	26.4	34	0.23	274	4.39
SS317	20	0.57	0.03	1.28	0.12	36.6	19.6	78	0.23	92.5	5.81
SS318	10	0.81	0.05	0.93	0.12	20.7	32.1	121	0.35	69.2	9.93
SS319	30	0.61	0.07	1.51	0.18	16.25	23.9	86	0.64	66.6	6.92
SS320	20	0.45	0.07	1.19	0.17	5.23	13.7	87	0.45	49	7.9
SS321	20	0.5	0.04	1.43	0.16	8.67	23.4	79	0.5	69.8	7.33
SS322	20	0.6	0.05	1.29	0.15	14.35	19.2	68	0.44	91	7.12

Station No.	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
SS323	10	0.36	0.06	1.11	0.13	11.7	11	69	0.17	54.8	7.06
SS324	20	0.62	0.05	1.26	0.12	14.15	23.1	105	0.35	54.6	7.9
SS325	10	0.52	0.06	0.82	0.16	9.91	15.9	106	0.19	46.3	10.15
SS326	10	0.45	0.07	0.75	0.17	8.41	10.3	121	0.35	73.5	12.9
SS327	20	0.51	0.1	0.75	0.11	8.85	16	103	0.26	49.7	10.4
SS328	20	0.69	0.05	1.25	0.12	24.2	28.2	94	0.25	69.2	7.43
SS329	10	0.61	0.08	0.7	0.13	16.95	21.2	116	0.24	64.6	9.15
SS330	20	0.47	0.05	1.31	0.13	12.25	18.5	71	0.26	73.9	6.66
SS331	20	0.55	0.05	1.14	0.12	10.05	20.8	81	0.34	85.7	7.1
SS332	10	0.38	0.08	1.15	0.2	5.64	8.8	106	0.19	31	10.2
SS333	20	0.66	0.07	1.09	0.15	15.8	22.2	95	0.35	58.4	9.24
SS334	20	0.65	0.05	1.23	0.13	23.8	21.5	93	0.33	76.5	7.69
SS335	30	0.52	0.07	1.4	0.19	15.25	21.7	78	0.52	64.1	7.87
SS336	30	0.66	0.05	0.92	0.12	21.9	20.8	74	0.44	89.5	6.71
SS337	30	0.65	0.03	1	0.1	17.4	17.2	76	0.26	113	5.55
SS338	30	0.55	0.05	1.44	0.13	20.5	22.1	77	0.32	103.5	7.49
SS339	30	0.61	0.05	1.58	0.18	12.3	22.7	76	0.43	83.8	6.95
SS340	20	0.51	0.05	1.51	0.15	26.5	23.8	80	0.39	70	7.85
SS341	20	0.5	0.07	1.33	0.15	13.05	19.7	98	0.54	61.3	7.93

Station No.	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
SS01	11.55	0.19	0.73	0.08	0.048	0.02	3.4	5.2	0.95	506	0.56
SS02	15	0.08	0.6	0.22	0.066	0.02	2.6	4.3	0.32	162	0.94
SS03	4.83	0.11	0.05	0.21	0.027	0.02	3.5	4.1	0.59	1560	12.5
SS04	0.52	0.05	<0.02	0.28	0.01	0.03	0.3	0.1	0.05	15	0.24
SS05	10.8	0.2	1.06	0.06	0.041	0.01	4.9	4.4	0.93	407	0.52
SS06	16.75	0.12	1.25	0.2	0.07	0.01	2.9	3.7	0.51	320	0.62
SS07	14.9	0.12	1.01	0.17	0.062	0.01	4.4	3.8	0.67	421	0.51
SS08	18.9	0.09	0.94	0.26	0.08	0.01	2.7	3.9	0.24	196	0.54
SS09	17.35	0.1	0.87	0.22	0.068	0.01	3	4.3	0.53	243	0.61
SS10	19.1	0.1	1	0.21	0.077	0.01	3.9	5.6	0.39	362	0.96
SS11	17.3	0.11	0.7	0.19	0.069	0.01	4.8	3.7	0.52	529	0.92
SS12	26	0.1	1.39	0.26	0.099	0.01	2	2.7	0.25	142	0.54
SS13	13.15	0.11	1.59	0.35	0.087	0.01	4.2	3.2	0.19	92	0.68
SS14	12.7	0.15	1.44	0.17	0.07	0.01	3.5	4.7	0.7	319	0.49
SS15	15.55	0.12	0.86	0.15	0.064	0.01	3.9	3.5	0.49	369	0.5
SS16	14.25	0.12	0.33	0.09	0.042	0.04	2.5	5.4	0.86	756	0.44
SS17	3.95	0.08	0.08	0.17	0.012	0.02	0.9	0.2	0.08	70	0.31
SS18	16.15	0.11	0.76	0.18	0.058	0.02	3.4	4.4	0.59	495	0.83
SS19	14.35	0.08	1.01	0.32	0.096	0.01	5.2	5.1	0.21	141	0.84
SS20	25.8	0.09	0.6	0.37	0.076	0.01	2.4	4.2	0.32	512	0.83
SS21	14.15	0.1	0.4	0.2	0.065	0.01	2.6	4.8	0.51	397	1.73
SS22	15.45	0.09	0.49	0.2	0.049	0.01	2.4	3.5	0.35	292	0.72
SS23	16.2	0.1	0.6	0.26	0.067	0.01	3.3	4.7	0.32	514	2.74
SS24	19.25	0.09	0.47	0.24	0.053	0.01	2.2	3.2	0.29	289	0.79
SS25	4.05	0.09	0.04	0.36	0.019	0.03	3.3	2.5	0.37	1020	9.24
SS26	17.2	0.1	0.28	0.22	0.045	0.03	2.1	13.8	2.17	494	0.64
SS27	16.55	0.1	0.94	0.17	0.074	0.01	3.2	3.9	0.28	149	1.05
SS28	15.35	0.09	1.12	0.18	0.065	0.01	3.8	7.5	0.48	213	1.09
SS29	1.34	0.07	<0.02	0.15	0.005	0.02	0.8	0.2	0.09	44	0.28
SS30	16.85	0.09	0.6	0.36	0.063	0.01	2.9	3.5	0.17	266	1.04
SS31	16.75	0.08	0.25	0.18	0.029	0.01	2.1	1.2	0.12	110	1.09
SS32	9.33	0.1	0.36	0.24	0.044	0.01	8.2	3.9	0.29	262	1.94
SS33	11.3	0.15	0.45	0.13	0.043	0.03	7.2	5.9	0.94	861	0.59
SS34	16.8	0.11	0.51	0.14	0.069	0.02	8.5	8.4	1.19	776	0.82
SS35	18.05	0.11	0.56	0.12	0.078	0.01	7.2	7.8	0.93	649	0.9
SS36	13.95	0.09	0.73	0.17	0.06	0.01	3.6	4.9	0.61	325	0.69
SS37	16.3	0.07	0.7	0.19	0.067	0.01	3	3.6	0.42	266	0.66
SS38	12.35	0.13	0.78	0.05	0.045	0.02	5.1	5	1.08	581	0.88
SS39	9.18	0.21	0.44	0.05	0.036	0.02	4.3	2.9	0.8	648	0.42
SS40	14.5	0.07	0.73	0.16	0.062	0.02	3.1	4.5	0.46	386	0.92
SS41	9.07	0.08	0.58	0.23	0.062	0.01	3.5	4.3	0.46	242	0.45
SS42	8.53	0.15	0.35	0.02	0.031	0.04	4.5	3.7	0.74	663	0.32
SS43	15.35	0.08	0.31	0.1	0.055	0.02	3.5	4.1	0.35	529	1.25
SS44	17.6	0.06	0.48	0.12	0.056	0.02	5.3	3.7	0.34	284	0.79
SS45	15.75	0.08	0.71	0.15	0.057	0.01	2.9	3.6	0.41	238	0.51
SS46	15.3	0.09	0.8	0.13	0.071	0.01	3.1	4	0.43	388	0.55

Station No.	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
SS47	20.9	0.07	0.7	0.17	0.076	0.01	2.7	3.6	0.28	257	0.7
SS48	13.65	0.08	0.35	0.1	0.056	0.01	4.1	4.1	0.5	618	0.9
SS49	13.6	0.09	1.02	0.17	0.081	0.01	4.2	5	0.47	252	1.03
SS50	12.6	0.1	0.42	0.14	0.049	0.01	4.7	3.9	0.58	391	0.86
SS51	17.2	0.07	0.61	0.15	0.083	0.01	2.1	4.8	0.27	228	0.51
SS52	14.9	0.08	0.67	0.12	0.072	0.01	3.4	5.3	0.73	378	0.62
SS53	12.5	0.13	0.76	0.13	0.06	0.01	3.9	3.9	0.84	414	0.61
SS54	13.3	0.1	0.67	0.15	0.06	0.01	4.2	3.5	0.64	547	0.67
SS55	17.1	0.08	1.01	0.24	0.075	0.01	3	3.7	0.47	423	0.58
SS56	14.2	0.11	0.5	0.13	0.06	0.01	4.7	4.8	0.79	685	2.9
SS57	12.85	0.11	0.71	0.05	0.053	0.01	4.1	3.3	0.7	562	0.47
SS58	14.1	0.11	0.76	0.13	0.057	0.01	4.6	3.6	0.59	426	0.63
SS59	11.35	0.16	0.51	0.07	0.044	0.01	5.9	3.3	0.73	535	0.57
SS60	10.5	0.19	0.55	0.08	0.038	0.01	4.7	2.8	0.68	392	0.43
SS61	10.05	0.15	0.35	0.22	0.049	0.01	5.3	2.8	0.57	470	1.05
SS62	14.6	0.09	0.74	0.13	0.054	0.01	3.9	4.9	0.47	351	0.59
SS63	13.95	0.07	0.26	0.21	0.056	0.02	2.8	3.9	0.31	1280	0.88
SS64	16.35	0.07	0.68	0.12	0.075	0.04	5.2	7.8	0.93	992	0.86
SS65	18.35	0.07	0.62	0.18	0.08	0.01	2.5	4.1	0.27	252	1.45
SS66	14.35	0.07	0.7	0.13	0.054	0.01	4.3	4.7	0.6	325	0.54
SS67	15.35	0.11	0.81	0.11	0.068	0.01	3	6.2	0.45	256	0.67
SS68	14.9	0.11	0.65	0.18	0.054	0.01	2.8	4.3	0.41	397	0.64
SS69	15.85	0.1	1.09	0.22	0.098	0.01	3.2	9.7	0.66	361	0.98
SS70	14.75	0.1	0.88	0.13	0.069	0.01	2.6	5.2	0.43	306	0.57
SS71	14.1	0.12	0.32	0.09	0.066	0.01	3.6	4.4	0.64	457	0.9
SS72	14.75	0.09	0.4	0.25	0.072	0.02	2.6	10.4	0.5	833	1.71
SS73	13.55	0.11	0.14	0.15	0.059	0.02	5.6	4.9	0.4	4860	1.35
SS74	11.2	0.14	0.31	0.23	0.058	0.01	5.4	4.4	0.43	258	1.11
SS75	13.6	0.13	0.15	0.17	0.057	0.01	6.3	4.4	0.48	5360	1.01
SS76	17.35	0.12	0.34	0.2	0.067	0.01	4.8	3.6	0.29	312	1.56
SS77	12.25	0.09	0.2	0.24	0.039	0.02	2.1	2.2	0.18	486	0.8
SS78	16.1	0.11	0.88	0.24	0.062	0.01	3.4	3.9	0.3	161	0.63
SS79	17	0.09	0.78	0.19	0.101	0.01	3.3	3.2	0.2	113	0.92
SS80	17.35	0.09	0.28	0.11	0.045	0.02	2.9	4.2	0.31	200	1.17
SS81	18.85	0.1	0.71	0.19	0.062	0.01	2.1	3.1	0.33	169	0.44
SS82	8.97	0.19	0.51	0.03	0.023	0.03	5	3.7	0.82	429	0.38
SS83	13.35	0.11	0.22	0.26	0.067	0.01	6.1	6.9	0.44	6160	6.7
SS84	19.7	0.09	0.57	0.13	0.073	0.02	3.1	5.3	0.34	294	1.03
SS85	18	0.08	0.98	0.12	0.072	0.02	2	3.6	0.32	192	0.46
SS86	10	0.12	0.83	0.17	0.056	0.01	3.1	3	0.49	412	0.69
SS87	21.3	0.08	0.69	0.17	0.085	0.01	2.3	4.5	0.22	276	0.68
SS88	25.4	0.11	1.14	0.16	0.098	0.01	3.4	4.9	0.57	399	0.56
SS89	19.15	0.07	0.41	0.08	0.054	0.02	3.4	6.1	0.26	293	3.98
SS90	7.08	0.13	0.46	0.26	0.034	0.01	4.2	3.1	0.46	265	1.69
SS91	9.62	0.13	1.08	0.23	0.049	0.01	3.6	4.6	0.63	280	0.71
SS92	10.8	0.09	0.91	0.19	0.056	0.01	3.6	5.5	0.36	199	0.76

Station No.	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
SS93	6.75	0.14	0.13	0.04	0.021	0.03	5.9	3.1	0.44	433	0.56
SS94	12.1	0.1	0.59	0.16	0.045	0.01	4.4	4.8	0.61	383	0.8
SS95	14.8	0.06	0.43	0.16	0.043	0.02	1.9	3.9	0.45	500	0.69
SS96	14.45	0.07	0.34	0.21	0.049	0.02	2.4	3.3	0.31	641	1.26
SS97	9.18	0.17	0.5	0.06	0.032	0.02	4.7	4.8	0.9	639	0.95
SS98	9.47	0.18	0.39	0.04	0.03	0.03	4.9	5.2	1.01	992	0.76
SS99	17.85	0.09	0.8	0.15	0.066	0.01	2.4	5.6	0.4	214	0.72
SS100	19.05	0.09	0.27	0.1	0.062	0.01	3.9	8.1	0.54	554	0.71
SS101	25.8	0.1	1.01	0.16	0.083	0.01	3.2	3.7	0.32	207	0.77
SS102	16.2	0.1	0.94	0.18	0.071	0.01	3.2	5.6	0.33	305	0.7
SS103	14.4	0.11	0.83	0.17	0.063	0.01	3.5	3.6	0.52	308	0.49
SS104	9.73	0.2	0.63	0.02	0.037	0.01	5	3.5	0.94	548	0.26
SS105	10.65	0.19	0.67	0.04	0.041	0.01	5.8	3.8	1.01	590	0.27
SS106	9.45	0.21	0.56	0.03	0.036	0.01	4.7	3.2	0.85	540	0.33
SS107	11.15	0.14	0.33	0.06	0.04	0.02	5.3	5.7	0.83	586	1.08
SS108	10.5	0.08	0.17	0.19	0.037	0.02	5	2.5	0.19	140	1.16
SS109	10.5	0.17	0.26	0.11	0.036	0.02	6.3	5.9	0.85	673	2.55
SS110	14.8	0.1	0.27	0.21	0.058	0.01	4.8	6.8	0.4	551	6.88
SS111	17.8	0.09	0.29	0.19	0.074	0.01	3.7	7.9	0.44	304	9
SS112	17.25	0.08	0.12	0.26	0.051	0.01	5.9	6.2	0.43	500	22.4
SS113	24.2	0.08	0.13	0.09	0.075	0.01	4	7.9	0.38	1050	4.92
SS114	4.08	0.07	0.03	0.36	0.021	0.02	4.9	2.5	0.14	5370	0.58
SS115	11.95	0.11	0.31	0.24	0.064	0.01	4.5	5	0.4	208	3.95
SS116	14.1	0.11	0.67	0.23	0.056	0.02	5.6	5.5	0.62	404	1.15
SS117	15.6	0.08	0.34	0.27	0.06	0.01	4.5	6.5	0.28	151	2.21
SS118	20	0.09	0.22	0.13	0.056	0.04	2.9	6.8	0.67	552	1.01
SS119	11.85	0.12	0.22	0.16	0.039	0.02	3.2	5.9	0.72	1380	1.24
SS120	11	0.13	0.19	0.2	0.036	0.02	3.8	5.8	0.74	1660	1.11
SS121	13.45	0.12	0.65	0.16	0.05	0.01	6.1	5.7	0.54	318	1.02
SS122	13.3	0.11	0.88	0.19	0.053	0.01	4.4	5.8	0.41	240	0.91
SS123	17.35	0.09	0.26	0.19	0.068	0.01	4	7.6	0.37	283	1.86
SS124	16.3	0.1	0.52	0.2	0.055	0.02	4.1	6.4	0.46	282	1.68
SS125	14.9	0.13	0.71	0.25	0.058	0.02	5.4	5.6	0.47	375	1.16
SS126	8.11	0.17	0.35	0.05	0.025	0.02	4.3	4.7	0.77	475	0.57
SS127	13.8	0.09	0.27	0.27	0.055	0.01	3.2	6	0.36	774	1.57
SS128	22.8	0.08	0.72	0.16	0.055	0.01	2.3	5.8	0.21	189	0.81
SS129	11	0.1	0.29	0.28	0.053	0.01	3.2	5.5	0.39	490	1.5
SS130	17	0.09	0.47	0.24	0.052	0.01	3.8	7.5	0.34	202	1.63
SS131	15.3	0.1	0.59	0.27	0.073	0.01	4.3	7.1	0.42	256	2.5
SS132	14.15	0.09	0.39	0.22	0.051	0.02	3.2	6.7	0.39	423	1.1
SS133	17.8	0.1	0.97	0.27	0.075	0.01	3.7	5.4	0.44	303	0.89
SS134	11.95	0.11	0.61	0.21	0.05	0.01	4.1	4.7	0.46	307	0.99
SS135	21.4	0.09	0.59	0.26	0.068	0.01	3.8	5.4	0.19	264	1.36
SS136	8.33	0.08	0.13	0.55	0.04	0.02	1.8	1.8	0.16	1050	0.76
SS137	10.15	0.11	0.11	0.34	0.047	0.03	4.3	5	0.4	5330	1.29
SS138	10.85	0.1	0.15	0.4	0.051	0.02	3.7	4.5	0.38	4090	1.36

Station No.	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
SS139	9.29	0.13	0.36	0.28	0.04	0.01	4.9	4.9	0.62	923	0.87
SS140	15.5	0.08	0.57	0.31	0.065	0.01	2.9	5.3	0.27	400	0.92
SS141	17.7	0.1	0.37	0.19	0.075	0.01	3.5	8.9	0.54	410	0.9
SS142	14.65	0.11	0.36	0.25	0.051	0.01	6.7	8.1	0.54	315	0.93
SS143	11.3	0.16	0.52	0.14	0.045	0.01	4.3	4.4	0.78	424	0.9
SS144	11.25	0.16	0.16	0.14	0.038	0.07	3	8.2	1.09	1220	1.22
SS145	10.85	0.17	0.37	0.11	0.041	0.03	4.7	6.7	1.03	797	1.03
SS146	10.4	0.2	0.34	0.09	0.039	0.02	4.3	5.9	0.95	1440	1.18
SS147	12.45	0.19	0.19	0.04	0.034	0.19	3.1	19.4	1.86	870	0.62
SS148	6.59	0.13	0.17	0.08	0.027	0.04	6.2	4.2	0.54	571	0.48
SS149	11.1	0.22	0.68	0.03	0.044	0.02	4.7	5.4	1.08	671	0.34
SS150	18.35	0.1	0.25	0.19	0.061	0.02	3.5	7.7	0.39	402	1.12
SS151	23.7	0.11	0.78	0.23	0.11	0.01	3.8	4.1	0.35	169	1.02
SS152	13.4	0.12	0.77	0.17	0.054	0.01	4.4	4.3	0.67	426	0.59
SS153	22.7	0.1	1.1	0.19	0.075	0.01	3.8	3.9	0.3	184	0.53
SS154	25.1	0.09	0.81	0.19	0.074	0.01	2.4	3.7	0.21	174	0.61
SS155	17	0.11	0.43	0.28	0.063	0.01	3.6	4.8	0.43	242	1.15
SS156	13.15	0.09	0.49	0.44	0.055	0.02	2.7	3.3	0.24	887	1.62
SS157	10.9	0.09	0.23	0.23	0.05	0.01	3.9	4.7	0.31	143	2.09
SS158	8.52	0.11	0.68	0.38	0.054	0.01	3	3.1	0.16	102	1.15
SS159	14.8	0.1	1.19	0.34	0.073	0.01	2.9	3.4	0.23	92	0.91
SS160	13.4	0.1	0.88	0.18	0.052	0.01	3.7	5.3	0.42	177	1.22
SS161	15.8	0.09	0.39	0.28	0.056	0.01	3.8	4.1	0.18	96	1.09
SS162	17.1	0.1	0.39	0.28	0.081	0.01	3.6	4.4	0.24	166	1.14
SS163	13.35	0.11	0.83	0.27	0.067	0.01	3	5.9	0.38	461	0.83
SS164	21.3	0.09	0.38	0.23	0.072	0.01	3	5.8	0.29	177	1.28
SS165	10.6	0.12	0.21	0.13	0.032	0.03	4.3	4.8	0.7	500	1.11
SS166	16	0.09	0.44	0.31	0.057	0.01	3.6	5.8	0.24	179	2.28
SS167	6.44	0.11	0.83	0.54	0.05	<0.01	6.1	1.7	0.04	36	1.38
SS168	9.64	0.15	0.24	0.07	0.027	0.02	5.2	4.8	0.66	556	1.47
SS169	12	0.1	0.47	0.16	0.047	0.01	4	5.9	0.37	162	1.15
SS170	13	0.09	0.42	0.17	0.05	0.01	3.8	4.8	0.36	158	1.06
SS171	13.6	0.09	0.33	0.24	0.044	0.01	4.2	4.5	0.28	180	1.38
SS172	17.35	0.1	0.99	0.31	0.067	0.01	3.7	4.1	0.22	126	1.97
SS173	13.75	0.1	0.51	0.34	0.079	0.01	3.7	2.3	0.14	104	1.04
SS174	14.15	0.1	0.49	0.26	0.053	0.01	3.3	3.5	0.33	163	0.91
SS175	16.35	0.08	0.5	0.28	0.064	0.01	4.8	5.6	0.18	160	1.5
SS176	12.5	0.08	0.22	0.31	0.042	0.02	2	2	0.19	288	1.12
SS177	14.6	0.09	0.42	0.23	0.052	0.01	3	5.1	0.29	213	1.64
SS178	14.35	0.1	0.21	0.1	0.056	0.02	5.3	7.6	0.64	470	3.18
SS179	12.15	0.12	0.3	0.19	0.046	0.02	4.3	5.8	0.63	246	1.26
SS180	10.2	0.16	0.43	0.15	0.046	0.01	9.5	3.9	0.5	588	1.33
SS181	20.9	0.09	0.38	0.21	0.066	0.01	4.1	4.5	0.27	151	1.1
SS182	11.65	0.13	0.51	0.2	0.05	0.01	4.2	4.7	0.63	408	1.11
SS183	15.15	0.09	1.34	0.1	0.061	0.01	3.9	7.6	0.47	259	1.15
SS184	14.8	0.11	0.34	0.13	0.063	0.01	6.4	6.6	0.45	1220	1.03

Station No.	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
SS185	14.95	0.11	0.91	0.19	0.059	0.01	5.2	6	0.71	354	0.81
SS186	17.45	0.1	1.01	0.27	0.066	0.01	4.8	6	0.49	310	1.1
SS187	14.65	0.1	0.38	0.21	0.057	0.01	4.3	5.3	0.59	445	1.38
SS188	22.5	0.11	0.54	0.23	0.068	0.01	3.4	4.8	0.26	218	0.72
SS189	15.4	0.11	0.71	0.26	0.063	0.01	2.8	3.8	0.35	175	0.92
SS190	16.95	0.1	0.71	0.23	0.059	0.01	2.7	3.1	0.27	137	0.62
SS191	18.2	0.09	1.02	0.35	0.072	0.01	3	3.5	0.28	164	0.89
SS192	15.65	0.1	0.77	0.16	0.062	0.01	4.5	5.7	0.47	200	0.81
SS193	18	0.1	0.9	0.18	0.068	0.01	3.6	7.1	0.48	260	0.98
SS194	16.5	0.09	0.54	0.24	0.074	0.01	2.6	6	0.33	184	0.68
SS195	14.85	0.1	0.84	0.28	0.064	0.01	3.8	4.3	0.39	518	0.69
SS196	15.05	0.12	0.76	0.24	0.063	0.01	3.5	5.1	0.67	431	0.53
SS197	20.9	0.09	0.82	0.29	0.072	0.01	2.9	4.7	0.3	377	0.68
SS198	45.7	0.09	0.4	0.11	0.092	0.01	1.8	3.9	0.31	184	2.67
SS199	18.05	0.11	1.21	0.32	0.104	0.01	3.2	4.6	0.3	135	1.09
SS200	16.25	0.09	1.53	0.18	0.091	0.01	2.2	4	0.35	174	0.59
SS201	12.2	0.11	1.33	0.2	0.047	0.01	3.3	4.8	0.52	227	0.82
SS202	12.3	0.1	0.8	0.24	0.057	0.01	3.8	3.9	0.39	286	0.83
SS203	14.05	0.11	0.42	0.12	0.03	0.03	1.9	4.9	0.91	414	0.59
SS204	15.75	0.07	0.41	0.25	0.077	0.01	2.5	3.7	0.32	169	1.22
SS205	22.6	0.09	0.79	0.21	0.09	0.01	2.3	5.9	0.32	167	0.67
SS206	12.1	0.08	0.63	0.27	0.058	0.01	5.3	4.4	0.38	207	1.44
SS207	10.95	0.1	0.48	0.13	0.038	0.01	2.5	5.4	0.98	428	0.42
SS208	11.1	0.1	0.41	0.21	0.042	0.01	3.6	4.3	0.66	433	0.61
SS209	14.7	0.09	0.57	0.23	0.061	0.01	3.8	5.2	0.51	551	1.02
SS210	9.72	0.1	0.72	0.44	0.055	0.01	6.6	3.5	0.28	370	1.06
SS211	15	0.09	0.69	0.15	0.057	0.01	3	3	0.46	289	0.44
SS212	15.15	0.08	0.58	0.18	0.055	0.01	2.2	4.2	0.28	314	0.52
SS213	10.15	0.1	0.28	0.11	0.045	0.02	4.4	5.5	0.72	987	1.26
SS214	12.2	0.1	0.63	0.22	0.055	0.01	3.8	3.7	0.47	716	0.82
SS215	21.9	0.09	0.88	0.36	0.113	0.01	2.5	2.7	0.17	103	0.62
SS216	8.94	0.12	1.5	0.14	0.059	0.01	2.8	3	0.47	254	0.83
SS217	11.75	0.1	0.44	0.07	0.034	0.02	3.1	4.2	0.71	484	0.62
SS218	6.85	0.14	0.18	0.19	0.03	0.02	4.6	2.9	0.61	2740	0.37
SS219	15.9	0.09	0.64	0.1	0.056	0.01	2	4.8	0.35	313	0.47
SS220	13.45	0.09	0.89	0.16	0.067	0.01	3.4	6.7	0.45	394	0.77
SS221	3.94	0.05	0.05	0.22	0.016	0.03	0.9	0.3	0.04	81	0.27
SS222	20.8	0.08	0.55	0.15	0.074	0.01	3.4	6.2	0.49	557	0.8
SS223	14.05	0.09	1.16	0.27	0.076	0.01	3	4.7	0.39	236	0.58
SS224	11.25	0.13	0.58	0.13	0.041	0.01	3.8	3.5	0.74	519	0.4
SS225	23.1	0.11	0.64	0.12	0.075	0.02	2.8	5.1	0.55	536	0.87
SS226	17.1	0.1	0.93	0.19	0.07	0.01	2.8	3.2	0.43	212	0.47
SS227	15.2	0.1	0.94	0.2	0.07	0.01	3.4	4.8	0.4	422	0.55
SS228	22.9	0.08	0.79	0.21	0.085	0.02	1.8	6.5	0.46	275	0.47
SS229	12.4	0.08	0.27	0.15	0.085	0.01	4.2	10.7	0.61	241	0.61
SS230	11.15	0.12	0.68	0.15	0.065	0.01	3.5	3.7	0.45	607	0.66

Station No.	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
SS231	14.1	0.15	0.55	0.11	0.059	0.02	3.3	5.4	1.02	620	0.42
SS232	14.1	0.12	0.53	0.16	0.084	0.01	2.9	5.6	0.66	543	0.92
SS233	15	0.11	0.81	0.24	0.082	0.01	3.1	5.3	0.58	304	0.54
SS234	15.7	0.17	1.14	0.18	0.131	0.01	3.4	5.6	0.93	350	0.71
SS235	15.5	0.15	0.92	0.14	0.066	0.01	5.4	3.7	0.61	550	0.53
SS236	24.4	0.11	0.71	0.16	0.067	0.01	3.1	3	0.22	248	0.49
SS237	17.8	0.12	0.31	0.18	0.092	0.01	3.6	7.1	0.6	375	0.89
SS238	18.15	0.13	0.69	0.12	0.076	0.02	3.6	7.3	0.54	765	0.91
SS239	14.1	0.13	0.41	0.12	0.059	0.01	6.5	10.9	0.62	320	1.79
SS240	15.4	0.11	0.49	0.28	0.067	0.02	3.5	6.7	0.3	199	1.22
SS241	11.45	0.16	0.6	0.11	0.043	0.01	4	5.1	0.94	552	0.43
SS242	17.75	0.14	0.96	0.2	0.083	0.01	2.8	4.7	0.47	379	0.6
SS243	21.9	0.12	0.67	0.13	0.063	0.01	2.3	3.5	0.58	430	0.53
SS244	11.2	0.18	0.21	0.13	0.046	0.01	5.7	5.4	0.91	4660	1.07
SS245	15.2	0.12	0.73	0.25	0.067	0.01	3.2	4.3	0.32	336	0.55
SS246	12.1	0.23	0.4	0.16	0.044	0.01	10.1	7.8	1	1100	0.61
SS247	17.5	0.12	0.76	0.16	0.079	0.01	3.3	5.2	0.48	540	0.79
SS248	12.45	0.12	0.32	0.26	0.058	0.01	3.8	4.9	0.36	1080	0.48
SS249	19.25	0.12	0.56	0.18	0.062	0.01	2.6	4.1	0.66	676	0.55
SS250	13.95	0.14	1.19	0.24	0.075	0.01	3	5.1	0.55	261	0.53
SS251	18.15	0.12	0.63	0.11	0.067	0.01	2.6	4.9	0.53	517	0.55
SS252	20.6	0.13	1.23	0.18	0.093	0.01	4	6.2	0.27	215	1.93
SS253	22.8	0.11	0.45	0.22	0.074	0.02	3.1	4.7	0.47	529	0.89
SS254	16	0.12	0.54	0.17	0.066	0.02	3.8	6.2	0.67	478	0.48
SS255	13.55	0.11	0.46	0.24	0.067	0.01	3.6	6.5	0.46	278	0.55
SS256	18.25	0.12	0.56	0.17	0.077	0.01	3.3	5.6	0.42	266	0.65
SS257	18.45	0.12	0.66	0.18	0.083	0.01	3.7	8.5	0.56	317	0.91
SS258	15.8	0.13	0.39	0.19	0.096	0.01	6.1	8.7	0.52	653	0.88
SS259	15.35	0.12	0.42	0.23	0.073	0.01	6	9.1	0.27	233	1.28
SS260	10.75	0.26	0.53	0.07	0.043	0.01	4.2	3.4	0.87	614	0.34
SS261	15.7	0.13	0.54	0.06	0.061	0.02	2.4	5.1	0.62	425	0.63
SS262	10.9	0.12	0.63	0.42	0.058	0.01	5.4	4.7	0.36	316	0.78
SS263	12.6	0.13	0.71	0.33	0.068	0.01	5.5	5.2	0.46	270	0.87
SS264	17.7	0.11	1.03	0.32	0.102	0.01	2.3	6	0.33	235	0.5
SS265	10.95	0.21	0.49	0.1	0.043	0.01	6.2	3.4	0.89	731	0.44
SS266	24.2	0.11	0.43	0.14	0.091	0.02	2.4	3.4	0.45	721	0.46
SS267	16	0.12	0.51	0.41	0.102	0.01	3.9	4.5	0.28	509	0.69
SS268	14.4	0.11	0.52	0.21	0.068	0.02	3.9	4.1	0.68	662	0.98
SS269	14.35	0.1	0.72	0.23	0.078	0.01	3.1	4.1	0.42	445	0.77
SS270	10.65	0.17	1.08	0.24	0.066	0.01	5.2	3.5	0.63	555	0.61
SS271	16.7	0.13	0.48	0.19	0.083	0.01	4.4	4.7	0.59	453	0.9
SS272	20.2	0.12	0.45	0.16	0.103	0.01	4.5	6.1	0.72	624	1.02
SS273	25.6	0.1	1.35	0.25	0.104	0.01	4.1	4.4	0.21	169	0.69
SS274	13.8	0.1	0.23	0.18	0.046	0.04	3.9	5.8	0.75	849	0.94
SS275	13.15	0.12	0.73	0.29	0.081	0.01	3.4	3.3	0.37	400	0.55
SS276	19.3	0.1	0.55	0.21	0.068	0.01	4	5.6	0.33	639	0.58

Station No.	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
SS277	6.25	0.08	0.25	0.42	0.03	0.02	2.7	1.7	0.21	963	0.28
SS278	26	0.08	0.54	0.28	0.077	0.01	2.5	3.9	0.27	533	0.65
SS279	15	0.08	0.5	0.67	0.083	0.01	2.5	5	0.17	1070	0.44
SS280	5.38	0.07	0.13	0.22	0.022	0.03	1.1	1.4	0.16	498	0.36
SS281	15.55	0.09	0.63	0.2	0.081	0.01	4.1	7.9	0.47	328	0.66
SS282	15.55	0.13	0.24	0.18	0.074	0.01	6.4	6	0.57	1780	1.23
SS283	19.8	0.11	0.56	0.16	0.095	0.01	3.7	9.2	0.43	575	0.56
SS284	16.8	0.1	0.62	0.14	0.08	0.01	3.2	6.4	0.67	419	0.85
SS285	14.05	0.11	1.13	0.27	0.087	0.01	3.3	4.9	0.45	323	0.59
SS286	18	0.12	0.94	0.27	0.096	0.01	3.3	5.8	0.48	361	0.66
SS287	13.45	0.1	0.24	0.22	0.064	0.02	3.9	5	0.72	1640	0.61
SS288	13.7	0.12	0.54	0.3	0.081	0.01	3.8	4	0.32	308	0.53
SS289	19.45	0.1	0.76	0.43	0.106	0.01	3.3	3.8	0.3	371	0.65
SS290	14.35	0.11	0.49	0.22	0.068	0.01	5.3	5	0.4	538	0.64
SS291	13.95	0.11	0.81	0.25	0.067	0.01	4.7	4.6	0.4	316	0.6
SS292	17.05	0.1	0.28	0.16	0.075	0.01	3.1	4.3	0.61	681	0.55
SS293	15.25	0.09	0.46	0.15	0.064	0.01	3	5.6	0.61	647	0.53
SS294	15.1	0.11	0.8	0.12	0.062	0.01	3.1	3.8	0.56	360	0.51
SS295	20.1	0.11	0.78	0.17	0.089	0.01	3.2	5.3	0.39	365	0.56
SS296	16.35	0.11	1.07	0.2	0.087	0.01	3.4	5.4	0.6	434	0.58
SS297	15.15	0.14	1.19	0.23	0.081	0.01	4.5	5.4	0.77	515	0.66
SS298	10.55	0.1	0.62	0.44	0.059	0.01	3.7	3.1	0.31	500	0.61
SS299	12.7	0.12	0.36	0.2	0.06	0.01	4.9	4.4	0.63	1290	0.5
SS300	15.3	0.11	0.39	0.16	0.082	0.01	4.2	6.3	0.52	508	0.78
SS301	13.85	0.15	0.59	0.13	0.064	0.01	5.4	4.5	0.8	601	0.52
SS302	12.2	0.15	0.45	0.11	0.051	0.02	4.9	4.1	0.9	1210	0.75
SS303	15.2	0.14	0.41	0.13	0.069	0.01	6.2	4.8	0.72	749	0.54
SS304	13.3	0.1	0.53	0.13	0.064	0.01	9.5	5.1	0.72	575	0.73
SS305	12.4	0.1	0.52	0.11	0.061	0.02	5.4	5	0.85	601	0.5
SS306	16.3	0.09	0.73	0.14	0.075	0.01	6.1	4.4	0.52	325	0.55
SS307	17.45	0.07	0.4	0.16	0.076	0.01	4.9	5.3	0.39	287	0.73
SS308	17.3	0.07	0.58	0.13	0.078	0.01	4.2	4.5	0.51	404	0.56
SS309	12.75	0.09	0.55	0.2	0.066	0.01	5	4.6	0.47	749	0.99
SS310	11	0.08	0.13	0.33	0.067	0.03	5.3	3	0.21	4230	0.89
SS311	15.75	0.06	0.24	0.26	0.084	0.02	4.2	5	0.37	3270	1.14
SS312	13.5	0.06	0.24	0.15	0.052	0.01	3.5	4.3	0.18	179	1.2
SS313	12	0.06	0.15	0.09	0.049	0.01	4.3	3.5	0.3	215	0.57
SS314	10.9	0.06	0.16	0.23	0.048	0.02	5.9	3.6	0.27	1440	0.75
SS315	16.35	0.05	0.24	0.21	0.073	0.02	5.7	5.9	0.23	176	1.02
SS316	9.07	0.14	0.27	0.11	0.037	0.03	7.5	5	0.77	733	0.39
SS317	11.9	0.08	0.69	0.19	0.055	0.01	4.5	4.1	0.54	332	0.45
SS318	17.15	0.09	1.28	0.17	0.102	0.01	5.3	5	0.4	303	0.99
SS319	15.9	0.06	0.27	0.09	0.064	0.01	3.8	8.4	0.59	984	1.31
SS320	17	0.06	0.67	0.12	0.073	0.01	2.1	6.4	0.42	226	0.51
SS321	14.5	0.08	0.95	0.12	0.075	0.01	1.9	6.3	0.77	370	0.47
SS322	12.8	0.08	0.44	0.32	0.068	0.01	3.8	6.9	0.69	389	0.62

Station No.	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
SS323	14.25	0.06	0.56	0.1	0.064	0.01	2.5	3.5	0.36	343	0.68
SS324	15.7	0.07	0.96	0.16	0.076	0.01	3	5	0.45	357	0.44
SS325	20.2	0.06	0.47	0.2	0.099	0.01	3.1	4	0.3	371	1.25
SS326	27.9	0.07	0.97	0.28	0.123	0.01	2.7	3.5	0.31	195	0.52
SS327	21.9	0.06	0.43	0.2	0.086	0.01	3.5	4.6	0.27	367	0.44
SS328	13.9	0.07	0.44	0.16	0.068	0.01	5.8	5.9	0.4	299	0.66
SS329	21.9	0.06	0.87	0.19	0.079	0.01	4.2	5.6	0.21	247	0.65
SS330	13.55	0.06	0.52	0.12	0.056	0.01	3.1	4.3	0.48	537	0.51
SS331	13.35	0.05	0.6	0.21	0.066	0.02	2.7	4.8	0.44	544	0.58
SS332	20.7	0.05	0.72	0.21	0.089	0.01	1.7	3.2	0.3	259	0.48
SS333	18.45	0.07	0.36	0.21	0.086	0.01	5.1	5.1	0.35	647	0.77
SS334	15.4	0.08	0.81	0.22	0.071	0.01	4.8	5	0.38	295	0.79
SS335	16.25	0.07	0.69	0.21	0.07	0.01	4.6	4.8	0.46	426	0.69
SS336	13.5	0.07	0.61	0.29	0.063	0.01	3.5	5.4	0.37	387	0.67
SS337	10	0.08	0.59	0.24	0.053	0.01	5	4.8	0.48	353	0.65
SS338	15.85	0.07	0.7	0.13	0.067	0.01	3.9	4.9	0.57	398	0.58
SS339	13.95	0.07	0.79	0.11	0.066	0.02	2.6	5.2	0.68	360	0.63
SS340	16.05	0.07	0.52	0.11	0.072	0.01	4.1	5	0.49	364	1.38
SS341	17.2	0.07	0.85	0.13	0.075	0.01	3.6	5.2	0.51	357	0.53

Station No.	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm
SS01	0.02	2.96	30.7	410	3	0.7	<0.001	0.02	0.11	13.9	0.6
SS02	0.01	5.15	14.5	410	6.1	0.8	<0.001	0.06	0.17	14	0.5
SS03	0.01	1.08	27.8	870	5.4	0.7	0.005	0.33	0.14	5.7	3.2
SS04	0.01	0.19	3.4	540	18	1	<0.001	0.12	0.35	0.3	0.5
SS05	0.02	2.32	35.3	650	1.9	0.6	<0.001	0.02	0.05	19.3	0.4
SS06	0.01	4.64	23.6	350	4.3	0.7	<0.001	0.05	0.12	17.7	0.9
SS07	0.01	4.32	28	480	2.8	0.8	<0.001	0.03	0.09	19.7	1
SS08	0.01	6.09	14.9	540	8.6	0.7	<0.001	0.06	0.21	11.8	1.2
SS09	0.01	5.04	18.7	540	7	0.7	<0.001	0.05	0.22	12.3	1
SS10	0.01	5.27	26.3	450	3.5	1.3	<0.001	0.04	0.12	16.9	1.1
SS11	0.01	5.47	20	360	6.5	0.8	<0.001	0.04	0.12	11.3	0.7
SS12	0.01	4.35	13.7	410	9.1	0.8	<0.001	0.05	0.25	13.3	0.8
SS13	<0.01	4.63	11.9	420	1.8	0.6	0.001	0.07	0.09	27.5	2.1
SS14	0.01	4.47	34.8	260	1.8	0.7	<0.001	0.03	0.07	26.4	0.5
SS15	0.01	4.75	20.2	480	2.4	0.7	<0.001	0.04	0.09	15.1	0.8
SS16	0.03	2.74	25.7	490	11.2	1.1	<0.001	0.04	0.23	8.1	0.2
SS17	0.01	3.08	6.5	340	10.2	0.4	<0.001	0.08	0.3	1.3	0.4
SS18	0.02	4.48	20.8	550	9.7	1.5	<0.001	0.06	0.18	13.8	0.6
SS19	0.01	5.13	14.6	530	3	0.7	<0.001	0.07	0.12	23.2	1.7
SS20	0.01	5.43	15.7	490	5.3	0.8	<0.001	0.07	0.25	10.3	1.3
SS21	0.01	4.88	23.6	390	2.8	0.8	<0.001	0.05	0.11	8.6	0.8
SS22	0.01	4.69	18.2	430	5.2	0.6	<0.001	0.06	0.17	8	0.8
SS23	0.01	5.22	19.5	430	3.6	0.8	0.001	0.06	0.14	13	1
SS24	0.01	4.66	14.7	370	8.5	0.7	<0.001	0.07	0.29	8	0.6
SS25	0.02	1.07	18.5	920	21.5	0.8	0.002	0.16	0.22	3.3	2.6
SS26	0.03	3.11	61.3	430	6.3	1.2	<0.001	0.04	0.2	8.8	1
SS27	0.01	4.53	15.5	490	3.4	0.5	<0.001	0.06	0.19	14	1
SS28	0.01	4.51	37.3	320	3.2	1.1	<0.001	0.04	0.14	19.5	0.9
SS29	0.01	0.65	6.1	380	4.1	0.9	<0.001	0.12	0.1	0.7	0.4
SS30	0.01	4.98	10.4	590	6.5	0.6	<0.001	0.07	0.26	10.8	1.3
SS31	0.01	5.02	10.2	300	8.2	0.6	<0.001	0.07	0.36	4.2	0.7
SS32	0.01	2.54	21	830	2.1	0.8	<0.001	0.05	0.13	19.3	1.7
SS33	0.02	2.78	39.4	640	8.5	2.7	<0.001	0.01	0.13	15.5	0.7
SS34	0.01	3.34	72	610	2.5	1.8	<0.001	0.02	0.07	20.6	1.3
SS35	0.01	3.44	58.3	610	3.5	2.4	<0.001	0.01	0.09	18.4	0.8
SS36	0.01	4.49	35.8	620	3.9	1.6	<0.001	0.02	0.11	14.7	0.9
SS37	0.01	4.47	21.2	500	3.8	1.2	<0.001	0.03	0.12	12.5	0.7
SS38	0.02	2.06	42.3	440	7.3	1.7	<0.001	<0.01	0.11	15.3	0.2
SS39	0.02	2.62	25.3	350	3.7	0.8	<0.001	0.01	0.06	11.2	0.5
SS40	0.01	4.68	28.4	330	5.1	1.2	<0.001	0.03	0.09	13.6	0.7
SS41	0.01	4.01	25.8	510	1.4	1.1	<0.001	0.03	0.07	15.3	1.3
SS42	0.03	1.35	28.1	570	1.5	3	<0.001	<0.01	0.06	12.1	0.3
SS43	0.01	3.66	22.2	330	6	1.4	<0.001	0.02	0.14	7.7	0.4
SS44	0.01	4.06	20.9	380	8	2.6	<0.001	0.03	0.17	7.9	0.4
SS45	0.01	2.93	24.4	370	4.7	1.3	<0.001	0.02	0.1	13.2	0.6
SS46	0.01	4.23	29.2	350	2.3	1.3	<0.001	0.02	0.08	14.6	0.3

Station No.	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm
SS47	0.01	4.8	19.7	400	4.9	1.2	<0.001	0.03	0.14	11.4	0.4
SS48	0.01	3.9	25.9	310	3.4	1.3	<0.001	0.03	0.09	10	0.4
SS49	0.01	4.78	37.7	410	2.1	1.5	<0.001	0.03	0.07	18.9	1
SS50	0.01	4.15	33.8	360	2.1	1.3	<0.001	0.03	0.08	13.8	0.9
SS51	<0.01	4.45	17.6	390	2.9	1.4	<0.001	0.02	0.1	8.5	0.4
SS52	0.01	2.79	34.9	630	2.4	2.6	<0.001	0.01	0.09	19.1	0.6
SS53	0.01	3.46	38.4	550	1.7	1.2	<0.001	0.02	0.06	18.5	0.9
SS54	0.01	4.03	31.2	440	5.1	1.2	<0.001	0.02	0.1	16.4	0.7
SS55	0.01	5.14	27.2	600	8.3	1.8	<0.001	0.03	0.2	15.1	0.6
SS56	0.01	3.8	37	560	5	1.4	<0.001	0.02	0.09	15.2	0.7
SS57	0.01	2.79	27.8	590	4	1.9	<0.001	0.01	0.09	14.2	0.4
SS58	0.01	4.01	29.3	500	4.7	1.4	<0.001	0.02	0.09	19.4	0.9
SS59	0.01	3.16	31.1	520	1.9	0.6	<0.001	0.01	0.06	15.6	1
SS60	0.01	3.38	25.5	560	2.1	0.7	<0.001	0.01	0.06	13	0.8
SS61	0.01	3.43	23.7	690	5.9	0.6	0.001	0.04	0.05	13.5	1.5
SS62	0.02	3.9	24.4	600	7.8	1.6	<0.001	0.02	0.13	11.5	0.7
SS63	0.01	4.36	17.3	350	6.4	1.7	<0.001	0.03	0.16	6.6	0.3
SS64	0.02	2.28	30.2	610	9	3.5	<0.001	0.01	0.17	14.4	0.6
SS65	0.01	5.47	14.7	350	5.6	0.9	<0.001	0.03	0.17	8.3	0.6
SS66	0.01	3.26	30.3	400	2.6	1.6	<0.001	0.01	0.09	16.9	0.6
SS67	0.01	3.99	30.2	520	2.8	1.1	0.001	0.03	0.1	16.9	0.4
SS68	0.01	4.25	19.9	540	8.6	1	<0.001	0.04	0.21	11.4	0.5
SS69	0.01	3.9	35.8	400	7	4.1	<0.001	0.06	0.11	22	1
SS70	0.01	4.95	26.9	490	3.1	2	<0.001	0.04	0.09	14.7	0.6
SS71	0.01	3.71	27	390	3	1	<0.001	0.03	0.07	10.6	0.4
SS72	0.01	5.17	22.6	470	10.9	3.1	<0.001	0.06	0.23	10.6	0.7
SS73	0.01	3.45	28.7	520	14	1.5	<0.001	0.06	0.15	8.9	0.4
SS74	0.01	3.76	30.3	510	1.9	0.6	<0.001	0.06	0.06	15.9	1.1
SS75	0.01	2.7	37.1	340	3.7	1	0.001	0.05	0.1	11.8	0.6
SS76	0.01	4.35	19.8	950	9.9	1.1	<0.001	0.06	0.12	9.8	0.5
SS77	0.01	4.23	10.7	780	9.9	1.4	<0.001	0.08	0.21	4.9	0.5
SS78	0.02	4.4	18.2	1070	2.9	0.8	<0.001	0.03	0.09	10.3	0.4
SS79	0.01	5.95	11.9	600	2	0.9	<0.001	0.06	0.09	13.7	0.9
SS80	0.01	4.94	17.2	710	3.9	1.6	0.001	0.05	0.11	6.8	0.4
SS81	0.01	4.83	17.4	530	3.1	0.8	0.001	0.04	0.14	9.8	0.4
SS82	0.03	1.75	27.7	730	1.2	1.3	<0.001	0.01	0.06	9.1	0.2
SS83	0.01	3.27	36.5	670	3	1.4	<0.001	0.07	0.1	21.4	1.7
SS84	0.01	4.38	21.5	580	3.1	1.4	<0.001	0.07	0.15	12.9	0.8
SS85	0.01	3.35	16.1	540	2.6	1.3	<0.001	0.05	0.1	11.3	0.5
SS86	0.01	4.04	28.3	730	1	0.6	<0.001	0.06	0.05	18.4	1.4
SS87	0.01	3.19	14.4	640	4.9	1	<0.001	0.04	0.12	10.6	0.5
SS88	0.01	2.4	29.2	510	3.3	1.2	<0.001	0.04	0.09	17.2	0.6
SS89	0.02	2.82	19.5	430	5.7	1.4	<0.001	0.03	0.15	8.2	0.4
SS90	0.02	2.83	23.1	810	1.3	0.7	<0.001	0.05	0.06	17.5	1.7
SS91	0.01	3.79	31	510	1.2	0.8	<0.001	0.05	0.06	23.5	1.8
SS92	0.01	4.06	27.6	360	2.2	1	<0.001	0.04	0.08	17.7	1.4

Station No.	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm
SS93	0.03	1.78	16.2	690	2.3	2	<0.001	0.02	0.09	6.9	0.2
SS94	0.02	3.98	26.4	610	3.4	1.2	<0.001	0.04	0.12	17.2	1.3
SS95	0.02	3.48	18.9	560	5.2	1.5	<0.001	0.05	0.19	8.5	0.5
SS96	0.02	4.4	16.9	500	9.2	1.7	<0.001	0.05	0.23	7.4	0.6
SS97	0.05	2.7	30.2	650	6.8	1.7	0.001	0.02	0.1	11.5	0.5
SS98	0.06	2.51	33	810	3.5	2.2	<0.001	0.02	0.12	10.6	0.8
SS99	0.01	3.87	18.9	340	3.5	1.3	<0.001	0.03	0.11	13.7	0.8
SS100	0.01	4.9	27.3	380	5.5	1.6	<0.001	0.04	0.12	8.7	0.8
SS101	0.01	4.26	17	290	3.4	1	<0.001	0.03	0.12	18.7	0.9
SS102	0.01	4.81	26.5	440	4.2	1.2	<0.001	0.04	0.16	19.5	1
SS103	0.02	4.13	24.1	510	2.4	0.8	<0.001	0.04	0.09	16.9	0.9
SS104	0.02	1.48	30.3	520	1	0.6	<0.001	0.01	<0.05	14.8	0.5
SS105	0.02	2.15	36.2	690	0.7	0.7	<0.001	0.01	<0.05	18	0.6
SS106	0.02	2.06	26.4	510	1	0.7	<0.001	0.01	<0.05	13	0.5
SS107	0.03	3.17	38	610	5.4	1.3	<0.001	0.03	0.15	11.7	0.7
SS108	0.01	3.36	14.9	460	7.3	1.5	<0.001	0.08	0.2	5.7	0.8
SS109	0.03	2.87	45.4	770	3	1.4	0.003	0.04	0.18	14.3	1
SS110	0.01	4.31	33.8	380	5.2	1.4	0.001	0.05	0.18	11.8	1.5
SS111	0.01	5.17	31.7	420	3.7	1.5	0.001	0.04	0.15	10.1	1.2
SS112	0.01	3.59	30.9	720	5	1.4	0.005	0.12	0.17	9.2	1.7
SS113	0.01	3.51	21.4	290	5.3	1.5	0.001	0.03	0.16	5.7	0.6
SS114	0.01	0.98	34.8	820	9.7	0.7	<0.001	0.14	0.22	4.3	1.7
SS115	0.01	3.73	36.5	610	1.9	1.2	<0.001	0.07	0.11	12.2	2.2
SS116	0.02	4.3	35.1	640	4.6	1.3	<0.001	0.04	0.21	16	1.7
SS117	0.01	4.59	21.1	620	3.2	1.3	<0.001	0.06	0.14	12.7	2
SS118	0.05	3.73	38.2	540	8.1	1.9	<0.001	0.04	0.24	6.8	0.9
SS119	0.03	3.09	38.2	580	6.7	1.3	<0.001	0.06	0.18	9.4	0.6
SS120	0.02	2.94	42.2	670	6.4	1.3	<0.001	0.07	0.16	10.2	1.2
SS121	0.01	4.12	40.2	640	2.4	1	<0.001	0.04	0.13	20.7	1
SS122	0.01	4.17	34.5	500	2.6	1.4	<0.001	0.04	0.12	20.2	1
SS123	0.01	5.03	30.6	510	3.6	1.2	<0.001	0.05	0.15	10.2	0.8
SS124	0.01	4.5	33.3	460	3.1	1.2	<0.001	0.04	0.19	15	0.8
SS125	0.02	4.68	32.3	550	5.1	1.2	<0.001	0.05	0.18	18.4	1.2
SS126	0.03	2.32	29.4	400	1.6	1.3	<0.001	0.02	0.09	8.8	0.4
SS127	0.02	3.77	31.8	550	5.3	1.1	<0.001	0.06	0.18	10.5	1.1
SS128	0.01	2.81	19.2	250	6.1	0.8	<0.001	0.03	0.25	9.7	0.3
SS129	0.01	4.23	29.4	570	2.3	0.8	0.001	0.06	0.12	10.4	1.8
SS130	0.02	4.67	30.2	470	3.5	1.1	0.001	0.05	0.16	14.9	1.3
SS131	0.01	4.45	40.5	580	2.4	0.8	<0.001	0.05	0.12	18.8	1.2
SS132	0.02	4.18	37.5	600	2.9	1.4	<0.001	0.06	0.13	10.7	0.9
SS133	0.01	5.26	32.4	500	3.5	1	<0.001	0.05	0.16	19.1	1.2
SS134	0.01	4.05	30	740	2.5	0.9	<0.001	0.06	0.18	17.1	1.3
SS135	0.01	5.63	19.2	490	5.4	0.7	0.001	0.06	0.21	12.1	1.3
SS136	0.01	3.18	16.6	740	21.9	1.3	<0.001	0.14	0.46	4.6	0.9
SS137	0.02	2.28	45.2	790	8.5	1.5	<0.001	0.08	0.27	13.3	1.1
SS138	0.02	3.15	32.4	640	12.5	1.6	<0.001	0.08	0.25	10.3	1.4

Station No.	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm
SS139	0.02	3.37	32.8	700	4.8	0.9	<0.001	0.06	0.09	16.9	1.3
SS140	0.01	4.94	18.5	530	4.6	0.9	<0.001	0.07	0.13	11.3	1.4
SS141	0.01	5.1	35.9	400	3.5	1.3	<0.001	0.06	0.09	11.2	1
SS142	0.01	3.9	36.8	530	3.6	1.2	0.001	0.05	0.15	19.3	0.9
SS143	0.02	3.58	32.2	430	1.7	0.6	0.001	0.03	0.07	16.1	0.7
SS144	0.05	2.56	46	660	7.9	2.2	<0.001	0.06	0.21	9.1	0.6
SS145	0.03	3.14	40.4	490	2.6	1.1	0.001	0.04	0.24	14.9	0.5
SS146	0.02	3.03	37.3	420	2.2	0.9	0.001	0.05	0.11	13.1	0.4
SS147	0.03	2.09	53.6	480	2	6.1	0.001	0.03	0.17	9.7	0.4
SS148	0.03	2.29	30.1	680	1.9	1.2	<0.001	0.12	0.15	8	0.4
SS149	0.03	1.02	40.4	410	1.1	1	<0.001	<0.01	0.07	19.1	<0.2
SS150	0.02	5.24	25.5	550	3.8	1.1	<0.001	0.07	0.32	9.3	1
SS151	0.01	6.17	17.8	380	2.3	0.8	<0.001	0.05	0.1	16	0.8
SS152	0.02	4.06	29.7	520	3.5	1	<0.001	0.03	0.1	18.7	0.8
SS153	0.01	4.36	19.1	310	3.4	0.7	<0.001	0.04	0.12	19	0.9
SS154	0.01	3.37	13.8	360	7.3	0.8	<0.001	0.04	0.19	11.7	0.4
SS155	0.01	4	27.7	510	3.6	1	<0.001	0.04	0.19	14.5	1.1
SS156	0.01	4.13	18.4	460	6.5	1	0.001	0.07	0.34	11.3	2
SS157	0.01	3.45	24.4	670	2.2	0.6	0.001	0.06	0.13	10.9	2.2
SS158	0.01	2.65	20.5	600	1.7	0.6	0.001	0.08	0.1	17.8	2.2
SS159	0.01	4.28	15.4	260	2.6	0.5	<0.001	0.07	0.17	18.7	2.6
SS160	0.01	4.16	28.2	410	2.5	1.2	<0.001	0.04	0.17	18.2	1.6
SS161	0.01	4.73	12.9	380	3.2	0.5	<0.001	0.05	0.21	9.7	1.3
SS162	0.01	4.7	14.1	580	3.2	0.8	<0.001	0.06	0.15	11	2
SS163	0.01	4.05	26.4	480	2.5	0.9	<0.001	0.05	0.17	17.3	1.4
SS164	0.01	5.36	18.9	410	4.1	1.1	<0.001	0.04	0.2	7.7	1.1
SS165	0.05	2.68	31	860	5.3	1.5	<0.001	0.04	0.14	9.8	0.8
SS166	0.01	4.77	19.3	560	3.2	1.1	<0.001	0.05	0.24	10.5	1.7
SS167	<0.01	1.79	6.6	970	1.3	0.4	0.001	0.09	0.11	20.7	4
SS168	0.03	2.46	30.1	680	2.6	1.3	0.001	0.02	0.16	9.5	0.4
SS169	0.01	3.86	27.3	540	2.7	1.5	<0.001	0.04	0.15	13	1.4
SS170	0.01	4.06	21.8	440	2.6	1	<0.001	0.04	0.16	14.3	1.2
SS171	0.01	3.94	16.9	490	3.1	1.2	<0.001	0.05	0.17	10.4	1.4
SS172	0.01	4.75	12.9	470	2.8	1	<0.001	0.07	0.18	21.2	1.7
SS173	<0.01	3.6	11.7	720	2.3	0.7	<0.001	0.07	0.11	11.1	2.3
SS174	0.01	4	17.1	350	2.6	0.7	<0.001	0.04	0.14	10.5	1.4
SS175	0.01	4.64	14.9	510	4.5	1.1	0.001	0.06	0.19	15	1.5
SS176	0.01	4.28	13.8	500	10.1	1	<0.001	0.1	0.34	4.5	1.2
SS177	0.01	4.72	22.1	380	4.1	1	0.001	0.05	0.23	10.5	1.5
SS178	0.02	3.35	42.9	630	3.8	1.7	0.005	0.03	0.21	13.2	0.8
SS179	0.02	3.51	35.4	530	3.5	1.1	<0.001	0.05	0.18	12.4	1.6
SS180	0.01	3.22	30.3	790	1.6	0.8	0.002	0.05	0.23	22.8	1
SS181	0.01	5.42	16.3	420	4	0.9	0.001	0.05	0.19	11.1	1
SS182	0.01	3.67	34.3	530	2.4	1	<0.001	0.05	0.17	16.1	1.2
SS183	0.01	4.25	42.5	370	4	1.5	<0.001	0.04	0.21	20.6	0.8
SS184	0.01	4.31	37	460	4.1	1.2	0.002	0.03	0.17	15	0.6

Station No.	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm
SS185	0.01	4.85	42	510	2.8	1	<0.001	0.03	0.15	22.6	0.8
SS186	0.01	5.08	32.3	520	3.4	1	<0.001	0.05	0.2	22.8	1.5
SS187	0.01	4.79	31.3	570	2.2	1	0.001	0.04	0.1	13.6	1
SS188	0.01	5.98	21	370	3	0.6	0.001	0.05	0.13	11.6	0.8
SS189	0.01	5.56	24	320	2.7	0.7	<0.001	0.05	0.12	14.7	0.9
SS190	0.01	5.86	18	340	2.8	0.7	<0.001	0.05	0.1	13.3	0.9
SS191	<0.01	6.32	17.8	390	3.2	0.5	<0.001	0.06	0.12	15.4	1.4
SS192	0.01	5.84	24.8	280	3.6	0.7	<0.001	0.04	0.08	17.7	1.3
SS193	0.01	4.94	32.1	310	13.3	1	<0.001	0.03	0.11	19.6	0.9
SS194	0.01	5.75	19	430	3.8	0.6	<0.001	0.05	0.11	9	0.8
SS195	0.01	4.92	21.7	450	4.4	0.6	<0.001	0.06	0.11	17.4	1.1
SS196	0.02	4.35	28.5	540	2.5	0.9	<0.001	0.04	0.08	15.6	1
SS197	0.01	4.26	19.3	490	9	0.9	<0.001	0.05	0.18	14.5	1
SS198	0.01	2.99	16	320	8.1	1.1	<0.001	0.03	0.16	4.8	0.3
SS199	0.01	5.39	17.3	500	2.5	0.5	<0.001	0.06	1.74	21.5	1.7
SS200	0.01	5.11	17.6	350	2.4	0.6	<0.001	0.06	0.47	25.8	1.2
SS201	0.01	5.13	25.3	490	1.6	0.7	0.001	0.06	0.07	25.4	2.3
SS202	0.01	5.19	17.6	430	2.1	0.5	<0.001	0.07	0.09	17.2	2.3
SS203	0.05	4.05	36.4	290	9.5	1.2	<0.001	0.04	0.13	5.5	0.9
SS204	0.01	6.88	14.9	340	3.5	0.6	<0.001	0.06	0.1	7.4	1.6
SS205	0.01	5.81	15.7	380	2.8	0.7	<0.001	0.06	0.11	12.9	1.4
SS206	0.01	5.49	16.9	440	1.9	0.7	<0.001	0.06	0.06	16.9	2.1
SS207	0.01	4.31	31.3	320	2.8	0.9	<0.001	0.03	0.05	9.2	1.1
SS208	0.01	4.12	32.2	480	2.1	0.9	<0.001	0.05	0.06	13.6	1.2
SS209	0.01	4.89	34.9	440	3	1	<0.001	0.05	0.13	16.9	1.7
SS210	0.01	4.23	25.3	670	1.4	1	<0.001	0.08	0.09	26.1	2.8
SS211	0.01	4	19.3	380	3.5	0.6	<0.001	0.03	0.09	13.3	1
SS212	0.01	3.84	15.9	530	4.2	1.3	<0.001	0.03	0.13	9	0.6
SS213	0.02	3.57	33	610	4.9	1.3	<0.001	0.06	0.12	11	1
SS214	0.01	4.57	25.1	530	4.5	1.3	<0.001	0.05	0.11	18.9	1
SS215	0.01	6.75	10.5	430	2	0.5	<0.001	0.07	0.11	13.6	1.3
SS216	0.01	3.76	19.4	600	1	0.5	0.001	0.06	0.07	22.7	1.9
SS217	0.01	3.23	25.5	490	9.3	1.2	<0.001	0.03	0.13	7.3	0.6
SS218	0.02	2.31	30	600	6.7	0.8	<0.001	0.08	0.08	9.8	1.1
SS219	0.01	4.11	25.6	390	3.8	1.6	<0.001	0.03	0.23	9.1	0.9
SS220	0.01	4.73	32.8	490	2.9	2	<0.001	0.04	0.09	16	1.3
SS221	0.01	2.13	4.1	560	21	1	<0.001	0.07	0.53	1.5	0.4
SS222	0.01	4.35	23.9	540	5.5	1.4	<0.001	0.04	0.15	15.6	0.9
SS223	0.01	4.36	25.6	440	2.8	1	<0.001	0.05	0.1	20.9	1.2
SS224	0.01	3.73	24.1	700	3	0.7	<0.001	0.03	0.08	12.5	0.9
SS225	0.01	3.02	18.8	430	14.7	0.9	<0.001	0.03	0.28	11.2	0.8
SS226	0.01	4.88	19.6	380	3.9	0.8	<0.001	0.05	0.11	13.9	1
SS227	0.01	4.45	22.8	420	3.2	1.1	<0.001	0.04	0.1	18.6	0.9
SS228	0.01	2.92	20.5	170	6	1.7	0.001	0.03	0.24	14	0.7
SS229	0.01	4.13	28.4	340	7	2.1	<0.001	0.04	0.12	16.5	1.2
SS230	0.01	4.43	19.1	480	8.2	1	<0.001	0.06	0.16	13.3	1.4

Station No.	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm
SS231	0.01	3.67	30.1	380	3.9	1.4	<0.001	0.03	0.19	17.8	0.8
SS232	0.01	4.38	28.3	450	2.5	0.8	<0.001	0.04	0.08	15.2	1.1
SS233	0.01	5.06	23.1	430	4.1	0.8	<0.001	0.06	0.12	17.8	1.1
SS234	0.01	4.52	29.5	450	5.7	0.7	<0.001	0.06	0.14	22.1	1.7
SS235	0.01	4.09	28.4	600	2.7	0.9	<0.001	0.04	0.12	19.1	1.1
SS236	0.01	3.24	12.5	360	3.6	0.5	0.001	0.02	0.15	10.4	0.6
SS237	0.01	4.98	30.6	430	2.8	1.1	<0.001	0.04	0.08	10.9	1.1
SS238	0.01	3.31	28.5	360	2.9	1.5	0.001	0.04	0.11	14	0.7
SS239	0.01	4.58	44.4	360	2	0.7	0.006	0.05	0.09	17.2	1.8
SS240	0.01	5.75	14.9	510	7.2	1.5	<0.001	0.07	0.22	9.7	0.9
SS241	0.01	3.4	33.8	450	2.8	0.9	<0.001	0.03	0.09	13.2	0.8
SS242	0.01	3.99	23.7	510	4.5	1.2	<0.001	0.06	0.1	14.6	0.8
SS243	0.01	3	20.5	440	9.2	1.1	<0.001	0.03	0.18	8.5	0.5
SS244	0.02	2.43	44.5	560	6.6	0.8	0.001	0.06	0.15	14.7	1.1
SS245	0.01	6.05	19.1	510	2.4	0.9	<0.001	0.06	0.09	13.7	1.4
SS246	0.02	2.99	41	690	1.6	0.6	0.001	0.04	0.1	22.1	1.8
SS247	0.01	4.6	22.8	420	5.4	1.2	<0.001	0.05	0.11	13.5	1.1
SS248	0.01	4.06	30.4	580	2.8	0.8	<0.001	0.06	0.07	15.3	1.6
SS249	0.01	4.72	22	480	5.7	1	<0.001	0.06	0.15	10.2	1
SS250	0.01	4.95	27.6	360	2.1	0.8	<0.001	0.04	0.09	20.8	1.3
SS251	0.01	3.03	21.5	420	9.1	0.8	<0.001	0.03	0.32	9.7	0.7
SS252	0.01	3.67	19.7	430	26.5	1	0.001	0.04	0.14	17.9	0.9
SS253	0.01	4.71	18.8	560	14	1.3	<0.001	0.05	0.36	8.5	0.7
SS254	0.01	3.63	43.9	490	3.3	1.6	<0.001	0.03	0.11	15.7	1
SS255	0.01	5	33.4	570	1.9	1	<0.001	0.04	0.07	14.2	1
SS256	0.01	5.23	29.7	330	2.4	0.9	<0.001	0.04	0.09	11.2	1
SS257	0.01	4.91	34	320	3	1.6	0.001	0.03	0.1	13.3	1
SS258	0.01	4.49	39	590	3.8	2	<0.001	0.04	0.12	18.1	1.2
SS259	0.01	4.95	26.3	400	11	1	<0.001	0.04	0.1	15.8	1.3
SS260	0.01	2.71	33.2	480	0.8	0.6	<0.001	0.01	<0.05	13.2	0.7
SS261	0.01	3.21	35.2	690	3	2	<0.001	0.02	0.1	10.7	0.6
SS262	0.01	5.03	25.6	550	2.1	1.1	<0.001	0.05	0.06	19.3	1.7
SS263	0.01	4.79	28.5	600	2.5	1.3	<0.001	0.04	0.07	19.3	1.5
SS264	0.01	5.81	21	510	2.1	0.9	<0.001	0.05	0.08	12.5	1
SS265	0.01	2.89	33.7	550	1	0.8	<0.001	0.02	0.05	15.4	0.9
SS266	0.01	4.2	20.7	600	8.3	1.4	<0.001	0.04	0.17	8	0.4
SS267	0.01	5.08	15.9	1230	1.8	0.7	<0.001	0.06	0.08	17.7	2.2
SS268	0.03	3.85	28.8	630	5.1	0.9	<0.001	0.03	0.73	14.1	1.1
SS269	0.01	4.68	21	910	2.1	0.8	<0.001	0.05	0.08	17.5	1.4
SS270	0.01	3.94	32.6	510	0.8	0.7	<0.001	0.04	<0.05	27.3	1.7
SS271	0.01	4.82	32.5	470	2.3	1.1	<0.001	0.05	0.08	14.9	1.1
SS272	0.01	4.81	36.5	570	2.3	1.3	<0.001	0.04	0.07	16.3	1.4
SS273	0.01	3.74	14.7	490	3.5	0.8	<0.001	0.04	0.1	20.2	1.3
SS274	0.03	3.14	26.4	500	3.7	1.4	<0.001	0.04	0.16	12.8	0.9
SS275	0.01	4.42	22.8	590	1.9	0.6	<0.001	0.05	0.07	17.7	1.4
SS276	0.01	3.37	24.9	580	3	1.1	<0.001	0.03	0.09	16.6	0.9

Station No.	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm
SS277	0.01	2.97	15.3	450	10.3	0.8	<0.001	0.08	0.23	6	1.2
SS278	0.01	3.58	13.2	550	8.1	1	<0.001	0.03	0.16	9.3	0.7
SS279	0.01	5.5	15	720	4.1	1	<0.001	0.08	0.12	9.2	1.3
SS280	0.01	2.48	8.4	440	3.6	0.9	<0.001	0.08	0.1	2.9	0.6
SS281	0.01	5.29	34.3	350	2.7	1.7	<0.001	0.04	0.11	16.2	1.2
SS282	0.01	3.28	44.9	380	2.1	1.3	0.001	0.04	0.17	20.3	1.4
SS283	0.01	4.95	29.1	270	3.3	1.4	<0.001	0.03	0.08	10.2	0.8
SS284	0.01	4.61	35.9	370	2.1	1.7	<0.001	0.03	0.08	15.2	0.9
SS285	0.01	4.8	25.1	440	1.7	0.9	<0.001	0.05	0.07	19.4	1.2
SS286	0.01	5.59	25.6	390	2.5	1.1	<0.001	0.04	0.09	15.8	1.3
SS287	0.01	3.96	32.2	470	2.1	1.2	<0.001	0.05	0.07	12.7	1
SS288	0.01	4.99	21.4	520	1.6	0.9	<0.001	0.06	0.07	14.7	1.6
SS289	0.01	5.85	17	440	1.9	0.7	<0.001	0.05	0.07	13.7	1.3
SS290	0.01	4.12	24.9	500	2.2	1.2	<0.001	0.04	0.07	19.2	1.1
SS291	0.01	4.67	26.9	470	2.1	0.9	<0.001	0.03	0.08	19.3	1.1
SS292	0.01	4.13	23.9	570	3.8	1.6	<0.001	0.04	0.09	10.6	0.6
SS293	0.01	3.97	28	480	3.1	1.6	<0.001	0.03	0.09	11.9	0.6
SS294	0.01	3.93	26.4	380	2.6	1.1	<0.001	0.03	0.08	13.6	0.6
SS295	0.01	4.2	24.1	420	2.8	0.8	<0.001	0.04	0.08	14.1	0.9
SS296	0.01	3.86	30.4	510	2	1.1	<0.001	0.03	0.07	18.2	1.1
SS297	0.01	3.63	42.7	500	1.5	1.2	<0.001	0.03	0.07	26.4	1.3
SS298	0.01	5.14	20	410	3.7	1	<0.001	0.07	0.11	11.3	1.4
SS299	0.01	3.91	32.7	430	3.2	1.1	<0.001	0.05	0.08	15	1
SS300	0.01	4.72	33.5	560	2.2	1.9	<0.001	0.04	0.08	13	1.3
SS301	0.02	3.03	36.4	390	3.3	0.9	<0.001	0.03	0.07	18.8	1.1
SS302	0.02	2.86	35.6	500	3.8	1.2	<0.001	0.04	0.26	16.4	0.9
SS303	0.01	3.96	34.3	400	3.1	1.2	<0.001	0.04	0.07	17.5	1.1
SS304	0.02	4.32	46.9	430	4.4	1.1	0.001	0.05	0.07	23.2	0.5
SS305	0.02	4.15	42.6	450	2.9	1.2	<0.001	0.04	0.07	16.7	0.8
SS306	0.01	5.12	32.6	400	2.1	1.1	<0.001	0.03	0.07	20.6	0.7
SS307	0.01	6.09	25.7	350	3	1.1	<0.001	0.04	0.08	11.3	0.5
SS308	0.01	5.1	27.1	440	2.8	1	0.001	0.03	0.08	13.1	0.5
SS309	0.01	4.59	32.6	540	1.8	1.2	<0.001	0.04	0.07	17.9	1.1
SS310	0.01	3.47	17.7	590	9.9	1.2	<0.001	0.08	0.2	7.4	1.1
SS311	0.01	3.89	27	460	3.7	1.5	0.001	0.05	0.09	11.7	1
SS312	0.01	4.3	15.9	300	3.1	0.7	<0.001	0.04	0.1	10.1	0.9
SS313	0.01	4.01	17.7	270	2.6	1	<0.001	0.03	0.07	7.3	0.7
SS314	0.01	3.77	22.4	580	9.8	1.6	<0.001	0.07	0.18	7.5	0.7
SS315	0.01	5.13	17.9	750	3.5	1.6	<0.001	0.05	0.1	13.7	0.8
SS316	0.04	2.58	32.8	710	3.5	1.9	<0.001	0.04	0.08	13.8	0.3
SS317	0.01	4.47	33.9	490	1.8	0.9	<0.001	0.03	0.07	19.7	0.7
SS318	0.01	3.55	31	400	1.8	1.2	<0.001	0.09	0.07	20.4	0.8
SS319	0.01	4.15	34.5	280	2.8	1.4	<0.001	0.02	0.1	9.5	0.5
SS320	0.01	2.99	28	390	2.9	1.5	<0.001	0.01	0.1	10.1	0.4
SS321	0.01	3.72	44.6	390	1.8	1.4	<0.001	0.02	0.07	13.7	0.5
SS322	0.01	5.43	42.8	420	2.1	1.4	<0.001	0.04	0.09	12.1	1.2

Station No.	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm
SS323	0.01	5.59	18.2	370	2.5	0.7	<0.001	0.03	0.09	8.3	0.8
SS324	0.01	4.27	35.8	400	2.2	1.2	<0.001	0.02	0.08	19	0.5
SS325	0.01	5.88	19.5	420	2.7	0.8	<0.001	0.05	0.08	10.4	0.6
SS326	0.01	5.99	18.9	340	2.7	0.9	<0.001	0.1	0.11	10.3	0.7
SS327	0.01	4.74	19.5	570	3.4	0.8	<0.001	0.03	0.09	9.9	0.5
SS328	0.01	4.66	37.1	480	2.1	0.9	<0.001	0.03	0.08	17.8	0.7
SS329	0.01	4.85	20.8	280	3.5	0.7	<0.001	0.03	0.1	18.2	0.7
SS330	0.02	4.34	28.2	410	4.1	0.9	<0.001	0.03	0.1	11.9	0.5
SS331	0.01	4.65	28	630	4	1.4	<0.001	0.03	0.13	14	0.8
SS332	0.01	4.77	15.7	510	3.7	0.6	<0.001	0.03	0.13	9	0.5
SS333	0.01	5.02	24.7	510	3.2	1.2	0.001	0.04	0.09	13.2	0.6
SS334	0.01	4.8	34.6	380	2.2	1	<0.001	0.03	0.08	19.2	0.8
SS335	0.02	3.27	30.9	500	2.8	2	<0.001	0.01	0.1	16.4	0.8
SS336	0.01	4.59	33.7	570	2.7	1.8	<0.001	0.03	0.1	16.5	1
SS337	0.02	4.1	34.6	550	1.6	1.4	<0.001	0.04	0.07	18.3	1.3
SS338	0.01	3.08	40.3	430	2.6	1.9	<0.001	0.01	0.08	17.1	0.5
SS339	0.01	3.81	44.1	310	2.4	1.8	0.001	0.01	0.09	16	0.7
SS340	0.01	4.57	37.3	320	3.2	1.2	<0.001	0.02	0.1	13.7	0.8
SS341	0.01	3.14	34.4	320	3.1	2.1	0.001	0.01	0.1	16	0.5

Station No.	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm
SS01	0.7	45.5	0.04	0.02	0.4	0.574	<0.02	0.18	208	<0.05	11.15
SS02	1.1	10.9	0.11	0.01	0.5	0.72	<0.02	0.27	244	<0.05	5.61
SS03	0.3	41.3	0.01	0.01	<0.2	0.126	0.04	0.66	95	0.12	9.15
SS04	0.4	9.1	<0.01	<0.01	<0.2	0.022	<0.02	<0.05	13	<0.05	0.25
SS05	0.7	17.4	0.02	0.01	0.6	0.61	<0.02	0.25	213	0.06	17.2
SS06	1.2	10.6	0.11	0.02	0.7	0.939	<0.02	0.23	366	<0.05	9.65
SS07	1	14.4	0.1	0.02	0.6	0.827	<0.02	0.26	310	<0.05	14.5
SS08	1.4	8.7	0.16	0.01	0.8	0.899	<0.02	0.27	367	<0.05	6.13
SS09	1.2	15	0.15	0.01	0.6	0.828	<0.02	0.26	323	<0.05	7.94
SS10	1.4	15.1	0.13	0.04	0.8	1.075	0.02	0.28	412	<0.05	11.2
SS11	1.3	12.7	0.12	0.01	0.6	0.982	<0.02	0.28	315	<0.05	10.8
SS12	1.7	7.7	0.15	<0.01	0.9	1.105	<0.02	0.26	479	<0.05	4.48
SS13	0.8	5.2	0.01	0.04	1.1	0.58	<0.02	0.42	244	<0.05	14.55
SS14	0.9	11.6	0.1	0.01	0.8	0.763	<0.02	0.34	271	0.05	14.2
SS15	1.1	13	0.13	0.03	0.6	0.812	<0.02	0.29	312	<0.05	10.7
SS16	1	66.9	0.04	<0.01	0.3	0.606	<0.02	0.13	274	0.05	7.25
SS17	1.1	13.2	0.02	0.01	0.2	0.478	<0.02	0.06	261	<0.05	0.76
SS18	1.2	21.5	0.09	0.01	0.7	0.705	<0.02	0.28	298	<0.05	9.59
SS19	1	6.6	0.02	0.05	0.9	0.618	<0.02	0.46	252	<0.05	15.3
SS20	1.1	13.4	0.12	0.03	0.6	0.707	<0.02	0.28	325	<0.05	5.23
SS21	0.9	16.6	0.12	0.02	0.4	0.717	<0.02	0.34	245	<0.05	7.16
SS22	1.2	18.6	0.13	<0.01	0.5	0.734	<0.02	0.24	300	<0.05	5.62
SS23	1.1	9	0.14	0.01	0.6	0.787	<0.02	0.43	291	<0.05	8.97
SS24	1.2	16.5	0.12	0.02	0.5	0.735	<0.02	0.22	311	<0.05	4.71
SS25	0.5	27.8	0.01	0.01	<0.2	0.114	0.03	0.15	78	0.09	6.87
SS26	0.9	74.6	0.04	0.02	0.5	0.526	0.02	0.28	264	<0.05	5.08
SS27	0.9	9.3	0.01	0.02	0.9	0.554	<0.02	0.48	246	<0.05	6.86
SS28	1	12.5	0.02	0.02	1	0.726	0.02	0.44	278	<0.05	10.55
SS29	0.4	12.5	<0.01	0.01	<0.2	0.091	<0.02	0.07	53	<0.05	0.48
SS30	1.1	8.5	0.15	0.04	0.8	0.642	<0.02	0.44	301	<0.05	5.84
SS31	1.4	9.7	0.11	<0.01	0.4	0.714	<0.02	0.3	342	<0.05	3.09
SS32	0.4	19.6	0.01	0.04	0.6	0.292	0.03	1.03	120	0.08	23.2
SS33	0.8	40.3	0.01	0.02	0.8	0.571	0.03	0.4	212	0.08	17.45
SS34	1	22.3	0.01	0.02	0.8	0.743	0.02	0.33	289	0.06	23.2
SS35	1	17.1	0.02	0.03	0.8	0.805	0.02	0.33	312	0.05	20.5
SS36	1	17.4	0.05	0.01	0.7	0.75	<0.02	0.29	257	0.05	9.7
SS37	1.1	14.4	0.08	0.01	0.6	0.835	<0.02	0.26	336	<0.05	7.44
SS38	1	31.4	0.02	0.01	0.8	0.622	<0.02	0.29	226	0.05	13.2
SS39	0.6	25.3	0.02	0.01	0.3	0.533	<0.02	0.19	184	0.06	12.95
SS40	1	16.6	0.08	0.03	0.7	0.718	<0.02	0.3	281	<0.05	8.33
SS41	0.5	12.7	0.08	0.02	0.7	0.46	<0.02	0.32	171	0.08	8.1
SS42	0.6	30.1	<0.01	0.01	0.7	0.427	0.02	0.25	169	0.06	9.36
SS43	1.1	18.9	0.06	0.01	0.5	0.736	<0.02	0.23	340	<0.05	7.76
SS44	1.2	16.8	0.07	0.02	0.5	0.767	0.02	0.23	332	<0.05	8.3
SS45	1.2	13	0.08	0.01	0.6	0.874	<0.02	0.24	362	<0.05	8.16
SS46	1	15.8	0.1	0.01	0.7	0.854	<0.02	0.27	317	<0.05	9.29

Station No.	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm
SS47	1.5	13.5	0.13	0.01	0.6	1.025	<0.02	0.25	406	<0.05	6.86
SS48	1	20	0.05	0.01	0.5	0.71	0.02	0.27	279	<0.05	9.69
SS49	0.9	14.4	0.06	0.03	0.9	0.708	<0.02	0.38	259	0.07	15.85
SS50	0.8	17.5	0.07	0.03	0.6	0.663	<0.02	0.38	226	0.06	15
SS51	1.2	12.1	0.12	0.02	0.6	0.912	<0.02	0.22	346	<0.05	4.34
SS52	1	15.5	0.06	0.02	0.8	0.818	0.02	0.29	290	<0.05	10.25
SS53	0.8	18.9	0.07	0.02	0.7	0.672	<0.02	0.3	222	0.05	12.85
SS54	0.9	17.8	0.09	0.02	0.6	0.719	<0.02	0.3	269	<0.05	13.25
SS55	1.3	14.6	0.09	0.02	0.7	0.933	<0.02	0.25	351	<0.05	8.26
SS56	1.4	20.7	0.07	0.01	0.6	0.731	0.02	0.29	241	<0.05	12.65
SS57	1	18.8	0.07	0.01	0.6	0.702	<0.02	0.22	249	<0.05	12.4
SS58	1	16.5	0.08	0.02	0.7	0.85	<0.02	0.28	309	<0.05	14.45
SS59	0.8	24.8	0.05	0.01	0.5	0.628	<0.02	0.24	226	0.05	18.75
SS60	0.8	21.6	0.04	0.01	0.5	0.588	<0.02	0.24	202	0.06	14.4
SS61	0.6	19.1	0.07	0.02	0.4	0.529	<0.02	0.48	171	0.08	17.5
SS62	1	24	0.05	0.02	0.7	0.75	<0.02	0.26	271	<0.05	12.65
SS63	1.2	22.6	0.04	0.01	0.4	0.839	0.02	0.25	317	<0.05	5.85
SS64	1	38	0.02	0.03	0.9	0.591	0.03	0.34	232	0.05	12.95
SS65	1.2	14.3	0.12	0.02	0.7	0.9	<0.02	0.29	342	<0.05	4.78
SS66	1	19	0.04	0.02	0.7	0.801	<0.02	0.26	299	<0.05	12.25
SS67	1.1	14.6	0.08	0.01	0.8	0.801	0.02	0.28	305	<0.05	10.2
SS68	1.2	22.4	0.08	0.02	0.7	0.848	0.02	0.24	321	<0.05	7.82
SS69	0.8	15.8	0.02	0.03	0.9	0.541	0.03	0.25	254	0.05	13.15
SS70	1	16.5	0.08	0.01	0.7	0.742	<0.02	0.26	302	<0.05	8.07
SS71	1	20.3	0.08	0.01	0.4	0.802	<0.02	0.29	295	<0.05	13.7
SS72	1	20.9	0.08	0.02	0.6	0.606	0.02	0.27	326	0.08	6.06
SS73	1	25.4	0.03	0.03	0.4	0.627	0.04	0.27	250	<0.05	13.7
SS74	0.7	14.4	0.11	0.02	0.3	0.519	0.02	0.59	186	0.11	19.65
SS75	0.8	21.8	0.06	0.03	0.4	0.576	0.03	0.31	246	<0.05	16.8
SS76	1.2	15.7	0.1	0.01	0.7	0.817	0.02	0.45	299	<0.05	13
SS77	1	25.3	0.08	0.01	0.4	0.524	0.02	0.22	243	<0.05	3.9
SS78	1.1	15.9	0.05	0.02	0.9	0.909	<0.02	0.26	292	<0.05	11.55
SS79	0.8	11.6	0.04	0.02	0.8	0.584	<0.02	0.31	218	0.05	9
SS80	1.2	37.9	0.08	0.01	0.4	0.652	<0.02	0.22	267	<0.05	7.27
SS81	1.3	21.3	0.12	0.02	0.6	0.826	<0.02	0.19	333	<0.05	5.49
SS82	0.6	29.3	0.01	<0.01	0.6	0.448	0.02	0.25	170	0.07	13.3
SS83	1	14.7	0.07	0.03	0.6	0.681	0.04	0.58	253	0.05	16.6
SS84	1.2	16.2	0.06	0.02	0.6	0.888	0.02	0.28	349	<0.05	8.01
SS85	1.2	10.7	0.05	0.01	0.8	0.866	<0.02	0.21	365	<0.05	4.21
SS86	0.7	14.1	0.01	0.02	0.7	0.565	<0.02	0.36	214	0.05	11.55
SS87	1.6	11.2	0.06	0.02	0.6	1.075	<0.02	0.22	414	<0.05	4.56
SS88	1.6	12.9	0.04	0.02	0.8	1.115	<0.02	0.25	454	<0.05	9.83
SS89	1.3	38.7	0.05	0.03	0.7	0.815	<0.02	0.27	303	<0.05	6.84
SS90	0.4	19.5	0.01	0.04	0.6	0.324	<0.02	0.52	112	0.09	13.6
SS91	0.6	14.9	0.01	0.05	0.9	0.538	0.02	0.4	179	0.07	12.95
SS92	0.7	16	0.01	0.03	0.8	0.533	0.02	0.38	200	0.05	11.95

Station No.	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm
SS93	0.5	40.4	0.01	0.01	0.7	0.293	0.03	0.36	149	0.07	9.74
SS94	0.8	20.2	0.03	0.03	0.7	0.586	0.02	0.37	214	0.06	12.1
SS95	0.9	27.4	0.05	0.02	0.6	0.612	<0.02	0.22	278	<0.05	4.42
SS96	1.1	14.9	0.09	0.02	0.5	0.622	0.02	0.25	270	<0.05	4.79
SS97	0.7	36.5	0.02	0.02	0.8	0.465	0.02	0.35	174	0.13	12.35
SS98	0.7	38.2	0.02	0.01	0.6	0.475	0.03	0.28	184	0.1	12.3
SS99	1.2	13.7	0.09	0.02	0.8	0.855	<0.02	0.27	335	<0.05	5.64
SS100	1.4	18	0.03	0.03	0.5	1.08	0.02	0.25	326	<0.05	10.7
SS101	1.4	11.8	0.1	0.03	0.7	1.13	<0.02	0.26	448	<0.05	9.39
SS102	1.2	14.4	0.09	0.03	0.7	0.865	<0.02	0.28	332	<0.05	9.84
SS103	1.1	15.9	0.05	0.03	0.6	0.855	<0.02	0.3	324	<0.05	10.05
SS104	0.7	37	0.01	<0.01	0.5	0.597	<0.02	0.18	202	<0.05	15.35
SS105	0.7	26.4	0.04	0.02	0.6	0.612	<0.02	0.24	181	0.05	17
SS106	0.7	25.8	0.02	0.01	0.5	0.599	<0.02	0.2	201	<0.05	14.65
SS107	0.7	31.3	0.04	0.03	0.7	0.541	0.04	0.49	190	0.13	12.45
SS108	0.7	21.4	0.03	0.02	0.3	0.371	<0.02	0.23	149	0.08	8.8
SS109	0.5	34.2	0.01	0.04	0.6	0.402	0.03	1.2	158	0.14	18.95
SS110	0.9	23	0.08	0.04	0.5	0.633	0.03	0.62	232	0.09	14.1
SS111	1	15.5	0.06	0.03	0.6	0.644	0.03	0.57	229	0.08	8
SS112	1	22.5	0.07	0.01	0.3	0.556	0.08	0.55	157	0.06	9.68
SS113	1.4	24.3	0.02	0.02	0.7	0.836	0.03	0.35	320	<0.05	7.33
SS114	0.3	33	0.02	0.04	<0.2	0.128	0.05	0.21	59	0.06	9.98
SS115	0.6	20.1	0.01	0.05	0.5	0.453	0.02	0.76	151	0.08	13.35
SS116	0.8	27.4	0.02	0.03	0.9	0.553	0.03	0.59	214	0.11	15.2
SS117	0.8	17.3	0.06	0.04	0.6	0.542	0.03	0.63	233	0.09	10.8
SS118	1	39	0.05	0.04	0.5	0.586	0.03	0.36	256	0.15	6.21
SS119	0.8	36.6	0.03	0.01	0.5	0.498	0.03	0.43	196	0.13	9.62
SS120	0.6	33.2	0.03	0.01	0.4	0.433	0.04	0.47	156	0.08	12.15
SS121	0.8	20.9	0.01	0.02	0.8	0.647	0.03	0.51	240	0.06	19.85
SS122	0.8	14.1	0.01	0.03	0.8	0.629	0.02	0.5	221	0.06	14.6
SS123	1.2	18.3	0.08	0.02	0.5	0.781	0.02	0.55	275	0.06	13.6
SS124	1	25.8	0.02	0.03	0.7	0.65	0.02	0.44	255	0.05	13.55
SS125	1	30.2	0.03	0.02	0.7	0.721	0.02	0.66	259	0.05	16
SS126	0.5	31.5	0.02	<0.01	0.8	0.377	0.02	0.33	142	0.07	10.25
SS127	0.8	25.4	0.06	0.01	0.5	0.484	0.02	0.41	212	0.07	9.43
SS128	2	10.7	0.05	0.01	0.7	1.035	<0.02	0.35	488	<0.05	3.74
SS129	0.8	15.1	0.07	0.03	0.4	0.549	0.02	0.38	193	0.05	8.41
SS130	1.1	19	0.03	0.03	0.6	0.652	0.02	0.43	266	<0.05	10.6
SS131	0.8	14.7	0.01	0.03	0.7	0.606	0.02	0.41	257	<0.05	18.4
SS132	0.8	27.9	0.02	0.02	0.5	0.547	0.02	0.36	220	0.05	9.7
SS133	1.1	13.9	0.02	0.02	0.8	0.798	0.02	0.43	314	<0.05	12.5
SS134	0.7	13.7	0.01	0.02	0.7	0.494	0.02	0.56	191	0.06	11.5
SS135	1.6	9.3	0.11	0.03	0.7	0.964	0.02	0.43	437	<0.05	9.67
SS136	0.9	14.8	0.02	0.03	0.2	0.363	0.02	0.25	158	0.06	3.96
SS137	0.6	70.9	0.04	0.06	0.3	0.354	0.1	0.55	146	0.07	13.75
SS138	0.8	39.6	0.04	0.03	0.4	0.461	0.05	0.47	184	0.06	10.55

Station No.	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm
SS139	0.6	25.2	0.01	0.02	0.5	0.429	0.02	0.39	147	0.07	16.45
SS140	0.8	17.8	0.02	0.02	0.7	0.579	<0.02	0.34	215	0.06	7.54
SS141	1	22.3	0.09	0.02	0.5	0.742	<0.02	0.42	215	0.05	10.95
SS142	0.8	19	0.01	0.02	0.5	0.572	<0.02	0.52	188	0.05	21.2
SS143	0.7	23	0.02	0.02	0.5	0.576	<0.02	0.32	189	0.05	14.85
SS144	0.6	91.7	0.01	0.02	0.3	0.362	0.02	0.18	147	0.1	9.61
SS145	0.7	49.2	0.02	0.01	0.4	0.515	0.02	0.25	188	0.08	16.5
SS146	0.6	31.2	0.02	<0.01	0.4	0.51	0.02	0.21	182	0.07	15.95
SS147	0.4	57.9	0.01	0.02	0.3	0.455	0.07	0.27	179	0.07	12.85
SS148	0.4	62.9	0.02	0.01	0.2	0.29	<0.02	0.11	112	0.08	19.4
SS149	0.9	42.1	0.01	<0.01	0.4	0.581	<0.02	0.17	199	0.05	16
SS150	1.1	43.5	0.07	0.01	0.4	0.801	0.03	0.43	308	<0.05	13.6
SS151	1.1	12.3	0.13	0.01	0.7	0.857	<0.02	0.42	307	<0.05	8.77
SS152	0.9	21.2	0.02	0.02	0.7	0.694	<0.02	0.3	249	<0.05	14.7
SS153	1.5	10.5	0.08	0.01	0.7	1.025	<0.02	0.28	432	<0.05	11.7
SS154	1.9	8.7	0.09	0.01	0.7	1.005	<0.02	0.24	480	<0.05	4.85
SS155	0.9	16.2	0.01	0.03	0.8	0.528	0.03	0.57	216	0.07	10.85
SS156	0.8	9.3	0.04	0.02	0.8	0.48	0.02	0.57	203	0.08	6.68
SS157	0.6	14.5	0.02	0.02	0.5	0.373	0.02	0.62	130	0.08	10.9
SS158	0.4	7.9	<0.01	0.02	0.8	0.274	<0.02	0.73	103	0.08	12.05
SS159	0.7	7.9	0.01	0.02	1.3	0.437	<0.02	0.57	184	0.07	6.77
SS160	0.8	20.2	0.01	0.02	1	0.526	0.02	0.58	204	0.11	14.85
SS161	1	14.3	0.07	0.03	0.7	0.53	<0.02	0.49	244	0.07	7.74
SS162	0.8	13.5	0.08	0.04	0.8	0.484	<0.02	0.52	207	0.09	8.71
SS163	0.7	13.3	0.01	0.03	0.9	0.463	0.02	0.53	174	0.08	9.1
SS164	1.1	24.3	0.08	0.01	0.7	0.664	0.02	0.45	257	0.08	7.25
SS165	0.6	49.7	0.01	0.01	0.5	0.337	0.02	0.45	129	0.16	12.25
SS166	0.9	15.8	0.03	0.04	0.9	0.53	0.03	0.67	242	0.11	8.3
SS167	0.2	4.6	<0.01	0.05	1.2	0.135	<0.02	0.89	74	0.07	15.1
SS168	0.6	33.2	0.02	0.02	0.6	0.374	0.04	0.59	140	0.09	12.5
SS169	0.8	17.3	0.01	0.02	1	0.411	0.02	0.59	164	0.14	9.91
SS170	0.7	16.1	0.01	0.03	0.8	0.469	0.02	0.54	183	0.12	9.99
SS171	0.8	22.2	0.02	0.01	0.7	0.416	0.02	0.79	179	0.09	10.75
SS172	0.7	9.2	0.01	0.03	1.2	0.496	<0.02	0.59	228	0.09	16.5
SS173	0.5	14	0.05	0.02	0.7	0.366	0.03	0.54	140	0.06	8.92
SS174	0.7	15.6	0.05	0.02	0.9	0.465	<0.02	0.49	186	0.07	7.55
SS175	1.1	12.1	0.02	0.03	1.7	0.549	0.02	0.68	231	0.1	11
SS176	1	18.5	0.07	0.02	0.4	0.497	0.02	0.39	217	0.06	3.09
SS177	0.9	14.6	0.07	0.03	0.7	0.528	0.03	0.59	216	0.1	8.82
SS178	0.8	24.4	0.01	0.02	0.6	0.504	0.03	1.14	192	0.1	16.65
SS179	0.7	31.3	0.03	0.02	0.6	0.407	0.03	0.72	162	0.09	10.8
SS180	0.5	17.2	<0.01	0.02	0.6	0.407	0.03	9.93	160	0.13	31.4
SS181	1.3	12.5	0.09	<0.01	0.5	0.763	0.02	0.66	263	<0.05	9.7
SS182	0.6	16.3	0.01	0.02	0.7	0.462	0.03	0.7	152	0.07	12.35
SS183	1	13.1	0.01	0.02	1.2	0.65	0.03	0.62	262	0.05	12.35
SS184	1	22.9	0.02	0.01	0.7	0.584	0.03	1.18	201	0.05	20.1

Station No.	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm
SS185	1	17.4	0.02	0.02	0.9	0.706	0.02	0.53	262	0.07	17.55
SS186	1.2	13.2	0.05	0.02	0.9	0.802	0.02	0.54	313	<0.05	14.9
SS187	1	19.3	0.05	0.02	0.5	0.708	0.02	0.48	204	0.05	12.25
SS188	1.5	12.1	0.12	0.02	0.5	0.965	0.02	0.37	403	<0.05	10.4
SS189	1	14.6	0.11	0.02	0.6	0.76	<0.02	0.28	289	<0.05	9.08
SS190	1.1	11.8	0.11	0.01	0.6	0.754	<0.02	0.29	297	<0.05	6.81
SS191	1.1	10.6	0.1	0.02	0.7	0.828	<0.02	0.33	303	<0.05	7.39
SS192	1	15	0.06	0.03	0.7	0.908	<0.02	0.34	291	0.05	15.3
SS193	1.3	15.6	0.05	0.03	0.8	0.878	<0.02	0.36	320	<0.05	11.15
SS194	1.2	12	0.12	0.03	0.7	0.836	<0.02	0.42	277	<0.05	5.1
SS195	1.1	13.9	0.03	0.03	0.7	0.781	<0.02	0.38	276	<0.05	11.2
SS196	0.9	26.7	0.01	0.02	0.7	0.751	<0.02	0.3	252	<0.05	10.55
SS197	1.5	12.4	0.06	0.02	0.7	0.972	<0.02	0.27	386	<0.05	6.83
SS198	2.3	11.5	0.07	0.01	0.5	1.56	<0.02	0.22	649	<0.05	2.37
SS199	0.9	10.5	0.02	0.03	0.9	0.657	<0.02	0.33	234	<0.05	10.4
SS200	1	10.3	0.01	0.02	1	0.73	<0.02	0.42	240	<0.05	5.85
SS201	0.8	12.5	0.01	0.07	1	0.655	<0.02	0.42	193	0.06	15.9
SS202	0.8	12.2	0.03	0.04	0.7	0.646	<0.02	0.33	219	<0.05	10.95
SS203	0.8	81.6	0.06	0.02	0.3	0.591	<0.02	0.18	219	<0.05	5.22
SS204	1.1	11.1	0.1	0.03	0.4	0.827	<0.02	0.37	294	<0.05	4.26
SS205	1.3	9.5	0.13	0.05	0.7	1.07	<0.02	0.29	390	<0.05	6.57
SS206	0.8	10	0.08	0.05	0.6	0.698	<0.02	0.44	213	0.07	12.9
SS207	0.8	22.8	0.04	0.01	0.3	0.708	<0.02	0.25	192	0.05	8
SS208	0.7	15.8	0.06	0.04	0.4	0.537	<0.02	0.33	188	0.06	11.5
SS209	1	14.8	0.05	0.06	0.7	0.744	0.02	0.4	297	0.05	12.65
SS210	0.6	11.1	0.01	0.08	0.6	0.463	0.02	0.54	181	0.08	20.4
SS211	1.1	11.4	0.1	0.03	0.6	0.791	<0.02	0.26	322	<0.05	8.21
SS212	1.4	17.9	0.07	0.02	0.6	0.964	<0.02	0.24	356	<0.05	4.57
SS213	0.7	20.4	0.06	0.03	0.4	0.524	0.02	0.3	204	0.08	12.35
SS214	1	14.4	0.04	0.03	0.6	0.665	<0.02	0.28	276	<0.05	12.55
SS215	1	6.8	0.13	0.03	0.6	0.778	<0.02	0.27	326	<0.05	5.74
SS216	0.5	9.6	0.01	0.06	1	0.472	<0.02	0.39	190	0.06	12.1
SS217	1	25.4	0.04	0.02	0.5	0.633	<0.02	0.2	251	<0.05	8.19
SS218	0.5	23.9	0.02	0.02	0.2	0.346	0.02	0.19	132	0.06	12.4
SS219	1.4	13.4	0.08	0.03	0.6	1.125	<0.02	0.19	426	<0.05	6.58
SS220	1	12.7	0.05	0.03	0.9	0.732	0.02	0.3	294	0.06	9.64
SS221	0.8	6.1	0.01	0.01	<0.2	0.238	<0.02	0.05	128	<0.05	0.91
SS222	1.4	13	0.07	0.02	0.7	0.85	0.02	0.31	379	<0.05	8.63
SS223	1	9.4	0.02	0.04	0.9	0.685	<0.02	0.32	300	<0.05	10.15
SS224	0.8	16.6	0.02	0.03	0.6	0.578	<0.02	0.25	238	<0.05	12.25
SS225	1.7	13	0.06	0.02	0.6	0.948	<0.02	0.24	442	<0.05	7.8
SS226	1.1	11.4	0.08	0.03	0.6	0.833	<0.02	0.25	339	<0.05	7.57
SS227	1.1	11.4	0.06	0.03	0.7	0.767	<0.02	0.23	333	<0.05	10.7
SS228	1.9	8.9	0.11	0.02	0.7	0.892	<0.02	0.21	527	<0.05	3.94
SS229	0.8	16.3	0.08	0.04	0.5	0.468	<0.02	0.24	246	<0.05	12.8
SS230	0.8	10.7	0.06	0.04	0.5	0.593	<0.02	0.23	230	<0.05	10.5

Station No.	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm
SS231	1	17.4	0.04	0.02	0.5	0.65	<0.02	0.21	285	<0.05	11.6
SS232	0.8	15.3	0.13	0.02	0.5	0.613	<0.02	0.31	219	0.06	10.3
SS233	0.9	17.1	0.1	0.05	0.7	0.627	<0.02	0.32	274	<0.05	9.19
SS234	0.8	9.2	0.04	0.04	0.9	0.615	<0.02	0.28	284	0.05	12.15
SS235	1	13.2	0.04	0.04	0.7	0.814	<0.02	0.26	348	0.05	16.55
SS236	1.8	17	0.11	0.01	0.6	1.21	<0.02	0.24	555	<0.05	6.88
SS237	1.1	18.7	0.09	0.04	0.5	0.784	<0.02	0.36	272	0.06	13.7
SS238	1.1	26.1	0.02	0.03	0.6	0.738	<0.02	0.24	327	<0.05	12.55
SS239	0.9	24.1	0.06	0.03	0.5	0.677	<0.02	0.79	240	0.15	18.2
SS240	1.1	10.7	0.08	0.04	0.5	0.696	<0.02	0.33	299	<0.05	7.79
SS241	0.8	19.5	0.06	0.02	0.4	0.648	<0.02	0.21	248	<0.05	13.35
SS242	1.1	12.8	0.11	0.03	0.7	0.9	<0.02	0.25	360	<0.05	8.97
SS243	1.5	14	0.09	0.02	0.5	0.985	<0.02	0.21	418	<0.05	5.76
SS244	0.8	27.2	0.05	0.05	0.4	0.494	0.02	0.27	223	0.09	16.45
SS245	1	12.3	0.11	0.04	0.6	0.772	<0.02	0.28	331	0.05	8.57
SS246	0.8	27.3	0.02	0.05	0.6	0.545	0.02	0.53	234	0.09	29.6
SS247	1.1	12.7	0.11	0.02	0.8	0.841	<0.02	0.32	340	<0.05	8.29
SS248	0.8	22.7	0.04	0.05	0.4	0.581	0.02	0.33	260	<0.05	12.35
SS249	1.2	17.1	0.12	0.03	0.5	0.841	<0.02	0.21	376	<0.05	7.26
SS250	0.8	12.9	0.08	0.04	0.8	0.665	<0.02	0.32	275	<0.05	8.4
SS251	1.2	18	0.08	0.02	0.6	0.786	<0.02	0.21	353	<0.05	6.81
SS252	1.4	11.5	0.04	0.06	0.8	0.975	<0.02	0.36	424	<0.05	11.25
SS253	1.4	14.7	0.11	0.02	0.6	0.807	<0.02	0.29	386	<0.05	6.1
SS254	1	19.1	0.05	0.03	0.7	0.712	<0.02	0.3	310	<0.05	11.05
SS255	0.9	14.1	0.02	0.02	0.6	0.642	<0.02	0.33	233	0.05	9.23
SS256	1	13.7	0.09	0.04	0.6	0.814	<0.02	0.29	370	<0.05	8.29
SS257	1.2	15.1	0.07	0.04	0.6	0.887	<0.02	0.27	376	<0.05	10.2
SS258	1	21.4	0.07	0.05	0.8	0.671	0.02	0.41	283	<0.05	16.85
SS259	1.1	14.3	0.03	0.07	0.6	0.689	<0.02	0.34	289	<0.05	15.75
SS260	0.7	20.9	0.03	0.02	0.4	0.562	<0.02	0.22	201	0.06	13.5
SS261	1.2	21	0.03	0.02	0.5	1.055	<0.02	0.17	384	<0.05	6.69
SS262	0.8	11	0.02	0.07	0.7	0.557	0.02	0.41	195	0.06	12.7
SS263	0.8	12.5	0.02	0.06	0.8	0.648	0.02	0.43	262	0.07	13.6
SS264	1.1	11.3	0.08	0.03	0.7	0.823	<0.02	0.24	317	<0.05	5.81
SS265	0.7	22.8	0.04	0.02	0.5	0.582	<0.02	0.26	200	0.06	16.7
SS266	1.6	13.4	0.08	0.02	0.4	1.085	<0.02	0.2	459	<0.05	4.21
SS267	0.8	7.9	0.01	0.05	0.8	0.571	<0.02	0.5	239	0.05	9.29
SS268	0.9	27.6	0.05	0.03	0.6	0.741	<0.02	0.29	292	<0.05	10.95
SS269	0.8	10.1	0.04	0.05	0.7	0.602	<0.02	0.33	277	<0.05	9.04
SS270	0.6	12.6	0.01	0.07	0.9	0.562	<0.02	0.44	198	0.07	17.6
SS271	1.1	18	0.07	0.05	0.5	0.879	0.02	0.33	330	<0.05	16
SS272	1.2	17.4	0.06	0.06	0.7	0.957	<0.02	0.38	348	0.06	19.25
SS273	1.6	10	0.02	0.08	0.9	0.99	<0.02	0.35	440	<0.05	12.1
SS274	0.7	71.8	0.01	0.03	0.4	0.492	0.02	0.22	230	<0.05	11.05
SS275	0.7	13	0.01	0.04	0.8	0.553	<0.02	0.35	231	<0.05	10.25
SS276	1.3	17.1	0.06	0.07	0.7	0.852	<0.02	0.31	372	<0.05	11.55

Station No.	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm
SS277	0.6	18	0.04	0.03	0.2	0.343	0.02	0.13	133	0.06	6.84
SS278	1.7	16.5	0.05	0.05	0.7	1.08	<0.02	0.3	494	<0.05	3.92
SS279	0.9	13.6	0.05	0.05	0.6	0.662	0.03	0.26	272	<0.05	5.13
SS280	0.4	18.9	0.02	0.02	<0.2	0.27	<0.02	0.08	113	<0.05	2.8
SS281	1.1	16	0.05	0.05	0.6	0.753	0.02	0.29	330	0.05	12.05
SS282	1	20.4	0.05	0.06	0.6	0.716	0.02	0.39	324	<0.05	17.6
SS283	1.3	17.2	0.04	0.04	0.6	0.914	<0.02	0.26	376	<0.05	10.4
SS284	1.1	17.8	0.05	0.04	0.7	0.865	<0.02	0.28	347	<0.05	10.35
SS285	0.9	12.2	0.02	0.06	0.8	0.758	<0.02	0.38	302	<0.05	11.1
SS286	1.1	13.8	0.09	0.05	0.8	0.839	<0.02	0.32	317	<0.05	9.59
SS287	1	17	0.04	0.05	0.4	0.72	0.02	0.29	264	<0.05	12.8
SS288	0.8	12.8	0.08	0.05	0.5	0.628	<0.02	0.3	270	0.05	10.45
SS289	1.1	13.4	0.09	0.06	0.7	0.862	<0.02	0.42	350	<0.05	7.54
SS290	1	14.9	0.04	0.06	0.7	0.796	0.02	0.31	326	<0.05	16.45
SS291	1	13	0.03	0.07	0.7	0.769	<0.02	0.3	321	<0.05	17
SS292	1.1	18.8	0.05	0.04	0.4	0.818	<0.02	0.31	319	<0.05	7.95
SS293	1	17.4	0.04	0.03	0.6	0.762	<0.02	0.26	295	<0.05	8.09
SS294	1.1	15.3	0.07	0.03	0.6	0.805	<0.02	0.22	328	<0.05	9.41
SS295	1.3	12.9	0.08	0.04	0.7	0.957	<0.02	0.28	397	<0.05	10.1
SS296	1.1	15.7	0.04	0.03	0.9	0.842	<0.02	0.29	327	<0.05	10.35
SS297	1	16.6	0.03	0.04	0.9	0.821	<0.02	0.34	308	<0.05	16.3
SS298	0.7	15.5	0.06	0.02	0.6	0.553	<0.02	0.33	183	0.07	9.65
SS299	0.9	18.5	0.06	0.04	0.5	0.638	0.02	0.27	236	<0.05	12.7
SS300	1	18.4	0.06	0.04	0.6	0.801	<0.02	0.32	320	0.06	14.1
SS301	1	26	0.04	0.03	0.6	0.701	<0.02	0.29	275	<0.05	18.4
SS302	0.9	27.7	0.02	0.03	0.5	0.617	<0.02	0.24	247	<0.05	15
SS303	1	19.6	0.05	0.04	0.7	0.74	0.02	0.34	286	<0.05	19.2
SS304	0.9	18.2	0.04	<0.01	0.6	0.672	<0.02	0.33	261	0.06	27.3
SS305	0.8	18.5	0.03	<0.01	0.5	0.657	<0.02	0.29	232	0.05	18.2
SS306	1.1	14.5	0.05	<0.01	0.7	0.896	<0.02	0.31	344	<0.05	20.4
SS307	1.2	14.6	0.05	0.01	0.5	0.927	<0.02	0.3	370	<0.05	16.2
SS308	1.2	13.1	0.07	0.01	0.6	0.912	<0.02	0.28	386	<0.05	12.65
SS309	0.8	12	0.07	0.01	0.5	0.609	0.02	0.35	253	0.07	16.1
SS310	0.8	14.1	0.05	0.01	0.2	0.442	0.03	0.46	199	<0.05	15.05
SS311	0.9	14.1	0.05	0.01	0.4	0.603	0.03	0.45	239	0.05	13.65
SS312	1	11.3	0.04	0.02	0.5	0.581	<0.02	0.38	305	0.06	12
SS313	0.8	15.3	0.01	0.01	0.4	0.537	<0.02	0.3	212	0.05	13.25
SS314	0.8	15.2	0.04	0.01	0.3	0.471	0.03	0.26	209	0.06	14.05
SS315	0.9	18.2	0.08	0.01	0.5	0.522	<0.02	0.36	289	0.07	20.2
SS316	0.5	39.8	0.02	0.01	0.5	0.369	0.02	0.28	157	0.08	19
SS317	0.8	14.3	0.04	0.01	0.6	0.615	<0.02	0.32	239	0.05	16.3
SS318	1	10.1	0.02	0.01	0.8	0.815	<0.02	0.37	338	<0.05	22.6
SS319	1.1	17.8	0.02	<0.01	0.4	0.847	0.02	0.22	336	<0.05	10.85
SS320	1.2	10.8	0.04	<0.01	0.6	0.858	<0.02	0.17	318	<0.05	4.78
SS321	0.9	13.7	0.05	0.01	0.7	0.764	<0.02	0.23	271	<0.05	6.11
SS322	0.9	13.6	0.05	0.01	0.6	0.692	0.02	0.3	221	0.08	11.05

Station No.	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm
SS323	1	13.4	0.06	0.01	0.5	0.734	<0.02	0.22	279	<0.05	5.92
SS324	1.2	14	0.07	<0.01	0.7	0.868	0.02	0.26	339	<0.05	10.25
SS325	1.2	10.5	0.09	0.01	0.5	0.893	<0.02	0.37	378	<0.05	8.6
SS326	1.1	9.8	0.09	0.02	0.8	0.806	<0.02	0.29	378	<0.05	5.86
SS327	1.3	19.2	0.08	0.01	0.6	0.878	<0.02	0.37	388	<0.05	7.07
SS328	1	14.2	0.09	0.01	0.5	0.769	<0.02	0.33	313	<0.05	19.95
SS329	1.4	9	0.12	0.01	0.7	0.964	<0.02	0.32	435	<0.05	15.5
SS330	1	17.9	0.06	<0.01	0.5	0.728	<0.02	0.29	283	<0.05	9.94
SS331	0.9	14.2	0.08	<0.01	0.7	0.688	<0.02	0.28	264	0.06	8.43
SS332	1.4	9.9	0.08	<0.01	0.6	0.977	<0.02	0.21	428	<0.05	3.94
SS333	1.2	13.7	0.08	0.02	0.5	0.903	0.02	0.33	357	<0.05	17.65
SS334	1.1	12.8	0.08	0.01	0.7	0.852	<0.02	0.32	332	<0.05	15.45
SS335	1.2	16.9	0.05	0.02	0.7	0.895	0.02	0.22	335	<0.05	12.4
SS336	0.8	13.2	0.06	0.01	0.8	0.652	0.02	0.35	246	0.06	13
SS337	0.6	14.9	0.01	0.01	0.7	0.468	<0.02	0.38	181	0.07	14.3
SS338	1.1	20	0.04	0.01	0.6	0.825	<0.02	0.26	326	<0.05	11.6
SS339	0.9	14.5	0.05	<0.01	0.8	0.774	<0.02	0.26	276	0.06	8.45
SS340	1.1	17.4	0.06	0.01	0.6	0.801	<0.02	0.29	325	<0.05	13.45
SS341	1.2	15.7	0.04	0.01	0.8	0.856	0.02	0.26	322	<0.05	9.82

Station No.	Zn ppm	Zr ppm
SS01	45	30.1
SS02	25	25.6
SS03	50	2
SS04	17	<0.5
SS05	40	43.2
SS06	34	48.6
SS07	38	43.9
SS08	26	39.3
SS09	31	32.7
SS10	41	40.5
SS11	33	32
SS12	25	51.2
SS13	18	59.4
SS14	40	55.1
SS15	31	35.2
SS16	41	12.8
SS17	14	2.6
SS18	37	31.6
SS19	24	38.9
SS20	34	22.8
SS21	39	17.5
SS22	31	20.1
SS23	37	24.6
SS24	26	17.6
SS25	35	1.7
SS26	41	11.5
SS27	20	34.9
SS28	56	41.8
SS29	13	0.6
SS30	21	24.4
SS31	16	9.7
SS32	38	12.7
SS33	57	20.8
SS34	108	23.2
SS35	114	26
SS36	68	30.1
SS37	46	27.4
SS38	61	31
SS39	38	19.1
SS40	50	28.1
SS41	39	22.4
SS42	47	15.9
SS43	39	13.4
SS44	38	18.5
SS45	42	26.9
SS46	70	31.7

Station No.	Zn ppm	Zr ppm
SS47	44	27.2
SS48	46	16
SS49	60	40.4
SS50	44	18.7
SS51	47	24.1
SS52	60	28.6
SS53	47	32.9
SS54	44	26.7
SS55	54	43.2
SS56	55	22.6
SS57	49	31.3
SS58	44	34.2
SS59	43	22.9
SS60	36	23.8
SS61	39	16.5
SS62	56	27.3
SS63	54	12
SS64	65	25.6
SS65	38	23.9
SS66	49	27.3
SS67	53	33
SS68	37	24.3
SS69	67	39.1
SS70	56	35.8
SS71	44	15
SS72	61	16
SS73	66	6.7
SS74	44	13.6
SS75	77	7.1
SS76	40	13.3
SS77	29	7.9
SS78	30	31.5
SS79	30	27.3
SS80	38	10.7
SS81	31	25.8
SS82	37	20.8
SS83	65	11.9
SS84	48	24.4
SS85	33	38.5
SS86	46	37.3
SS87	35	29.3
SS88	45	47.4
SS89	44	14.6
SS90	31	18.7
SS91	38	42.9
SS92	46	31.9

Station No.	Zn ppm	Zr ppm
SS93	29	5.8
SS94	38	25.8
SS95	37	18.3
SS96	31	14.8
SS97	52	22.1
SS98	57	18.4
SS99	38	30.6
SS100	57	11.5
SS101	34	35.6
SS102	46	36.1
SS103	41	34.9
SS104	45	27
SS105	47	29.9
SS106	39	25.4
SS107	52	16
SS108	24	6.5
SS109	66	12.8
SS110	65	12.2
SS111	78	13.6
SS112	80	5.5
SS113	78	6.6
SS114	81	1
SS115	43	14.8
SS116	51	28.7
SS117	41	15.2
SS118	40	10.1
SS119	56	9.5
SS120	62	8.7
SS121	53	28
SS122	55	34.8
SS123	60	11.7
SS124	47	21.6
SS125	52	30.3
SS126	43	13.5
SS127	51	10.9
SS128	27	24.7
SS129	44	13.4
SS130	44	20.7
SS131	66	25
SS132	54	16.5
SS133	52	38
SS134	44	26.8
SS135	38	23.8
SS136	32	6.1
SS137	113	5.3
SS138	78	7.4

Station No.	Zn ppm	Zr ppm
SS139	51	16.2
SS140	50	22.1
SS141	77	18.2
SS142	49	17.4
SS143	40	23.4
SS144	95	6.7
SS145	56	15.7
SS146	51	14.6
SS147	97	7.8
SS148	57	6.4
SS149	53	27.4
SS150	46	10
SS151	36	31.7
SS152	38	32.5
SS153	27	41.9
SS154	24	29.4
SS155	41	20
SS156	36	20.8
SS157	36	10.3
SS158	26	23.6
SS159	24	40.3
SS160	41	31.6
SS161	21	14.6
SS162	30	15.3
SS163	45	29.9
SS164	35	13.6
SS165	38	8.1
SS166	36	18
SS167	14	27.8
SS168	51	10.5
SS169	47	20.7
SS170	35	19.4
SS171	31	12.2
SS172	30	35.6
SS173	25	18.4
SS174	30	19.7
SS175	41	21.1
SS176	32	9.7
SS177	45	18.3
SS178	97	10.3
SS179	41	13.4
SS180	40	19.5
SS181	35	16.9
SS182	53	23
SS183	117	50.5
SS184	84	17.4

Station No.	Zn ppm	Zr ppm
SS185	67	39.2
SS186	59	40.5
SS187	54	18.8
SS188	36	23
SS189	33	29.8
SS190	30	29.6
SS191	27	37.5
SS192	36	32.8
SS193	51	39.1
SS194	32	25
SS195	31	33.5
SS196	35	31.8
SS197	29	32.5
SS198	35	15.6
SS199	26	45.8
SS200	26	56.6
SS201	30	53.7
SS202	24	34.1
SS203	41	17.2
SS204	28	18.1
SS205	31	31.5
SS206	30	28.2
SS207	45	20.4
SS208	49	19.6
SS209	54	26.8
SS210	41	30.4
SS211	28	28.7
SS212	32	23.2
SS213	65	13.8
SS214	41	27.1
SS215	25	34.3
SS216	29	56.3
SS217	42	17.3
SS218	59	7.7
SS219	42	24.6
SS220	69	36.1
SS221	15	2.1
SS222	49	23.5
SS223	39	45.1
SS224	36	26.9
SS225	45	24.3
SS226	30	35.7
SS227	34	35.1
SS228	26	28.6
SS229	55	13.3
SS230	37	27.3

Station No.	Zn ppm	Zr ppm
SS231	44	23.8
SS232	51	23.5
SS233	37	32.1
SS234	54	42.8
SS235	44	39.8
SS236	23	26.1
SS237	58	14.3
SS238	63	28.4
SS239	79	18.8
SS240	37	19.3
SS241	46	26
SS242	42	38.2
SS243	37	26.3
SS244	72	10.9
SS245	38	31.3
SS246	51	19.1
SS247	44	34.2
SS248	65	16
SS249	52	24.7
SS250	46	45.6
SS251	54	26
SS252	45	42.7
SS253	44	19.1
SS254	59	23.9
SS255	61	20.7
SS256	42	23.9
SS257	59	25.2
SS258	67	18.4
SS259	70	18.1
SS260	39	24.2
SS261	55	20
SS262	52	28.8
SS263	50	31.1
SS264	46	39.1
SS265	40	23.3
SS266	34	16.3
SS267	37	26.6
SS268	47	24.6
SS269	34	32.6
SS270	39	47.9
SS271	55	23.9
SS272	71	23.5
SS273	33	49.6
SS274	72	10.7
SS275	34	33.5
SS276	46	26.1

Station No.	Zn ppm	Zr ppm
SS277	27	10.5
SS278	25	22
SS279	41	20.4
SS280	31	5.7
SS281	63	26.7
SS282	63	13.4
SS283	71	22.8
SS284	63	29.1
SS285	43	42.6
SS286	40	37.8
SS287	56	11.8
SS288	43	23.6
SS289	29	31.6
SS290	45	22.8
SS291	44	33.3
SS292	40	13.9
SS293	55	20.6
SS294	43	32.7
SS295	52	31.4
SS296	53	45
SS297	60	51.1
SS298	35	24.5
SS299	58	17.5
SS300	68	19
SS301	50	28.1
SS302	57	21.7
SS303	46	19.9
SS304	56	26
SS305	53	24.5
SS306	47	34.4
SS307	49	18.9
SS308	48	25.5
SS309	52	26
SS310	42	5.8
SS311	59	10.3
SS312	29	10.7
SS313	27	6.7
SS314	52	6.9
SS315	52	10.5
SS316	43	11.7
SS317	45	30.1
SS318	52	46.2
SS319	68	12.1
SS320	48	27.5
SS321	56	36.5
SS322	61	19

Station No.	Zn ppm	Zr ppm
SS323	36	23.1
SS324	58	39.8
SS325	39	20.9
SS326	33	35
SS327	33	18.8
SS328	57	20.6
SS329	46	33.5
SS330	45	23.3
SS331	52	25.7
SS332	27	29.8
SS333	48	17
SS334	55	34.4
SS335	56	28.9
SS336	58	26.5
SS337	45	25.7
SS338	52	28
SS339	62	33.5
SS340	57	23.5
SS341	58	32.7

Appendix B – Rock Sample descriptions

Map No.	Sample	Description
R1	34501	no information
R2	34502	shear in volc. with calcite and epidote stringers. Mal stn.
R3	34503	across Py shear zone. Blebs-stringers mass Py. Epidote alt.
R4	34504	sheared wall rock. Epidote minor Cp-Py- Magnetite
R5	34505	hanging wall- magnetite volc. Minor rhodonite? Or K spar
R6	34506	Eclair showing. 10 cm seam mass Cp-Py in shear zone
R7	34507	Eclair showing 1m chip shear zone malachite, azurite, bornite, chalcocite
R8	34508	shear. Footwall rocks. Mal stn. Pods mass Cp-Py
R9	34509	1m chip. Basalt dyke. Mal stn. Blebs Cp-Py
R10	34510	Cruller showing. 10cm shear. Qtz calcite mal stn. Py- Cp-Py
R11	34511	Puff quarry. 1 m chip otcp. Mal stn. Fractured silicified volc.
R12	34512	Grab of Epidote altered volc. Mal stn. - diss Cp-Py
R13	34513	Qtz. Carb veins in volc. Py-Cp-Py Semi. Mass. 2-5 cm veins
R14	34514	Otcp. Stockwork veins of mass Py. with Cp-Py in basalt
R15	34515	Same zone. .5m chip across mass Py-Cp-Py veins in basalt otcp. Road Cpt
R16	34516	Grab. 8cm wide vein chunk. mass Py float sub crop
R17	34517	Grab. 20cm Qtz carb Epidote vein. Otcp blebs Cp-Py-Chalcocite mal, azurite
R18	34518	Grab otcp siliceous volc. Qtz carb Chalcocite-Cp-Py Mal, azurite.
R19	34519	Mal stnd. Basalt diss Cp-Py. Diss. Chalcocite subcrop
R20	34520	Grab ang. subcrop. Qtz rich volc. Diss. Po Chalcocite. Minor Cp-Py Mal, stn.
R21	34521	Grab .5m Shear zone. Heavy Py
R22	34522	Grab 10 cm fine mass Py. in volc rocks
R23	RMR-R-18-01	outcrop, Krispy showing on highway, Mal. staining with Cp
R24	RMR-R-18-02	subcrop, blast pit, Py-Mal
R25	RMR-R-18-03	grab sample, blast pit, Py-Mal-Ep.
R26	RMR-R-18-04	grab sample, blast pit, Py-Bn-Ep
R27	RMR-R-18-05	grab sample, blast pit, Mal. staining
R28	RMR-R-18-06	grab sample, Eclair pit, Mal-Az. staining
R29	RMR-R-18-07	grab sample, Elair pit, Mal-Cp-Py
R30	RMR-R-18-08	grab sample, Eclair pit, Mal-Cp-Py
R31	RMR-R-18-09	grab sample, Wacor pit, Mt
R32	RMR-R-18-10	outcrop, Wacor pit, iron rich basalt (test sample for Fe)

Map No.	Easting	Northing	Cu	units	Mo ppm	Ag ppm	As ppm	Al %	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
R1	704585	5581664	521	ppm	0.33	0.52	25.1	5.16	0.02	<10	<10	0.29	0.31	4.3	0.15
R2	702988	5581706	3230	ppm	1.47	2.68	1.2	1.22	0.02	<10	<10	0.16	0.01	1.25	0.98
R3	702988	5581706	189.5	ppm	1.12	0.43	1.9	1.06	<0.02	<10	<10	0.14	0.11	1.58	0.13
R4	702988	5581706	12.9	ppm	0.54	0.05	0.8	0.71	<0.02	<10	<10	0.08	0.05	1.7	0.03
R5	702988	5581706	281	ppm	0.43	0.21	1.9	0.95	<0.02	<10	<10	0.14	0.05	2.53	0.11
R6	705022	5580056	14.95	%	0.46	27.4	23.2	1.82	1.17	<10	10	<0.05	0.49	0.3	22.5
R7	705006	5580069	5.27	%	48.2	24	3.2	1.02	0.06	<10	<10	0.16	0.89	3.37	14.55
R8	705006	5580069	3.92	%	14.85	4.66	1.6	0.88	0.04	<10	10	0.26	0.15	1.28	10.7
R9	705006	5580069	1.875	%	11.35	1.98	2.2	0.95	0.02	<10	10	0.22	0.07	1.31	7.87
R10	705202	5580209	1010	ppm	0.87	0.43	9.4	1.87	<0.02	<10	10	0.15	0.32	2.76	0.38
R11	704710	5580563	6520	ppm	1.07	2.58	3	1.46	<0.02	<10	<10	ppm	0.03	1.85	1.19
R12	704751	5580553	5.29	%	1.61	34.7	9.3	3.87	0.04	<10	<10	0.14	0.04	1.43	2.53
R13	706063	5578382	1860	ppm	1855	1.43	303	1.25	0.07	<10	10	0.08	0.09	3.49	0.7
R14	706061	5578374	3360	ppm	317	1.27	571	1.4	0.02	<10	20	0.1	0.07	2.33	7.35
R15	706061	5578374	1740	ppm	843	1.43	1055	1.85	<0.02	<10	30	0.09	0.05	4.56	7.33
R16	706047	5578384	8290	ppm	478	4.02	400	0.48	<0.02	<10	10	<0.05	0.03	0.1	2.44
R17	706036	5578521	3550	ppm	4.7	1.8	2.9	1.46	0.07	<10	<10	0.12	0.07	1.48	0.37
R18	706042	5578515	3.2	%	8.53	7.16	3.7	0.86	0.2	<10	10	0.11	0.05	5.87	3.11
R19	706202	5578516	2.32	%	0.87	4.56	0.4	3.85	0.03	<10	10	0.17	0.03	0.91	0.15
R20	706029	5578599	4.96	%	3.53	11.8	63.7	2.62	0.06	<10	50	0.14	0.06	2.79	3.15
R21	705353	5581126	845	ppm	12.85	1.32	67.4	3.95	<0.02	<10	50	0.19	0.08	5.35	1.26
R22	703411	5581265	414	ppm	0.85	0.19	46	1.46	<0.02	<10	10	0.06	0.43	0.83	0.14
R23	702590	5582053	1.355	%	1.98	6.79	1.3	2.31	0.05	<10	10	0.16	0.1	10.95	0.92
R24	703917	5581697	72.3	ppm	0.79	0.1	2.6	1.43	<0.02	<10	10	0.07	0.09	1.16	0.12
R25	704727	5580559	3.54	%	1.8	20.8	6.1	2.65	<0.02	<10	<10	0.08	0.05	0.77	1.38
R26	705009	5580068	3.31	%	14.1	11.85	1.9	0.74	0.09	<10	10	0.16	0.26	4.05	13.4
R27	705034	5580087	4.17	%	0.8	9.48	23.3	1.92	1.24	<10	10	0.13	0.36	0.99	6.25
R28	705239	5580010	2.54	%	1.49	7.72	3.6	1.86	0.16	10	<10	0.23	0.13	2.65	0.77
R29	705012	5580077	4.2	%	23.2	9.65	10.3	0.74	0.05	<10	<10	0.16	0.51	6.84	4.2
R30	704724	5580895	2.42	%	0.9	10.65	5.2	2.54	0.05	<10	<10	0.31	0.07	2.2	2.38
R31	703885	5582366	542	ppm	0.32	0.22	1.6	1	<0.02	<10	<10	0.1	0.07	1.87	0.16
R32	703914	5582309	937	ppm	0.95	0.22	0.5	1.1	<0.02	<10	10	0.11	0.03	1.26	0.12

Map No.	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
R1	2.4	39.5	17	0.28	521	9.31	11.45	0.24	0.11	0.03	0.014	0.06	1	2.9	0.77	235
R2	2.12	12.2	42	<0.05	3230	2.05	4.38	0.13	0.13	0.03	0.043	0.03	0.8	4.8	0.77	243
R3	6.29	79.9	13	<0.05	189.5	6.65	5.06	0.22	0.62	0.02	0.014	0.01	2.3	1.4	0.41	178
R4	6.22	14.8	7	<0.05	12.9	2.28	3.36	0.25	0.64	0.01	0.01	<0.01	2.3	0.6	0.19	123
R5	7.32	53.8	14	<0.05	281	5.18	4.32	0.19	0.59	0.02	0.016	0.01	2.7	2.5	0.6	217
R6	1.09	408	13	0.09	>10000	17.5	7.63	0.27	0.1	0.03	1.95	0.02	0.5	7.1	1.39	507
R7	3.8	23.7	26	<0.05	>10000	6.9	3.63	0.26	0.74	0.01	0.076	0.01	1.5	1.6	0.26	537
R8	5.03	23.5	26	<0.05	>10000	4.6	3.21	0.26	0.88	0.01	0.054	0.01	1.8	1.6	0.36	162
R9	5.5	23.6	29	<0.05	>10000	3.17	3.08	0.2	0.81	0.01	0.035	0.01	2.1	2.9	0.57	260
R10	6.12	46.3	51	0.1	1010	6.33	5.89	0.2	0.78	0.01	0.057	0.02	2	5.7	1.1	381
R11	4.84	37.8	61	<0.05	6520	2.68	7.25	0.17	0.34	0.02	0.073	0.01	1.8	6.1	0.67	415
R12	2.97	51.6	90	0.49	>10000	11.05	12.4	0.25	0.17	0.13	0.111	0.03	1	11.5	1.64	836
R13	4.43	34.6	23	0.08	1860	11.6	5.44	0.23	0.55	0.02	0.013	0.01	1.7	2.1	0.63	399
R14	0.91	47	6	0.23	3360	25.7	4.87	0.1	<0.02	0.07	0.009	0.15	0.4	4.4	0.79	535
R15	4.54	40.8	20	0.15	1740	24.3	7.92	0.13	0.21	0.04	0.024	0.12	1.8	6.1	1.02	700
R16	0.55	51.6	3	<0.05	8290	27.6	2.66	0.11	0.02	0.14	0.011	0.02	0.2	1.2	0.21	127
R17	2.65	9.9	53	<0.05	3550	3.14	8.82	0.32	0.47	<0.01	0.012	0.01	1	2.1	0.42	182
R18	1.08	6.2	8	<0.05	>10000	2.11	5.5	0.18	0.14	0.01	0.008	0.02	0.5	0.7	0.14	251
R19	6.18	40.8	41	0.75	>10000	7.59	16.35	0.32	0.98	0.01	0.02	0.01	1.9	10	3.48	915
R20	4.79	56	42	0.18	>10000	5.93	13.4	0.13	0.27	0.01	0.069	0.09	1.7	16.8	1.12	1190
R21	8.98	28	6	0.17	845	5.81	8.15	0.3	0.4	0.01	0.016	0.02	5.6	1.8	0.33	139
R22	4.3	68.1	31	<0.05	414	8.85	6.19	0.13	0.32	0.01	0.011	0.05	1.6	7.5	1.01	371
R23	1.89	3.7	8	0.43	>10000	1.03	3.35	0.1	0.09	<0.01	0.008	0.06	0.7	1.4	0.22	152
R24	2.22	56.1	59	<0.05	72.3	5.9	4.76	0.17	0.62	<0.01	0.014	0.01	0.8	2.1	0.78	223
R25	2.76	45.4	92	<0.05	>10000	10.65	11.4	0.26	0.17	0.08	0.173	<0.01	1	11.9	1.69	753
R26	3.67	15.8	18	<0.05	>10000	4.27	2.73	0.17	0.5	0.01	0.049	0.01	1.4	2.1	0.34	447
R27	4.62	160	50	0.09	>10000	10.85	9.45	0.27	0.53	0.01	0.391	0.04	1.8	9.2	1.54	451
R28	5.69	9.1	27	0.05	>10000	2.04	7.26	0.34	0.49	<0.01	0.015	0.01	2.2	1.5	0.39	297
R29	0.98	16.8	12	<0.05	>10000	12.7	5.69	0.28	0.08	0.01	0.129	0.01	0.5	1.9	0.18	1060
R30	2.57	55.1	60	0.27	>10000	4.23	9.99	0.27	0.21	0.05	0.085	0.02	1	5.7	0.54	295
R31	1.19	38.7	24	<0.05	542	26.8	6.75	0.44	0.12	<0.01	0.013	0.01	0.4	0.8	0.19	424
R32	13.05	11	10	0.08	937	5.09	5.96	0.14	0.17	<0.01	0.013	0.04	6.5	3.6	0.66	444

Map No.	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm
R1	0.33	0.03	<0.05	39.2	170	5.3	1	<0.001	7.6	0.15	2.7	7.5	0.2	110	<0.01
R2	1.47	0.01	0.17	17.7	440	5.7	0.6	0.003	0.35	0.11	4.2	0.7	0.2	64.4	<0.01
R3	1.12	0.02	1.43	20.9	670	4.7	0.2	0.005	2.92	0.24	3.6	4.2	0.4	84.2	0.03
R4	0.54	<0.01	1.65	8.2	650	2.4	<0.1	<0.001	0.73	0.08	3.6	1.4	0.4	80.9	0.02
R5	0.43	0.02	1.13	23.5	630	2.8	0.2	0.002	1.87	0.09	3.3	1.9	0.4	56.1	0.02
R6	0.46	0.02	0.11	237	120	6	0.6	0.001	6.75	0.24	5.5	55.4	0.6	26.7	<0.01
R7	48.2	0.01	1.58	20.9	480	5.3	0.3	0.444	2.71	0.28	6	1.6	0.4	41.7	0.03
R8	14.85	0.04	1.36	27.2	490	4	0.3	0.076	2.52	0.25	5.7	0.8	0.4	42.4	0.01
R9	11.35	0.04	1.03	28.6	600	1.6	0.2	0.097	1.13	0.15	4.8	0.6	0.4	38.6	0.01
R10	0.87	0.09	0.85	33.2	380	2	0.4	0.003	3.11	0.14	5.3	3.4	0.9	44.6	0.02
R11	1.07	0.03	0.97	54.6	740	2.2	0.2	0.001	0.07	0.35	13.5	1.1	0.5	93.4	0.01
R12	1.61	0.01	0.14	157	710	2.1	0.7	<0.001	0.47	0.23	21.9	9.2	0.4	68.7	<0.01
R13	1855	0.02	0.78	28.6	290	7	0.6	0.119	8.23	0.09	5.2	3.5	0.3	52.5	0.01
R14	317	0.01	<0.05	23.5	10	29.6	3.6	1.855	10	0.35	0.9	1	<0.2	27.4	<0.01
R15	843	0.01	0.4	29.3	200	33	2.9	0.468	10	0.18	7.2	1	0.2	35.9	<0.01
R16	478	<0.01	0.06	17.7	20	40.1	0.4	0.486	10	0.97	0.5	1.8	<0.2	1.9	<0.01
R17	4.7	<0.01	1.03	20	240	2.2	0.2	0.01	0.24	0.09	6	1	0.3	82.2	0.01
R18	8.53	0.01	0.19	7.7	40	3	0.4	0.004	1.21	0.07	1.1	1.5	<0.2	70.6	<0.01
R19	0.87	0.02	0.34	52.5	510	2.6	0.7	<0.001	0.58	0.06	12.6	0.7	0.5	29.1	0.01
R20	3.53	0.02	0.29	50	320	4.8	2.3	0.003	1.6	<0.05	12.2	1.3	0.3	46.9	0.01
R21	12.85	0.02	0.07	46.8	690	5	1.1	0.148	4.1	0.75	1.6	71.3	0.4	110.5	<0.01
R22	0.85	0.03	0.82	43.5	490	21.3	1.2	0.001	7.56	0.2	5.7	1.4	0.4	24	0.01
R23	1.98	0.01	0.09	4.9	140	7.2	2	0.003	0.18	<0.05	3.1	1.8	<0.2	51.6	<0.01
R24	0.79	0.06	0.53	30.5	390	55.9	0.4	0.002	3.31	0.25	4.2	4.7	0.4	58.4	0.01
R25	1.8	0.01	0.24	121	710	1.8	0.2	<0.001	0.74	0.17	23.8	8.9	0.4	37.8	0.01
R26	14.1	0.02	0.86	23.9	390	3	0.4	0.106	1.5	0.2	3.5	1	0.3	39.1	0.01
R27	0.8	0.05	0.38	118.5	470	2	1.3	0.001	5.14	0.22	10.5	26.4	0.5	36.7	0.01
R28	1.49	0.03	0.72	14.3	560	4.2	0.2	0.001	0.54	0.05	4.8	2.7	0.3	52.1	0.02
R29	23.2	<0.01	0.22	12.1	100	3.7	0.1	0.146	1.08	0.11	3.2	1.4	0.3	25.9	<0.01
R30	0.9	0.01	0.28	87.8	910	2.8	0.4	0.001	0.13	0.25	16	2.2	0.3	113.5	<0.01
R31	0.32	<0.01	0.34	105	120	0.4	0.1	<0.001	0.08	0.27	1.8	0.3	0.3	71.2	0.01
R32	0.95	0.07	0.2	8.2	1120	1.1	1.1	0.003	0.07	<0.05	8.1	0.2	0.3	23.8	0.01

Map No.	Te ppm	Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
R1	0.18	0.2	0.129	0.13	0.05	56	0.96	3.6	42	2.8
R2	<0.01	0.2	0.137	<0.02	0.11	63	<0.05	3.48	50	3.3
R3	0.01	0.2	0.593	<0.02	0.07	120	0.12	9.49	22	17
R4	0.01	<0.2	0.649	<0.02	0.06	98	0.09	8.26	11	17
R5	0.03	0.2	0.484	<0.02	0.07	121	0.09	9.85	25	15.3
R6	0.21	<0.2	0.088	0.15	<0.05	117	<0.05	3.21	413	2.2
R7	0.13	<0.2	0.515	<0.02	0.06	97	0.09	7.83	79	21
R8	0.02	0.2	0.606	0.02	0.08	114	0.07	10.5	127	27
R9	0.05	0.2	0.685	<0.02	0.09	116	0.08	11.1	158	22.3
R10	0.18	0.2	0.511	<0.02	0.15	79	0.33	10.7	28	26.2
R11	0.03	0.2	0.594	<0.02	0.09	201	0.08	11.1	70	6.2
R12	0.02	<0.2	0.363	<0.02	0.08	191	0.14	9.17	136	3.5
R13	0.07	<0.2	0.321	5.98	<0.05	84	1.06	5.45	36	15
R14	0.01	<0.2	<0.005	39.5	<0.05	15	0.07	1.99	52	<0.5
R15	0.01	<0.2	0.124	34.6	<0.05	83	0.11	6.15	73	5
R16	0.01	<0.2	0.008	34.1	<0.05	23	0.06	0.47	13	0.5
R17	0.02	<0.2	0.413	0.12	0.08	105	<0.05	3.38	17	18.4
R18	0.05	<0.2	0.057	0.11	<0.05	23	<0.05	1.25	11	3.4
R19	0.03	0.3	0.543	0.08	0.35	158	0.1	13.35	89	37.1
R20	0.04	0.2	0.254	0.07	0.08	145	<0.05	7.69	70	8.2
R21	0.24	1.1	0.108	0.24	1.88	34	0.29	7.3	47	19.3
R22	0.17	0.2	0.509	<0.02	0.06	122	0.07	8.46	60	6.9
R23	0.01	<0.2	0.082	0.03	<0.05	43	0.1	3.27	16	2.7
R24	0.03	<0.2	0.581	<0.02	0.07	95	0.38	4.61	26	15.2
R25	0.01	<0.2	0.347	<0.02	0.06	234	0.1	7.78	126	3.3
R26	0.04	<0.2	0.347	0.02	0.05	74	0.07	6.94	79	15.1
R27	0.22	0.2	0.392	0.07	0.06	168	0.06	9.89	222	12.9
R28	0.03	0.2	0.448	<0.02	0.09	75	0.07	9.21	20	14.7
R29	0.07	<0.2	0.083	<0.02	<0.05	50	0.14	3.1	44	2
R30	0.02	<0.2	0.42	<0.02	0.13	215	0.13	9.4	71	3.9
R31	0.01	<0.2	0.166	<0.02	<0.05	91	0.35	3.17	20	4
R32	<0.01	1.1	0.212	<0.02	0.29	180	0.09	11.2	48	3.2

Appendix C – Beep Mat Readings

Beep Mat data points with Rt values greater than 80% (strong conductors)

Record No.	HFR	LF	Rt	Northing	Easting	Record No.	HFR	LF	Rt	Northing	Easting
2	51	45	88	5583136	702437	8156	25	37	99	5582174	702608
3	51	44	86	5583135	702435	8176	431	446	99	5579439	706050
75	91	79	86	5582986	702412	8249	1121	1103	98	5579612	705947
214	10	39	99	5583035	702407	9077	6992	6689	95	5582299	702594
215	72	93	99	5583035	702407	9078	5086	4888	96	5582298	702593
216	71	90	99	5583037	702410	9385	49	62	99	5582181	702542
217	72	90	99	5583037	702410	9390	79	94	99	5582179	702541
218	70	89	99	5583040	702411	9564	264	272	99	5582083	702553
219	71	91	99	5583040	702411	9681	69	84	99	5582028	702542
220	57	77	99	5583044	702410	9711	17	15	89	5582012	702535
221	48	69	99	5583044	702410	9807	76	85	99	5581981	702518
222	65	84	99	5583047	702410	10163	21	37	99	5581794	702004
223	79	97	99	5583047	702410	10467	102	128	99	5581879	702011
224	58	78	99	5583049	702410	10468	45	80	99	5581880	702011
225	42	65	99	5583049	702410	10469	47	81	99	5581881	702010
226	72	90	99	5583051	702409	10470	44	79	99	5581881	702010
227	62	81	99	5583051	702409	11121	140	151	99	5581990	702002
228	51	72	99	5583053	702409	12369	118	124	99	5580973	702825
597	42	47	99	5581718	703134	12529	14	54	99	5581714	702114
648	38	60	99	5583212	702335	12530	11	56	99	5581714	702114
700	91	113	99	5583211	702324	12532	16	57	99	5581715	702114
982	456	443	97	5583113	702353	12533	21	62	99	5581715	702114
1579	13	35	99	5583102	702338	12643	274	259	94	5581603	702672
2054	10	39	99	5582320	703291	12727	17	31	99	5581760	702112
2055	10	38	99	5582320	703292	12728	133	111	82	5581761	702111
2057	10	39	99	5582320	703292	12729	49	51	99	5581761	702111
2597	11	17	99	5582279	703244	12730	14	46	99	5581762	702110
2639	22	39	99	5582279	703241	12731	48	66	99	5581762	702110
2840	332	347	99	5583087	702430	12786	11	29	99	5581764	702107
2876	52	59	99	5582243	703237	12850	383	356	93	5581775	702106
2914	156	138	88	5582271	703225	13010	29	36	99	5581000	703079
3065	602	528	87	5583080	702479	13053	122	141	99	5581004	703090
3076	247	235	95	5583087	702468	13079	141	145	99	5581823	702104
3101	70	81	99	5583009	702431	13084	252	246	97	5581015	703106
3143	10	37	99	5582946	702398	13270	712	693	97	5581494	704671
3422	108	144	99	5582696	703527	13404	2064	1975	95	5581861	704491
3723	531	517	97	5582408	703830	13405	2074	1985	95	5581861	704491
3726	2078	2012	96	5582408	703830	13406	2356	2251	95	5581862	704490

Record No.	HFR	LF	Rt	Northing	Easting	Record No.	HFR	LF	Rt	Northing	Easting
3727	1772	1705	96	5582408	703830	13407	1092	1051	96	5581862	704490
3728	1778	1711	96	5582408	703830	13414	1456	1403	96	5581866	704487
3734	667	697	99	5582408	703828	13415	1551	1494	96	5581867	704486
3735	1999	1957	97	5582408	703828	13465	167	176	99	5581953	704392
3736	1127	1103	97	5582408	703828	13645	107	126	99	5582283	704028
3763	92	82	88	5583179	702472	13646	524	514	98	5582285	704026
3839	26	46	99	5583147	702480	13766	6145	5598	91	5582403	703922
3851	1571	1570	99	5582257	703755	13849	402	405	99	5582191	703860
3876	755	778	99	5582253	703700	13850	862	830	96	5582192	703861
4116	1741	1593	91	5583071	702520	13851	1754	1683	95	5582192	703861
4264	25	21	86	5583108	702509	13852	1744	1675	96	5582192	703861
4501	100	167	99	5583176	702482	13853	410	417	99	5582192	703861
4563	125	144	99	5582103	701627	13967	318	324	99	5582163	703986
4567	130	180	99	5583171	702497	14198	87	135	99	5582831	701481
4602	17	34	99	5582072	701579	14324	19	31	99	5582706	701353
4607	123	132	99	5583187	702483	14358	14	25	99	5582646	701348
4777	1621	1555	95	5582135	701580	14444	183	186	99	5582515	701357
4778	935	908	97	5582136	701581	14445	225	225	99	5582514	701356
4878	786	761	96	5582304	701602	14446	123	130	99	5582513	701356
4949	144	162	99	5582186	701761	14476	26	38	99	5582495	701324
4950	196	211	99	5582186	701761	14477	32	42	99	5582495	701323
5194	70	60	85	5583080	702560	14597	86	98	99	5582461	701157
5250	1549	1484	95	5582602	701738	14664	98	98	99	5582385	701154
5384	445	430	96	5582432	701935	14665	51	55	99	5582386	701152
5385	735	706	96	5582430	701932	14736	37	43	99	5582423	701059
5824	26	24	93	5583210	702574	14737	49	54	99	5582424	701058
5901	280	240	85	5583223	702563	14751	114	119	99	5582451	701043
5902	49	49	99	5583223	702563	14858	180	180	99	5582471	700967
6325	64	66	99	5578637	705200	14859	181	180	99	5582470	700968
6326	30	34	99	5578638	705200	14881	254	250	98	5582433	700975
6470	11	21	99	5578854	705221	14932	28	30	99	5582368	700971
6471	58	62	99	5578854	705221	14956	118	118	99	5582332	700982
6481	208	209	99	5578864	705218	15227	18	22	99	5582240	700838
6583	250	248	98	5578999	705212	15413	2360	2289	96	5581652	701971
6706	101	99	98	5583282	702373	15495	635	659	99	5581882	702070
6707	28	36	99	5583282	702372	15533	224	268	99	5582004	702067
6712	35	43	99	5583283	702372	15792	188	232	99	5582629	702474
6742	70	74	99	5583306	702379	15827	2788	2703	96	5582746	702484
6752	255	237	93	5583312	702379	16025	224	246	99	5583330	702361
6824	55	53	96	5583374	702354	16334	65	95	99	5582616	702560
6825	48	43	88	5583374	702354	16453	90	103	99	5579378	706156
6965	325	339	99	5579751	705098	16469	11	13	99	5579386	706157
7472	460	457	99	5580504	705310	16684	18	26	99	5578792	706189
7479	512	513	99	5580513	705314	16685	190	189	99	5578792	706190
7550	598	606	99	5580511	705484	16686	190	189	99	5578791	706189
7601	59	94	99	5580379	705538	16827	57	62	99	5578726	706147

Record No.	HFR	LF	Rt	Northing	Easting	Record No.	HFR	LF	Rt	Northing	Easting
7602	134	165	99	5580378	705538	16828	59	63	99	5578726	706145
7703	70	107	99	5580185	705706	16829	58	63	99	5578726	706145
7723	13	41	99	5582085	702578	16830	16	25	99	5578726	706146
7746	11	40	99	5582089	702578	17147	15	20	99	5578522	706074
7804	522	525	99	5580032	705887	17148	20	24	99	5578523	706073
7805	97	123	99	5580030	705888	17271	23	19	82	5578511	705945
7906	11	21	99	5582123	702580	17354	217	216	99	5578458	705999
7919	12	22	99	5582126	702580	17355	728	700	96	5578457	705999
7920	11	22	99	5582126	702580	17719	1875	1804	96	5578989	705939
7921	12	22	99	5582126	702580	17720	17	52	99	5578990	705938
7924	14	23	99	5582129	702582	18013	919	851	92	5580037	705156
7925	12	21	99	5582129	702582	18402	104	124	99	5581972	703042
7941	17	25	99	5582139	702585	18547	26	69	99	5582126	702921
7998	1142	1119	98	5579779	706238	18549	11	60	99	5582126	702919
8001	495	514	99	5579780	706234	18569	11	60	99	5582138	702903
8002	573	587	99	5579778	706234	18578	24	77	99	5582149	702895
8003	571	585	99	5579778	706234	18590	27	81	99	5582146	702882
8024	21	28	99	5582159	702593	19192	247	204	82	5582154	702726
8025	20	27	99	5582159	702593	19411	42	57	99	5582076	702760
8029	12	26	99	5582160	702594	19512	62	82	99	5582063	702821
8032	25	34	99	5582159	702595	19530	254	226	89	5582072	702832
8033	26	38	99	5582159	702595	19727	173	159	91	5580253	704843
8034	16	28	99	5582159	702595	20040	984	909	92	5580030	705119
8035	15	27	99	5582160	702595	20618	3449	3101	89	5580018	705194
8036	12	27	99	5582160	702596	20635	153	170	99	5580028	705200
8039	10	28	99	5582161	702597	ND	177	159	89	5581628	702999
8105	22	28	99	5582166	702610	ND	1996	1913	95	5581181	703309
8116	6715	6450	96	5579374	705996	ND	4934	4705	95	5581978	703108
8117	14835	14104	95	5579374	705994	ND	2094	2029	96	5580051	703727
8118	3566	3393	95	5579372	705994	ND	3425	3291	96	5580053	703726
8119	2868	2739	95	5579371	705995	ND	989	958	96	5580788	703393
8123	303	364	99	5579375	705994	ND	2550	2456	96	5581465	702682
8124	167	231	99	5579375	705994	ND	1535	1497	97	5581886	703176
8125	628	662	99	5579375	705994	ND	568	562	98	5580789	703393
8132	11	26	99	5582170	702614	ND	516	509	98	5581042	703349
8133	15	28	99	5582170	702613	ND	406	403	99	5581115	703330
8155	12	32	99	5582174	702608	ND	303	309	99	5580625	703187

Appendix D – Analytical Certificates



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 1
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 15-MAY-2018
 This copy reported on
 7-MAR-2019
 Account: RCHRIV

VA18089973

Project: RED METAL RIDGE

This report is for 32 Rock samples submitted to our lab in Vancouver, BC, Canada on 19-APR-2018.

The following have access to data associated with this certificate:

C. LYNES

DON MACINTYRE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS41	Ultra Trace Aqua Regia ICP-MS
ME-OG46	Ore Grade Elements - AquaRegia ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 15-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089973

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
34501		1.32	0.52	5.16	25.1	0.02	<10	<10	0.29	0.31	4.30	0.15	2.40	39.5	17	0.28
34502		0.90	2.68	1.22	1.2	0.02	<10	<10	0.16	0.01	1.25	0.98	2.12	12.2	42	<0.05
34503		1.54	0.43	1.06	1.9	<0.02	<10	<10	0.14	0.11	1.58	0.13	6.29	79.9	13	<0.05
34504		1.84	0.05	0.71	0.8	<0.02	<10	<10	0.08	0.05	1.70	0.03	6.22	14.8	7	<0.05
34505		1.64	0.21	0.95	1.9	<0.02	<10	<10	0.14	0.05	2.53	0.11	7.32	53.8	14	<0.05
34506		2.10	27.4	1.82	23.2	1.17	<10	10	<0.05	0.49	0.30	22.5	1.09	408	13	0.09
34507		2.22	24.0	1.02	3.2	0.06	<10	<10	0.16	0.89	3.37	14.55	3.80	23.7	26	<0.05
34508		1.78	4.66	0.88	1.6	0.04	<10	10	0.26	0.15	1.28	10.70	5.03	23.5	26	<0.05
34509		1.56	1.98	0.95	2.2	0.02	<10	10	0.22	0.07	1.31	7.87	5.50	23.6	29	<0.05
34510		1.38	0.43	1.87	9.4	<0.02	<10	10	0.15	0.32	2.76	0.38	6.12	46.3	51	0.10
34511		1.76	2.58	1.46	3.0	<0.02	<10	<10	0.12	0.03	1.85	1.19	4.84	37.8	61	<0.05
34512		1.12	34.7	3.87	9.3	0.04	<10	<10	0.14	0.04	1.43	2.53	2.97	51.6	90	0.49
34513		1.52	1.43	1.25	303	0.07	<10	10	0.08	0.09	3.49	0.70	4.43	34.6	23	0.08
34514		1.02	1.27	1.40	571	0.02	<10	20	0.10	0.07	2.33	7.35	0.91	47.0	6	0.23
34515		1.04	1.43	1.85	1055	<0.02	<10	30	0.09	0.05	4.56	7.33	4.54	40.8	20	0.15
34516		1.04	4.02	0.48	400	<0.02	<10	10	<0.05	0.03	0.10	2.44	0.55	51.6	3	<0.05
34517		1.16	1.80	1.46	2.9	0.07	<10	<10	0.12	0.07	1.48	0.37	2.65	9.9	53	<0.05
34518		1.16	7.16	0.86	3.7	0.20	<10	10	0.11	0.05	5.87	3.11	1.08	6.2	8	<0.05
34519		1.20	4.56	3.85	0.4	0.03	<10	10	0.17	0.03	0.91	0.15	6.18	40.8	41	0.75
34520		1.06	11.80	2.62	63.7	0.06	<10	50	0.14	0.06	2.79	3.15	4.79	56.0	42	0.18
34521		1.40	1.32	3.95	67.4	<0.02	<10	50	0.19	0.08	5.35	1.26	8.98	28.0	6	0.17
34522		0.88	0.19	1.46	46.0	<0.02	<10	10	0.06	0.43	0.83	0.14	4.30	68.1	31	<0.05
RMR-R-18-01		1.44	6.79	2.31	1.3	0.05	<10	10	0.16	0.10	10.95	0.92	1.89	3.7	8	0.43
RMR-R-18-02		1.72	0.10	1.43	2.6	<0.02	<10	10	0.07	0.09	1.16	0.12	2.22	56.1	59	<0.05
RMR-R-18-03		2.28	20.8	2.65	6.1	<0.02	<10	<10	0.08	0.05	0.77	1.38	2.76	45.4	92	<0.05
RMR-R-18-04		2.30	11.85	0.74	1.9	0.09	<10	10	0.16	0.26	4.05	13.40	3.67	15.8	18	<0.05
RMR-R-18-05		1.92	9.48	1.92	23.3	1.24	<10	10	0.13	0.36	0.99	6.25	4.62	160.0	50	0.09
RMR-R-18-06		2.20	7.72	1.86	3.6	0.16	10	<10	0.23	0.13	2.65	0.77	5.69	9.1	27	0.05
RMR-R-18-07		1.94	9.65	0.74	10.3	0.05	<10	<10	0.16	0.51	6.84	4.20	0.98	16.8	12	<0.05
RMR-R-18-08		2.32	10.65	2.54	5.2	0.05	<10	<10	0.31	0.07	2.20	2.38	2.57	55.1	60	0.27
RMR-R-18-09		1.94	0.22	1.00	1.6	<0.02	<10	<10	0.10	0.07	1.87	0.16	1.19	38.7	24	<0.05
RMR-R-18-10		1.54	0.22	1.10	0.5	<0.02	<10	10	0.11	0.03	1.26	0.12	13.05	11.0	10	0.08



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 15-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089973

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
34501		521	9.31	11.45	0.24	0.11	0.03	0.014	0.06	1.0	2.9	0.77	235	0.33	0.03	<0.05
34502		3230	2.05	4.38	0.13	0.13	0.03	0.043	0.03	0.8	4.8	0.77	243	1.47	0.01	0.17
34503		189.5	6.65	5.06	0.22	0.62	0.02	0.014	0.01	2.3	1.4	0.41	178	1.12	0.02	1.43
34504		12.9	2.28	3.36	0.25	0.64	0.01	0.010	<0.01	2.3	0.6	0.19	123	0.54	<0.01	1.65
34505		281	5.18	4.32	0.19	0.59	0.02	0.016	0.01	2.7	2.5	0.60	217	0.43	0.02	1.13
34506		>10000	17.50	7.63	0.27	0.10	0.03	1.950	0.02	0.5	7.1	1.39	507	0.46	0.02	0.11
34507		>10000	6.90	3.63	0.26	0.74	0.01	0.076	0.01	1.5	1.6	0.26	537	48.2	0.01	1.58
34508		>10000	4.60	3.21	0.26	0.88	0.01	0.054	0.01	1.8	1.6	0.36	162	14.85	0.04	1.36
34509		>10000	3.17	3.08	0.20	0.81	0.01	0.035	0.01	2.1	2.9	0.57	260	11.35	0.04	1.03
34510		1010	6.33	5.89	0.20	0.78	0.01	0.057	0.02	2.0	5.7	1.10	381	0.87	0.09	0.85
34511		6520	2.68	7.25	0.17	0.34	0.02	0.073	0.01	1.8	6.1	0.67	415	1.07	0.03	0.97
34512		>10000	11.05	12.40	0.25	0.17	0.13	0.111	0.03	1.0	11.5	1.64	836	1.61	0.01	0.14
34513		1860	11.60	5.44	0.23	0.55	0.02	0.013	0.01	1.7	2.1	0.63	399	1855	0.02	0.78
34514		3360	25.7	4.87	0.10	<0.02	0.07	0.009	0.15	0.4	4.4	0.79	535	317	0.01	<0.05
34515		1740	24.3	7.92	0.13	0.21	0.04	0.024	0.12	1.8	6.1	1.02	700	843	0.01	0.40
34516		8290	27.6	2.66	0.11	0.02	0.14	0.011	0.02	0.2	1.2	0.21	127	478	<0.01	0.06
34517		3550	3.14	8.82	0.32	0.47	<0.01	0.012	0.01	1.0	2.1	0.42	182	4.70	<0.01	1.03
34518		>10000	2.11	5.50	0.18	0.14	0.01	0.008	0.02	0.5	0.7	0.14	251	8.53	0.01	0.19
34519		>10000	7.59	16.35	0.32	0.98	0.01	0.020	0.01	1.9	10.0	3.48	915	0.87	0.02	0.34
34520		>10000	5.93	13.40	0.13	0.27	0.01	0.069	0.09	1.7	16.8	1.12	1190	3.53	0.02	0.29
34521		845	5.81	8.15	0.30	0.40	0.01	0.016	0.02	5.6	1.8	0.33	139	12.85	0.02	0.07
34522		414	8.85	6.19	0.13	0.32	0.01	0.011	0.05	1.6	7.5	1.01	371	0.85	0.03	0.82
RMR-R-18-01		>10000	1.03	3.35	0.10	0.09	<0.01	0.008	0.06	0.7	1.4	0.22	152	1.98	0.01	0.09
RMR-R-18-02		72.3	5.90	4.76	0.17	0.62	<0.01	0.014	0.01	0.8	2.1	0.78	223	0.79	0.06	0.53
RMR-R-18-03		>10000	10.65	11.40	0.26	0.17	0.08	0.173	<0.01	1.0	11.9	1.69	753	1.80	0.01	0.24
RMR-R-18-04		>10000	4.27	2.73	0.17	0.50	0.01	0.049	0.01	1.4	2.1	0.34	447	14.10	0.02	0.86
RMR-R-18-05		>10000	10.85	9.45	0.27	0.53	0.01	0.391	0.04	1.8	9.2	1.54	451	0.80	0.05	0.38
RMR-R-18-06		>10000	2.04	7.26	0.34	0.49	<0.01	0.015	0.01	2.2	1.5	0.39	297	1.49	0.03	0.72
RMR-R-18-07		>10000	12.70	5.69	0.28	0.08	0.01	0.129	0.01	0.5	1.9	0.18	1060	23.2	<0.01	0.22
RMR-R-18-08		>10000	4.23	9.99	0.27	0.21	0.05	0.085	0.02	1.0	5.7	0.54	295	0.90	0.01	0.28
RMR-R-18-09		542	26.8	6.75	0.44	0.12	<0.01	0.013	0.01	0.4	0.8	0.19	424	0.32	<0.01	0.34
RMR-R-18-10		937	5.09	5.96	0.14	0.17	<0.01	0.013	0.04	6.5	3.6	0.66	444	0.95	0.07	0.20



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 15-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089973

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
34501		39.2	170	5.3	1.0	<0.001	7.60	0.15	2.7	7.5	0.2	110.0	<0.01	0.18	0.2	0.129
34502		17.7	440	5.7	0.6	0.003	0.35	0.11	4.2	0.7	0.2	64.4	<0.01	<0.01	0.2	0.137
34503		20.9	670	4.7	0.2	0.005	2.92	0.24	3.6	4.2	0.4	84.2	0.03	0.01	0.2	0.593
34504		8.2	650	2.4	<0.1	<0.001	0.73	0.08	3.6	1.4	0.4	80.9	0.02	0.01	<0.2	0.649
34505		23.5	630	2.8	0.2	0.002	1.87	0.09	3.3	1.9	0.4	56.1	0.02	0.03	0.2	0.484
34506		237	120	6.0	0.6	0.001	6.75	0.24	5.5	55.4	0.6	26.7	<0.01	0.21	<0.2	0.088
34507		20.9	480	5.3	0.3	0.444	2.71	0.28	6.0	1.6	0.4	41.7	0.03	0.13	<0.2	0.515
34508		27.2	490	4.0	0.3	0.076	2.52	0.25	5.7	0.8	0.4	42.4	0.01	0.02	0.2	0.606
34509		28.6	600	1.6	0.2	0.097	1.13	0.15	4.8	0.6	0.4	38.6	0.01	0.05	0.2	0.685
34510		33.2	380	2.0	0.4	0.003	3.11	0.14	5.3	3.4	0.9	44.6	0.02	0.18	0.2	0.511
34511		54.6	740	2.2	0.2	0.001	0.07	0.35	13.5	1.1	0.5	93.4	0.01	0.03	0.2	0.594
34512		157.0	710	2.1	0.7	<0.001	0.47	0.23	21.9	9.2	0.4	68.7	<0.01	0.02	<0.2	0.363
34513		28.6	290	7.0	0.6	0.119	8.23	0.09	5.2	3.5	0.3	52.5	0.01	0.07	<0.2	0.321
34514		23.5	10	29.6	3.6	1.855	>10.0	0.35	0.9	1.0	<0.2	27.4	<0.01	0.01	<0.2	<0.005
34515		29.3	200	33.0	2.9	0.468	>10.0	0.18	7.2	1.0	0.2	35.9	<0.01	0.01	<0.2	0.124
34516		17.7	20	40.1	0.4	0.486	>10.0	0.97	0.5	1.8	<0.2	1.9	<0.01	0.01	<0.2	0.008
34517		20.0	240	2.2	0.2	0.010	0.24	0.09	6.0	1.0	0.3	82.2	0.01	0.02	<0.2	0.413
34518		7.7	40	3.0	0.4	0.004	1.21	0.07	1.1	1.5	<0.2	70.6	<0.01	0.05	<0.2	0.057
34519		52.5	510	2.6	0.7	<0.001	0.58	0.06	12.6	0.7	0.5	29.1	0.01	0.03	0.3	0.543
34520		50.0	320	4.8	2.3	0.003	1.60	<0.05	12.2	1.3	0.3	46.9	0.01	0.04	0.2	0.254
34521		46.8	690	5.0	1.1	0.148	4.10	0.75	1.6	71.3	0.4	110.5	<0.01	0.24	1.1	0.108
34522		43.5	490	21.3	1.2	0.001	7.56	0.20	5.7	1.4	0.4	24.0	0.01	0.17	0.2	0.509
RMR-R-18-01		4.9	140	7.2	2.0	0.003	0.18	<0.05	3.1	1.8	<0.2	51.6	<0.01	0.01	<0.2	0.082
RMR-R-18-02		30.5	390	55.9	0.4	0.002	3.31	0.25	4.2	4.7	0.4	58.4	0.01	0.03	<0.2	0.581
RMR-R-18-03		121.0	710	1.8	0.2	<0.001	0.74	0.17	23.8	8.9	0.4	37.8	0.01	0.01	<0.2	0.347
RMR-R-18-04		23.9	390	3.0	0.4	0.106	1.50	0.20	3.5	1.0	0.3	39.1	0.01	0.04	<0.2	0.347
RMR-R-18-05		118.5	470	2.0	1.3	0.001	5.14	0.22	10.5	26.4	0.5	36.7	0.01	0.22	0.2	0.392
RMR-R-18-06		14.3	560	4.2	0.2	0.001	0.54	0.05	4.8	2.7	0.3	52.1	0.02	0.03	0.2	0.448
RMR-R-18-07		12.1	100	3.7	0.1	0.146	1.08	0.11	3.2	1.4	0.3	25.9	<0.01	0.07	<0.2	0.083
RMR-R-18-08		87.8	910	2.8	0.4	0.001	0.13	0.25	16.0	2.2	0.3	113.5	<0.01	0.02	<0.2	0.420
RMR-R-18-09		105.0	120	0.4	0.1	<0.001	0.08	0.27	1.8	0.3	0.3	71.2	0.01	0.01	<0.2	0.166
RMR-R-18-10		8.2	1120	1.1	1.1	0.003	0.07	<0.05	8.1	0.2	0.3	23.8	0.01	<0.01	1.1	0.212



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 2 - D
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 15-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089973

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46
		Tl	U	V	W	Y	Zn	Zr	Cu
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
34501		0.13	0.05	56	0.96	3.60	42	2.8	
34502		<0.02	0.11	63	<0.05	3.48	50	3.3	
34503		<0.02	0.07	120	0.12	9.49	22	17.0	
34504		<0.02	0.06	98	0.09	8.26	11	17.0	
34505		<0.02	0.07	121	0.09	9.85	25	15.3	
34506		0.15	<0.05	117	<0.05	3.21	413	2.2	14.95
34507		<0.02	0.06	97	0.09	7.83	79	21.0	5.27
34508		0.02	0.08	114	0.07	10.50	127	27.0	3.92
34509		<0.02	0.09	116	0.08	11.10	158	22.3	1.875
34510		<0.02	0.15	79	0.33	10.70	28	26.2	
34511		<0.02	0.09	201	0.08	11.10	70	6.2	
34512		<0.02	0.08	191	0.14	9.17	136	3.5	5.29
34513		5.98	<0.05	84	1.06	5.45	36	15.0	
34514		39.5	<0.05	15	0.07	1.99	52	<0.5	
34515		34.6	<0.05	83	0.11	6.15	73	5.0	
34516		34.1	<0.05	23	0.06	0.47	13	0.5	
34517		0.12	0.08	105	<0.05	3.38	17	18.4	
34518		0.11	<0.05	23	<0.05	1.25	11	3.4	3.20
34519		0.08	0.35	158	0.10	13.35	89	37.1	2.32
34520		0.07	0.08	145	<0.05	7.69	70	8.2	4.96
34521		0.24	1.88	34	0.29	7.30	47	19.3	
34522		<0.02	0.06	122	0.07	8.46	60	6.9	
RMR-R-18-01		0.03	<0.05	43	0.10	3.27	16	2.7	1.355
RMR-R-18-02		<0.02	0.07	95	0.38	4.61	26	15.2	
RMR-R-18-03		<0.02	0.06	234	0.10	7.78	126	3.3	3.54
RMR-R-18-04		0.02	0.05	74	0.07	6.94	79	15.1	3.31
RMR-R-18-05		0.07	0.06	168	0.06	9.89	222	12.9	4.17
RMR-R-18-06		<0.02	0.09	75	0.07	9.21	20	14.7	2.54
RMR-R-18-07		<0.02	<0.05	50	0.14	3.10	44	2.0	4.20
RMR-R-18-08		<0.02	0.13	215	0.13	9.40	71	3.9	2.42
RMR-R-18-09		<0.02	<0.05	91	0.35	3.17	20	4.0	
RMR-R-18-10		<0.02	0.29	180	0.09	11.20	48	3.2	



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
PO BOX 131
GRINDROD BC V0E 1Y0

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 15-MAY-2018
Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089973

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

CRU-31	CRU-QC	Cu-OG46	LOG-22
ME-MS41	ME-OG46	PUL-31	PUL-QC
SPL-21	WEI-21		



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
PO BOX 131
GRINDROD BC V0E 1Y0

Page: 1
Total # Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 11-MAY-2018
This copy reported on
7-MAR-2019
Account: RCHRIV

VA18089965

Project: RED METAL RIDGE

This report is for 200 Soil samples submitted to our lab in Vancouver, BC, Canada on 19-APR-2018.

The following have access to data associated with this certificate:

C. LYNES

DON MACINTYRE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS41	Ultra Trace Aqua Regia ICP-MS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 2 - A
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
RMR-18-SS-01		0.58	0.24	3.71	1.7	<0.02	<10	20	0.39	0.04	2.00	0.58	9.51	21.2	42	0.17
RMR-18-SS-02		0.28	0.09	3.95	1.0	<0.02	<10	10	0.26	0.07	0.76	0.24	7.12	7.6	82	0.18
RMR-18-SS-03		0.44	0.35	2.46	3.7	<0.02	<10	20	0.28	0.04	1.81	0.33	11.10	24.6	33	0.19
RMR-18-SS-04		0.14	0.13	0.14	2.6	<0.02	<10	20	<0.05	0.09	0.34	0.14	0.61	0.9	3	<0.05
RMR-18-SS-05		0.50	0.03	4.50	1.0	<0.02	<10	20	0.46	0.02	1.89	0.27	20.6	21.1	42	0.16
RMR-18-SS-06		0.46	0.17	5.35	1.1	<0.02	<10	10	0.45	0.05	1.15	0.19	14.75	13.5	77	0.25
RMR-18-SS-07		0.54	0.15	5.08	1.1	<0.02	<10	10	0.47	0.05	1.54	0.15	16.05	17.2	65	0.24
RMR-18-SS-08		0.36	0.19	5.52	1.7	<0.02	<10	10	0.42	0.09	0.65	0.20	8.18	7.3	87	0.24
RMR-18-SS-09		0.56	0.12	4.85	1.1	<0.02	<10	10	0.37	0.06	0.84	0.18	8.09	10.8	72	0.20
RMR-18-SS-10		0.56	0.17	5.65	1.2	0.03	<10	20	0.48	0.08	0.88	0.29	18.85	20.9	96	0.43
RMR-18-SS-11		0.44	0.06	3.96	1.1	<0.02	<10	20	0.26	0.06	1.05	0.29	13.35	31.1	71	0.28
RMR-18-SS-12		0.38	0.19	4.84	1.6	<0.02	<10	10	0.22	0.12	0.59	0.20	6.77	6.7	121	0.29
RMR-18-SS-13		0.52	0.09	9.31	1.5	<0.02	<10	10	0.48	0.04	0.48	0.11	14.20	5.2	123	0.24
RMR-18-SS-14		0.50	0.07	5.13	1.3	<0.02	<10	10	0.45	0.02	1.36	0.20	30.0	15.5	92	0.31
RMR-18-SS-15		0.58	0.09	4.94	1.1	<0.02	<10	10	0.41	0.04	1.12	0.16	13.10	12.7	73	0.21
RMR-18-SS-16		0.30	0.17	3.02	0.9	<0.02	<10	30	0.26	0.07	1.45	0.57	6.63	17.9	48	0.26
RMR-18-SS-17		0.22	0.06	0.36	1.2	<0.02	<10	10	<0.05	0.12	0.33	0.16	1.90	3.1	15	<0.05
RMR-18-SS-18		0.48	0.11	4.78	1.4	<0.02	<10	20	0.32	0.07	1.04	0.22	11.00	13.6	69	0.32
RMR-18-SS-19		0.46	0.11	7.82	1.4	<0.02	<10	10	0.48	0.08	0.44	0.15	14.20	6.6	108	0.30
RMR-18-SS-20		0.46	0.16	5.60	2.3	<0.02	<10	10	0.31	0.08	0.52	0.60	6.89	7.8	111	0.37
RMR-18-SS-21		0.50	0.15	4.60	1.5	<0.02	<10	20	0.38	0.06	0.98	0.62	7.55	14.8	71	0.37
RMR-18-SS-22		0.42	0.19	4.05	1.4	<0.02	<10	20	0.28	0.08	0.84	0.30	6.61	9.4	71	0.24
RMR-18-SS-23		0.50	0.18	6.15	1.9	<0.02	<10	10	0.42	0.07	0.54	0.59	13.05	27.3	97	0.29
RMR-18-SS-24		0.40	0.17	4.50	1.7	<0.02	<10	10	0.20	0.09	0.37	0.39	6.15	7.4	87	0.27
RMR-18-SS-25		0.20	0.10	1.97	2.2	<0.02	<10	30	0.19	0.08	0.72	0.31	8.00	10.3	38	0.18
RMR-18-SS-26		0.52	0.14	6.16	2.0	<0.02	<10	10	0.22	0.08	0.82	0.21	5.90	19.7	138	0.65
RMR-18-SS-27		0.56	0.05	8.36	2.9	<0.02	<10	10	0.30	0.07	0.40	0.15	7.30	5.8	137	0.29
RMR-18-SS-28		0.62	0.07	6.50	2.6	<0.02	<10	30	0.53	0.07	0.72	0.60	18.85	15.4	106	0.66
RMR-18-SS-29		0.24	0.08	0.57	0.8	<0.02	<10	10	<0.05	0.05	0.24	0.23	1.48	1.7	19	0.05
RMR-18-SS-30		0.50	0.08	5.83	2.2	<0.02	<10	10	0.33	0.10	0.35	0.23	8.11	5.1	82	0.26
RMR-18-SS-31		0.26	0.07	2.13	2.6	<0.02	<10	10	0.14	0.11	0.32	0.13	5.57	3.6	45	0.11
RMR-18-SS-32		0.48	0.07	9.69	4.4	<0.02	<10	30	0.94	0.03	0.55	0.19	19.40	12.8	79	0.28
RMR-18-SS-33		0.54	0.11	3.83	2.0	<0.02	10	40	0.43	0.05	1.83	0.19	24.0	25.5	48	0.32
RMR-18-SS-34		0.50	0.18	5.88	1.2	<0.02	10	40	0.54	0.05	1.73	0.16	33.8	34.0	102	0.51
RMR-18-SS-35		0.44	0.17	5.54	0.9	<0.02	<10	30	0.67	0.06	1.47	0.18	24.4	32.7	94	0.56
RMR-18-SS-36		0.48	0.15	4.31	1.6	<0.02	10	20	0.52	0.05	1.46	0.18	15.70	18.9	69	0.28
RMR-18-SS-37		0.40	0.15	4.35	0.9	<0.02	<10	20	0.34	0.06	1.01	0.14	10.65	11.9	89	0.24
RMR-18-SS-38		0.40	0.05	3.90	1.4	<0.02	10	30	0.39	0.03	1.99	0.14	18.05	24.3	50	0.24
RMR-18-SS-39		0.36	0.05	2.73	1.0	<0.02	10	10	0.35	0.01	2.28	0.10	12.35	19.1	29	0.15
RMR-18-SS-40		0.46	0.11	4.92	0.7	0.03	<10	20	0.42	0.06	1.26	0.14	16.65	14.2	82	0.22



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 2 - B
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
RMR-18-SS-01		1120	4.90	11.55	0.19	0.73	0.08	0.048	0.02	3.4	5.2	0.95	506	0.56	0.02	2.96
RMR-18-SS-02		98.5	4.77	15.00	0.08	0.60	0.22	0.066	0.02	2.6	4.3	0.32	162	0.94	0.01	5.15
RMR-18-SS-03		556	2.23	4.83	0.11	0.05	0.21	0.027	0.02	3.5	4.1	0.59	1560	12.50	0.01	1.08
RMR-18-SS-04		11.9	0.22	0.52	0.05	<0.02	0.28	0.010	0.03	0.3	0.1	0.05	15	0.24	0.01	0.19
RMR-18-SS-05		261	4.88	10.80	0.20	1.06	0.06	0.041	0.01	4.9	4.4	0.93	407	0.52	0.02	2.32
RMR-18-SS-06		123.5	8.18	16.75	0.12	1.25	0.20	0.070	0.01	2.9	3.7	0.51	320	0.62	0.01	4.64
RMR-18-SS-07		157.0	6.80	14.90	0.12	1.01	0.17	0.062	0.01	4.4	3.8	0.67	421	0.51	0.01	4.32
RMR-18-SS-08		78.3	8.83	18.90	0.09	0.94	0.26	0.080	0.01	2.7	3.9	0.24	196	0.54	0.01	6.09
RMR-18-SS-09		146.0	8.48	17.35	0.10	0.87	0.22	0.068	0.01	3.0	4.3	0.53	243	0.61	0.01	5.04
RMR-18-SS-10		161.0	9.42	19.10	0.10	1.00	0.21	0.077	0.01	3.9	5.6	0.39	362	0.96	0.01	5.27
RMR-18-SS-11		118.0	6.55	17.30	0.11	0.70	0.19	0.069	0.01	4.8	3.7	0.52	529	0.92	0.01	5.47
RMR-18-SS-12		83.4	11.35	26.0	0.10	1.39	0.26	0.099	0.01	2.0	2.7	0.25	142	0.54	0.01	4.35
RMR-18-SS-13		109.5	7.99	13.15	0.11	1.59	0.35	0.087	0.01	4.2	3.2	0.19	92	0.68	<0.01	4.63
RMR-18-SS-14		130.5	6.48	12.70	0.15	1.44	0.17	0.070	0.01	3.5	4.7	0.70	319	0.49	0.01	4.47
RMR-18-SS-15		135.0	7.42	15.55	0.12	0.86	0.15	0.064	0.01	3.9	3.5	0.49	369	0.50	0.01	4.75
RMR-18-SS-16		527	5.76	14.25	0.12	0.33	0.09	0.042	0.04	2.5	5.4	0.86	756	0.44	0.03	2.74
RMR-18-SS-17		33.1	3.21	3.95	0.08	0.08	0.17	0.012	0.02	0.9	0.2	0.08	70	0.31	0.01	3.08
RMR-18-SS-18		140.0	6.77	16.15	0.11	0.76	0.18	0.058	0.02	3.4	4.4	0.59	495	0.83	0.02	4.48
RMR-18-SS-19		194.5	8.54	14.35	0.08	1.01	0.32	0.096	0.01	5.2	5.1	0.21	141	0.84	0.01	5.13
RMR-18-SS-20		106.5	8.79	25.8	0.09	0.60	0.37	0.076	0.01	2.4	4.2	0.32	512	0.83	0.01	5.43
RMR-18-SS-21		135.5	7.31	14.15	0.10	0.40	0.20	0.065	0.01	2.6	4.8	0.51	397	1.73	0.01	4.88
RMR-18-SS-22		83.5	6.82	15.45	0.09	0.49	0.20	0.049	0.01	2.4	3.5	0.35	292	0.72	0.01	4.69
RMR-18-SS-23		93.9	6.61	16.20	0.10	0.60	0.26	0.067	0.01	3.3	4.7	0.32	514	2.74	0.01	5.22
RMR-18-SS-24		90.8	6.81	19.25	0.09	0.47	0.24	0.053	0.01	2.2	3.2	0.29	289	0.79	0.01	4.66
RMR-18-SS-25		54.6	1.75	4.05	0.09	0.04	0.36	0.019	0.03	3.3	2.5	0.37	1020	9.24	0.02	1.07
RMR-18-SS-26		155.0	7.00	17.20	0.10	0.28	0.22	0.045	0.03	2.1	13.8	2.17	494	0.64	0.03	3.11
RMR-18-SS-27		55.2	6.69	16.55	0.10	0.94	0.17	0.074	0.01	3.2	3.9	0.28	149	1.05	0.01	4.53
RMR-18-SS-28		91.3	7.21	15.35	0.09	1.12	0.18	0.065	0.01	3.8	7.5	0.48	213	1.09	0.01	4.51
RMR-18-SS-29		8.0	0.66	1.34	0.07	<0.02	0.15	0.005	0.02	0.8	0.2	0.09	44	0.28	0.01	0.65
RMR-18-SS-30		53.3	7.60	16.85	0.09	0.60	0.36	0.063	0.01	2.9	3.5	0.17	266	1.04	0.01	4.98
RMR-18-SS-31		33.1	5.02	16.75	0.08	0.25	0.18	0.029	0.01	2.1	1.2	0.12	110	1.09	0.01	5.02
RMR-18-SS-32		81.5	3.93	9.33	0.10	0.36	0.24	0.044	0.01	8.2	3.9	0.29	262	1.94	0.01	2.54
RMR-18-SS-33		170.5	5.48	11.30	0.15	0.45	0.13	0.043	0.03	7.2	5.9	0.94	861	0.59	0.02	2.78
RMR-18-SS-34		195.0	8.10	16.80	0.11	0.51	0.14	0.069	0.02	8.5	8.4	1.19	776	0.82	0.01	3.34
RMR-18-SS-35		152.0	8.77	18.05	0.11	0.56	0.12	0.078	0.01	7.2	7.8	0.93	649	0.90	0.01	3.44
RMR-18-SS-36		81.4	6.66	13.95	0.09	0.73	0.17	0.060	0.01	3.6	4.9	0.61	325	0.69	0.01	4.49
RMR-18-SS-37		65.0	7.93	16.30	0.07	0.70	0.19	0.067	0.01	3.0	3.6	0.42	266	0.66	0.01	4.47
RMR-18-SS-38		149.0	5.75	12.35	0.13	0.78	0.05	0.045	0.02	5.1	5.0	1.08	581	0.88	0.02	2.06
RMR-18-SS-39		88.2	3.88	9.18	0.21	0.44	0.05	0.036	0.02	4.3	2.9	0.80	648	0.42	0.02	2.62
RMR-18-SS-40		86.5	6.81	14.50	0.07	0.73	0.16	0.062	0.02	3.1	4.5	0.46	386	0.92	0.01	4.68



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 2 - C
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
RMR-18-SS-01		30.7	410	3.0	0.7	<0.001	0.02	0.11	13.9	0.6	0.7	45.5	0.04	0.02	0.4	0.574
RMR-18-SS-02		14.5	410	6.1	0.8	<0.001	0.06	0.17	14.0	0.5	1.1	10.9	0.11	0.01	0.5	0.720
RMR-18-SS-03		27.8	870	5.4	0.7	0.005	0.33	0.14	5.7	3.2	0.3	41.3	0.01	0.01	<0.2	0.126
RMR-18-SS-04		3.4	540	18.0	1.0	<0.001	0.12	0.35	0.3	0.5	0.4	9.1	<0.01	<0.01	<0.2	0.022
RMR-18-SS-05		35.3	650	1.9	0.6	<0.001	0.02	0.05	19.3	0.4	0.7	17.4	0.02	0.01	0.6	0.610
RMR-18-SS-06		23.6	350	4.3	0.7	<0.001	0.05	0.12	17.7	0.9	1.2	10.6	0.11	0.02	0.7	0.939
RMR-18-SS-07		28.0	480	2.8	0.8	<0.001	0.03	0.09	19.7	1.0	1.0	14.4	0.10	0.02	0.6	0.827
RMR-18-SS-08		14.9	540	8.6	0.7	<0.001	0.06	0.21	11.8	1.2	1.4	8.7	0.16	0.01	0.8	0.899
RMR-18-SS-09		18.7	540	7.0	0.7	<0.001	0.05	0.22	12.3	1.0	1.2	15.0	0.15	0.01	0.6	0.828
RMR-18-SS-10		26.3	450	3.5	1.3	<0.001	0.04	0.12	16.9	1.1	1.4	15.1	0.13	0.04	0.8	1.075
RMR-18-SS-11		20.0	360	6.5	0.8	<0.001	0.04	0.12	11.3	0.7	1.3	12.7	0.12	0.01	0.6	0.982
RMR-18-SS-12		13.7	410	9.1	0.8	<0.001	0.05	0.25	13.3	0.8	1.7	7.7	0.15	<0.01	0.9	1.105
RMR-18-SS-13		11.9	420	1.8	0.6	0.001	0.07	0.09	27.5	2.1	0.8	5.2	0.01	0.04	1.1	0.580
RMR-18-SS-14		34.8	260	1.8	0.7	<0.001	0.03	0.07	26.4	0.5	0.9	11.6	0.10	0.01	0.8	0.763
RMR-18-SS-15		20.2	480	2.4	0.7	<0.001	0.04	0.09	15.1	0.8	1.1	13.0	0.13	0.03	0.6	0.812
RMR-18-SS-16		25.7	490	11.2	1.1	<0.001	0.04	0.23	8.1	0.2	1.0	66.9	0.04	<0.01	0.3	0.606
RMR-18-SS-17		6.5	340	10.2	0.4	<0.001	0.08	0.30	1.3	0.4	1.1	13.2	0.02	0.01	0.2	0.478
RMR-18-SS-18		20.8	550	9.7	1.5	<0.001	0.06	0.18	13.8	0.6	1.2	21.5	0.09	0.01	0.7	0.705
RMR-18-SS-19		14.6	530	3.0	0.7	<0.001	0.07	0.12	23.2	1.7	1.0	6.6	0.02	0.05	0.9	0.618
RMR-18-SS-20		15.7	490	5.3	0.8	<0.001	0.07	0.25	10.3	1.3	1.1	13.4	0.12	0.03	0.6	0.707
RMR-18-SS-21		23.6	390	2.8	0.8	<0.001	0.05	0.11	8.6	0.8	0.9	16.6	0.12	0.02	0.4	0.717
RMR-18-SS-22		18.2	430	5.2	0.6	<0.001	0.06	0.17	8.0	0.8	1.2	18.6	0.13	<0.01	0.5	0.734
RMR-18-SS-23		19.5	430	3.6	0.8	0.001	0.06	0.14	13.0	1.0	1.1	9.0	0.14	0.01	0.6	0.787
RMR-18-SS-24		14.7	370	8.5	0.7	<0.001	0.07	0.29	8.0	0.6	1.2	16.5	0.12	0.02	0.5	0.735
RMR-18-SS-25		18.5	920	21.5	0.8	0.002	0.16	0.22	3.3	2.6	0.5	27.8	0.01	0.01	<0.2	0.114
RMR-18-SS-26		61.3	430	6.3	1.2	<0.001	0.04	0.20	8.8	1.0	0.9	74.6	0.04	0.02	0.5	0.526
RMR-18-SS-27		15.5	490	3.4	0.5	<0.001	0.06	0.19	14.0	1.0	0.9	9.3	0.01	0.02	0.9	0.554
RMR-18-SS-28		37.3	320	3.2	1.1	<0.001	0.04	0.14	19.5	0.9	1.0	12.5	0.02	0.02	1.0	0.726
RMR-18-SS-29		6.1	380	4.1	0.9	<0.001	0.12	0.10	0.7	0.4	0.4	12.5	<0.01	0.01	<0.2	0.091
RMR-18-SS-30		10.4	590	6.5	0.6	<0.001	0.07	0.26	10.8	1.3	1.1	8.5	0.15	0.04	0.8	0.642
RMR-18-SS-31		10.2	300	8.2	0.6	<0.001	0.07	0.36	4.2	0.7	1.4	9.7	0.11	<0.01	0.4	0.714
RMR-18-SS-32		21.0	830	2.1	0.8	<0.001	0.05	0.13	19.3	1.7	0.4	19.6	0.01	0.04	0.6	0.292
RMR-18-SS-33		39.4	640	8.5	2.7	<0.001	0.01	0.13	15.5	0.7	0.8	40.3	0.01	0.02	0.8	0.571
RMR-18-SS-34		72.0	610	2.5	1.8	<0.001	0.02	0.07	20.6	1.3	1.0	22.3	0.01	0.02	0.8	0.743
RMR-18-SS-35		58.3	610	3.5	2.4	<0.001	0.01	0.09	18.4	0.8	1.0	17.1	0.02	0.03	0.8	0.805
RMR-18-SS-36		35.8	620	3.9	1.6	<0.001	0.02	0.11	14.7	0.9	1.0	17.4	0.05	0.01	0.7	0.750
RMR-18-SS-37		21.2	500	3.8	1.2	<0.001	0.03	0.12	12.5	0.7	1.1	14.4	0.08	0.01	0.6	0.835
RMR-18-SS-38		42.3	440	7.3	1.7	<0.001	<0.01	0.11	15.3	0.2	1.0	31.4	0.02	0.01	0.8	0.622
RMR-18-SS-39		25.3	350	3.7	0.8	<0.001	0.01	0.06	11.2	0.5	0.6	25.3	0.02	0.01	0.3	0.533
RMR-18-SS-40		28.4	330	5.1	1.2	<0.001	0.03	0.09	13.6	0.7	1.0	16.6	0.08	0.03	0.7	0.718



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 2 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.02	0.05	1	0.05	0.05	2	0.5
RMR-18-SS-01		<0.02	0.18	208	<0.05	11.15	45	30.1
RMR-18-SS-02		<0.02	0.27	244	<0.05	5.61	25	25.6
RMR-18-SS-03		0.04	0.66	95	0.12	9.15	50	2.0
RMR-18-SS-04		<0.02	<0.05	13	<0.05	0.25	17	<0.5
RMR-18-SS-05		<0.02	0.25	213	0.06	17.20	40	43.2
RMR-18-SS-06		<0.02	0.23	366	<0.05	9.65	34	48.6
RMR-18-SS-07		<0.02	0.26	310	<0.05	14.50	38	43.9
RMR-18-SS-08		<0.02	0.27	367	<0.05	6.13	26	39.3
RMR-18-SS-09		<0.02	0.26	323	<0.05	7.94	31	32.7
RMR-18-SS-10		0.02	0.28	412	<0.05	11.20	41	40.5
RMR-18-SS-11		<0.02	0.28	315	<0.05	10.80	33	32.0
RMR-18-SS-12		<0.02	0.26	479	<0.05	4.48	25	51.2
RMR-18-SS-13		<0.02	0.42	244	<0.05	14.55	18	59.4
RMR-18-SS-14		<0.02	0.34	271	0.05	14.20	40	55.1
RMR-18-SS-15		<0.02	0.29	312	<0.05	10.70	31	35.2
RMR-18-SS-16		<0.02	0.13	274	0.05	7.25	41	12.8
RMR-18-SS-17		<0.02	0.06	261	<0.05	0.76	14	2.6
RMR-18-SS-18		<0.02	0.28	298	<0.05	9.59	37	31.6
RMR-18-SS-19		<0.02	0.46	252	<0.05	15.30	24	38.9
RMR-18-SS-20		<0.02	0.28	325	<0.05	5.23	34	22.8
RMR-18-SS-21		<0.02	0.34	245	<0.05	7.16	39	17.5
RMR-18-SS-22		<0.02	0.24	300	<0.05	5.62	31	20.1
RMR-18-SS-23		<0.02	0.43	291	<0.05	8.97	37	24.6
RMR-18-SS-24		<0.02	0.22	311	<0.05	4.71	26	17.6
RMR-18-SS-25		0.03	0.15	78	0.09	6.87	35	1.7
RMR-18-SS-26		0.02	0.28	264	<0.05	5.08	41	11.5
RMR-18-SS-27		<0.02	0.48	246	<0.05	6.86	20	34.9
RMR-18-SS-28		0.02	0.44	278	<0.05	10.55	56	41.8
RMR-18-SS-29		<0.02	0.07	53	<0.05	0.48	13	0.6
RMR-18-SS-30		<0.02	0.44	301	<0.05	5.84	21	24.4
RMR-18-SS-31		<0.02	0.30	342	<0.05	3.09	16	9.7
RMR-18-SS-32		0.03	1.03	120	0.08	23.2	38	12.7
RMR-18-SS-33		0.03	0.40	212	0.08	17.45	57	20.8
RMR-18-SS-34		0.02	0.33	289	0.06	23.2	108	23.2
RMR-18-SS-35		0.02	0.33	312	0.05	20.5	114	26.0
RMR-18-SS-36		<0.02	0.29	257	0.05	9.70	68	30.1
RMR-18-SS-37		<0.02	0.26	336	<0.05	7.44	46	27.4
RMR-18-SS-38		<0.02	0.29	226	0.05	13.20	61	31.0
RMR-18-SS-39		<0.02	0.19	184	0.06	12.95	38	19.1
RMR-18-SS-40		<0.02	0.30	281	<0.05	8.33	50	28.1



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 3 - A
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
RMR-18-SS-41		0.46	0.07	5.97	1.0	<0.02	<10	20	0.50	0.03	0.93	0.10	16.60	12.0	73	0.22
RMR-18-SS-42		0.56	0.03	2.67	0.9	<0.02	<10	30	0.28	0.02	1.71	0.08	12.90	20.5	37	0.23
RMR-18-SS-43		0.42	0.19	3.21	0.7	<0.02	<10	20	0.36	0.08	1.06	0.14	16.70	17.4	67	0.30
RMR-18-SS-44		0.42	0.11	3.10	0.6	<0.02	<10	30	0.29	0.10	1.01	0.12	14.10	12.4	69	0.35
RMR-18-SS-45		0.48	0.10	3.97	0.7	<0.02	<10	20	0.42	0.07	1.12	0.15	13.55	13.8	77	0.31
RMR-18-SS-46		0.46	0.10	4.74	0.7	<0.02	<10	20	0.55	0.04	1.38	0.14	17.40	19.3	91	0.32
RMR-18-SS-47		0.48	0.13	3.83	0.6	<0.02	<10	20	0.39	0.08	1.03	0.13	10.55	11.9	88	0.27
RMR-18-SS-48		0.40	0.13	3.43	0.5	<0.02	10	20	0.44	0.06	1.37	0.12	15.70	22.7	63	0.34
RMR-18-SS-49		0.54	0.16	6.30	1.1	<0.02	<10	20	0.65	0.04	1.20	0.14	24.0	19.8	103	0.41
RMR-18-SS-50		0.66	0.13	4.62	1.0	<0.02	<10	20	0.48	0.03	1.27	0.13	20.1	17.6	68	0.34
RMR-18-SS-51		0.52	0.13	4.18	0.6	<0.02	<10	20	0.34	0.07	0.90	0.15	5.89	11.0	95	0.40
RMR-18-SS-52		0.56	0.07	4.99	0.8	<0.02	<10	20	0.54	0.05	1.74	0.18	13.35	19.5	80	0.75
RMR-18-SS-53		0.50	0.07	5.04	1.2	<0.02	10	10	0.49	0.02	2.00	0.11	27.1	20.4	60	0.30
RMR-18-SS-54		0.52	0.09	4.41	1.1	<0.02	<10	20	0.46	0.05	1.70	0.12	26.7	18.9	74	0.25
RMR-18-SS-55		0.52	0.16	4.78	1.3	<0.02	<10	20	0.46	0.09	1.10	0.14	13.65	18.7	71	0.41
RMR-18-SS-56		0.48	0.09	4.31	0.8	<0.02	<10	20	0.49	0.05	1.95	0.16	17.70	22.2	63	0.38
RMR-18-SS-57		0.54	0.03	4.10	0.6	<0.02	<10	10	0.46	0.04	2.01	0.12	13.70	17.4	49	0.29
RMR-18-SS-58		0.52	0.11	5.15	1.0	<0.02	<10	20	0.49	0.05	1.64	0.11	30.3	19.2	74	0.32
RMR-18-SS-59		0.50	0.06	3.94	1.0	<0.02	10	20	0.48	0.02	2.15	0.10	21.7	19.2	39	0.18
RMR-18-SS-60		0.56	0.07	3.93	0.8	<0.02	10	10	0.50	0.02	2.08	0.24	16.05	16.8	32	0.15
RMR-18-SS-61		0.42	0.16	5.67	1.3	<0.02	10	20	0.55	0.01	1.54	0.71	12.30	13.4	41	0.16
RMR-18-SS-62		0.52	0.14	5.30	1.2	<0.02	<10	20	0.59	0.07	1.23	0.27	17.20	19.2	52	0.32
RMR-18-SS-63		0.24	0.13	2.93	0.7	<0.02	<10	20	0.33	0.10	1.24	0.19	17.55	15.4	54	0.41
RMR-18-SS-64		0.36	0.05	5.27	3.7	<0.02	<10	30	0.49	0.08	1.69	0.19	29.7	29.7	50	0.81
RMR-18-SS-65		0.34	0.18	4.04	1.3	<0.02	<10	10	0.45	0.10	0.78	0.29	18.35	13.2	75	0.27
RMR-18-SS-66		0.32	0.18	3.65	1.1	<0.02	<10	30	0.37	0.04	1.12	0.17	19.20	17.8	64	0.30
RMR-18-SS-67		0.38	0.13	4.90	1.1	<0.02	<10	30	0.58	0.05	0.97	0.20	12.80	15.6	77	0.33
RMR-18-SS-68		0.38	0.25	4.60	1.2	<0.02	<10	20	0.45	0.09	0.74	0.23	10.85	11.7	63	0.25
RMR-18-SS-69		0.32	0.20	6.97	1.7	<0.02	<10	30	0.62	0.06	0.71	0.61	17.75	18.4	88	0.81
RMR-18-SS-70		0.32	0.24	5.20	1.0	<0.02	<10	20	0.58	0.05	1.01	0.34	14.05	14.7	71	0.38
RMR-18-SS-71		0.36	0.07	3.22	0.9	<0.02	<10	40	0.48	0.04	1.46	0.30	12.80	17.2	61	0.25
RMR-18-SS-72		0.38	0.17	4.19	1.7	<0.02	<10	30	0.50	0.09	0.96	0.54	18.65	14.5	72	0.41
RMR-18-SS-73		0.26	0.15	2.89	1.0	<0.02	<10	50	0.59	0.10	1.07	0.40	22.7	65.4	56	0.52
RMR-18-SS-74		0.32	0.07	5.50	1.3	<0.02	<10	20	0.63	0.03	0.88	0.17	32.3	19.2	59	0.24
RMR-18-SS-75		0.42	0.14	3.73	0.8	<0.02	<10	40	0.74	0.06	1.52	0.31	32.1	48.7	69	0.37
RMR-18-SS-76		0.24	0.15	4.08	1.2	<0.02	<10	30	0.63	0.08	0.47	0.31	12.95	19.0	40	0.34
RMR-18-SS-77		0.24	0.22	2.68	1.0	<0.02	<10	30	0.25	0.09	0.50	0.22	5.14	6.2	34	0.22
RMR-18-SS-78		0.40	0.11	5.57	0.6	<0.02	<10	20	0.50	0.06	0.50	0.13	11.05	10.8	48	0.25
RMR-18-SS-79		0.28	0.10	7.00	1.2	<0.02	<10	20	0.58	0.05	0.53	0.16	9.48	5.6	68	0.20
RMR-18-SS-80		0.28	0.09	3.50	0.8	<0.02	<10	20	0.40	0.07	0.78	0.17	8.56	12.3	42	0.33



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 3 - B
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOD		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
RMR-18-SS-41		101.0	5.79	9.07	0.08	0.58	0.23	0.062	0.01	3.5	4.3	0.46	242	0.45	0.01	4.01
RMR-18-SS-42		96.4	4.06	8.53	0.15	0.35	0.02	0.031	0.04	4.5	3.7	0.74	663	0.32	0.03	1.35
RMR-18-SS-43		79.3	6.95	15.35	0.08	0.31	0.10	0.055	0.02	3.5	4.1	0.35	529	1.25	0.01	3.66
RMR-18-SS-44		47.2	7.24	17.60	0.06	0.48	0.12	0.056	0.02	5.3	3.7	0.34	284	0.79	0.01	4.06
RMR-18-SS-45		62.4	7.43	15.75	0.08	0.71	0.15	0.057	0.01	2.9	3.6	0.41	238	0.51	0.01	2.93
RMR-18-SS-46		65.4	7.83	15.30	0.09	0.80	0.13	0.071	0.01	3.1	4.0	0.43	388	0.55	0.01	4.23
RMR-18-SS-47		51.2	9.11	20.9	0.07	0.70	0.17	0.076	0.01	2.7	3.6	0.28	257	0.70	0.01	4.80
RMR-18-SS-48		68.0	6.55	13.65	0.08	0.35	0.10	0.056	0.01	4.1	4.1	0.50	618	0.90	0.01	3.90
RMR-18-SS-49		66.7	7.58	13.60	0.09	1.02	0.17	0.081	0.01	4.2	5.0	0.47	252	1.03	0.01	4.78
RMR-18-SS-50		84.4	6.06	12.60	0.10	0.42	0.14	0.049	0.01	4.7	3.9	0.58	391	0.86	0.01	4.15
RMR-18-SS-51		42.9	8.73	17.20	0.07	0.61	0.15	0.083	0.01	2.1	4.8	0.27	228	0.51	<0.01	4.45
RMR-18-SS-52		84.9	7.38	14.90	0.08	0.67	0.12	0.072	0.01	3.4	5.3	0.73	378	0.62	0.01	2.79
RMR-18-SS-53		105.5	5.82	12.50	0.13	0.76	0.13	0.060	0.01	3.9	3.9	0.84	414	0.61	0.01	3.46
RMR-18-SS-54		82.9	6.33	13.30	0.10	0.67	0.15	0.060	0.01	4.2	3.5	0.64	547	0.67	0.01	4.03
RMR-18-SS-55		89.0	8.39	17.10	0.08	1.01	0.24	0.075	0.01	3.0	3.7	0.47	423	0.58	0.01	5.14
RMR-18-SS-56		102.5	5.62	14.20	0.11	0.50	0.13	0.060	0.01	4.7	4.8	0.79	685	2.90	0.01	3.80
RMR-18-SS-57		99.7	5.92	12.85	0.11	0.71	0.05	0.053	0.01	4.1	3.3	0.70	562	0.47	0.01	2.79
RMR-18-SS-58		107.0	7.16	14.10	0.11	0.76	0.13	0.057	0.01	4.6	3.6	0.59	426	0.63	0.01	4.01
RMR-18-SS-59		153.5	5.03	11.35	0.16	0.51	0.07	0.044	0.01	5.9	3.3	0.73	535	0.57	0.01	3.16
RMR-18-SS-60		183.0	4.58	10.50	0.19	0.55	0.08	0.038	0.01	4.7	2.8	0.68	392	0.43	0.01	3.38
RMR-18-SS-61		333	5.24	10.05	0.15	0.35	0.22	0.049	0.01	5.3	2.8	0.57	470	1.05	0.01	3.43
RMR-18-SS-62		150.0	7.13	14.60	0.09	0.74	0.13	0.054	0.01	3.9	4.9	0.47	351	0.59	0.02	3.90
RMR-18-SS-63		45.4	6.83	13.95	0.07	0.26	0.21	0.056	0.02	2.8	3.9	0.31	1280	0.88	0.01	4.36
RMR-18-SS-64		183.5	7.07	16.35	0.07	0.68	0.12	0.075	0.04	5.2	7.8	0.93	992	0.86	0.02	2.28
RMR-18-SS-65		156.5	9.04	18.35	0.07	0.62	0.18	0.080	0.01	2.5	4.1	0.27	252	1.45	0.01	5.47
RMR-18-SS-66		102.0	6.90	14.35	0.07	0.70	0.13	0.054	0.01	4.3	4.7	0.60	325	0.54	0.01	3.26
RMR-18-SS-67		93.9	8.04	15.35	0.11	0.81	0.11	0.068	0.01	3.0	6.2	0.45	256	0.67	0.01	3.99
RMR-18-SS-68		159.0	7.57	14.90	0.11	0.65	0.18	0.054	0.01	2.8	4.3	0.41	397	0.64	0.01	4.25
RMR-18-SS-69		351	8.96	15.85	0.10	1.09	0.22	0.098	0.01	3.2	9.7	0.66	361	0.98	0.01	3.90
RMR-18-SS-70		131.5	8.02	14.75	0.10	0.88	0.13	0.069	0.01	2.6	5.2	0.43	306	0.57	0.01	4.95
RMR-18-SS-71		114.0	7.20	14.10	0.12	0.32	0.09	0.066	0.01	3.6	4.4	0.64	457	0.90	0.01	3.71
RMR-18-SS-72		136.5	8.02	14.75	0.09	0.40	0.25	0.072	0.02	2.6	10.4	0.50	833	1.71	0.01	5.17
RMR-18-SS-73		95.3	6.84	13.55	0.11	0.14	0.15	0.059	0.02	5.6	4.9	0.40	4860	1.35	0.01	3.45
RMR-18-SS-74		114.0	6.27	11.20	0.14	0.31	0.23	0.058	0.01	5.4	4.4	0.43	258	1.11	0.01	3.76
RMR-18-SS-75		81.4	6.68	13.60	0.13	0.15	0.17	0.057	0.01	6.3	4.4	0.48	5360	1.01	0.01	2.70
RMR-18-SS-76		236	8.75	17.35	0.12	0.34	0.20	0.067	0.01	4.8	3.6	0.29	312	1.56	0.01	4.35
RMR-18-SS-77		96.3	5.58	12.25	0.09	0.20	0.24	0.039	0.02	2.1	2.2	0.18	486	0.80	0.01	4.23
RMR-18-SS-78		47.4	8.64	16.10	0.11	0.88	0.24	0.062	0.01	3.4	3.9	0.30	161	0.63	0.02	4.40
RMR-18-SS-79		77.0	8.15	17.00	0.09	0.78	0.19	0.101	0.01	3.3	3.2	0.20	113	0.92	0.01	5.95
RMR-18-SS-80		103.0	7.06	17.35	0.09	0.28	0.11	0.045	0.02	2.9	4.2	0.31	200	1.17	0.01	4.94



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 3 - C
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
RMR-18-SS-41		25.8	510	1.4	1.1	<0.001	0.03	0.07	15.3	1.3	0.5	12.7	0.08	0.02	0.7	0.460
RMR-18-SS-42		28.1	570	1.5	3.0	<0.001	<0.01	0.06	12.1	0.3	0.6	30.1	<0.01	0.01	0.7	0.427
RMR-18-SS-43		22.2	330	6.0	1.4	<0.001	0.02	0.14	7.7	0.4	1.1	18.9	0.06	0.01	0.5	0.736
RMR-18-SS-44		20.9	380	8.0	2.6	<0.001	0.03	0.17	7.9	0.4	1.2	16.8	0.07	0.02	0.5	0.767
RMR-18-SS-45		24.4	370	4.7	1.3	<0.001	0.02	0.10	13.2	0.6	1.2	13.0	0.08	0.01	0.6	0.874
RMR-18-SS-46		29.2	350	2.3	1.3	<0.001	0.02	0.08	14.6	0.3	1.0	15.8	0.10	0.01	0.7	0.854
RMR-18-SS-47		19.7	400	4.9	1.2	<0.001	0.03	0.14	11.4	0.4	1.5	13.5	0.13	0.01	0.6	1.025
RMR-18-SS-48		25.9	310	3.4	1.3	<0.001	0.03	0.09	10.0	0.4	1.0	20.0	0.05	0.01	0.5	0.710
RMR-18-SS-49		37.7	410	2.1	1.5	<0.001	0.03	0.07	18.9	1.0	0.9	14.4	0.06	0.03	0.9	0.708
RMR-18-SS-50		33.8	360	2.1	1.3	<0.001	0.03	0.08	13.8	0.9	0.8	17.5	0.07	0.03	0.6	0.663
RMR-18-SS-51		17.6	390	2.9	1.4	<0.001	0.02	0.10	8.5	0.4	1.2	12.1	0.12	0.02	0.6	0.912
RMR-18-SS-52		34.9	630	2.4	2.6	<0.001	0.01	0.09	19.1	0.6	1.0	15.5	0.06	0.02	0.8	0.818
RMR-18-SS-53		38.4	550	1.7	1.2	<0.001	0.02	0.06	18.5	0.9	0.8	18.9	0.07	0.02	0.7	0.672
RMR-18-SS-54		31.2	440	5.1	1.2	<0.001	0.02	0.10	16.4	0.7	0.9	17.8	0.09	0.02	0.6	0.719
RMR-18-SS-55		27.2	600	8.3	1.8	<0.001	0.03	0.20	15.1	0.6	1.3	14.6	0.09	0.02	0.7	0.933
RMR-18-SS-56		37.0	560	5.0	1.4	<0.001	0.02	0.09	15.2	0.7	1.4	20.7	0.07	0.01	0.6	0.731
RMR-18-SS-57		27.8	590	4.0	1.9	<0.001	0.01	0.09	14.2	0.4	1.0	18.8	0.07	0.01	0.6	0.702
RMR-18-SS-58		29.3	500	4.7	1.4	<0.001	0.02	0.09	19.4	0.9	1.0	16.5	0.08	0.02	0.7	0.850
RMR-18-SS-59		31.1	520	1.9	0.6	<0.001	0.01	0.06	15.6	1.0	0.8	24.8	0.05	0.01	0.5	0.628
RMR-18-SS-60		25.5	560	2.1	0.7	<0.001	0.01	0.06	13.0	0.8	0.8	21.6	0.04	0.01	0.5	0.588
RMR-18-SS-61		23.7	690	5.9	0.6	0.001	0.04	0.05	13.5	1.5	0.6	19.1	0.07	0.02	0.4	0.529
RMR-18-SS-62		24.4	600	7.8	1.6	<0.001	0.02	0.13	11.5	0.7	1.0	24.0	0.05	0.02	0.7	0.750
RMR-18-SS-63		17.3	350	6.4	1.7	<0.001	0.03	0.16	6.6	0.3	1.2	22.6	0.04	0.01	0.4	0.839
RMR-18-SS-64		30.2	610	9.0	3.5	<0.001	0.01	0.17	14.4	0.6	1.0	38.0	0.02	0.03	0.9	0.591
RMR-18-SS-65		14.7	350	5.6	0.9	<0.001	0.03	0.17	8.3	0.6	1.2	14.3	0.12	0.02	0.7	0.900
RMR-18-SS-66		30.3	400	2.6	1.6	<0.001	0.01	0.09	16.9	0.6	1.0	19.0	0.04	0.02	0.7	0.801
RMR-18-SS-67		30.2	520	2.8	1.1	0.001	0.03	0.10	16.9	0.4	1.1	14.6	0.08	0.01	0.8	0.801
RMR-18-SS-68		19.9	540	8.6	1.0	<0.001	0.04	0.21	11.4	0.5	1.2	22.4	0.08	0.02	0.7	0.848
RMR-18-SS-69		35.8	400	7.0	4.1	<0.001	0.06	0.11	22.0	1.0	0.8	15.8	0.02	0.03	0.9	0.541
RMR-18-SS-70		26.9	490	3.1	2.0	<0.001	0.04	0.09	14.7	0.6	1.0	16.5	0.08	0.01	0.7	0.742
RMR-18-SS-71		27.0	390	3.0	1.0	<0.001	0.03	0.07	10.6	0.4	1.0	20.3	0.08	0.01	0.4	0.802
RMR-18-SS-72		22.6	470	10.9	3.1	<0.001	0.06	0.23	10.6	0.7	1.0	20.9	0.08	0.02	0.6	0.606
RMR-18-SS-73		28.7	520	14.0	1.5	<0.001	0.06	0.15	8.9	0.4	1.0	25.4	0.03	0.03	0.4	0.627
RMR-18-SS-74		30.3	510	1.9	0.6	<0.001	0.06	0.06	15.9	1.1	0.7	14.4	0.11	0.02	0.3	0.519
RMR-18-SS-75		37.1	340	3.7	1.0	0.001	0.05	0.10	11.8	0.6	0.8	21.8	0.06	0.03	0.4	0.576
RMR-18-SS-76		19.8	950	9.9	1.1	<0.001	0.06	0.12	9.8	0.5	1.2	15.7	0.10	0.01	0.7	0.817
RMR-18-SS-77		10.7	780	9.9	1.4	<0.001	0.08	0.21	4.9	0.5	1.0	25.3	0.08	0.01	0.4	0.524
RMR-18-SS-78		18.2	1070	2.9	0.8	<0.001	0.03	0.09	10.3	0.4	1.1	15.9	0.05	0.02	0.9	0.909
RMR-18-SS-79		11.9	600	2.0	0.9	<0.001	0.06	0.09	13.7	0.9	0.8	11.6	0.04	0.02	0.8	0.584
RMR-18-SS-80		17.2	710	3.9	1.6	0.001	0.05	0.11	6.8	0.4	1.2	37.9	0.08	0.01	0.4	0.652



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 3 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.02	0.05	1	0.05	0.05	2	0.5
RMR-18-SS-41		<0.02	0.32	171	0.08	8.10	39	22.4
RMR-18-SS-42		0.02	0.25	169	0.06	9.36	47	15.9
RMR-18-SS-43		<0.02	0.23	340	<0.05	7.76	39	13.4
RMR-18-SS-44		0.02	0.23	332	<0.05	8.30	38	18.5
RMR-18-SS-45		<0.02	0.24	362	<0.05	8.16	42	26.9
RMR-18-SS-46		<0.02	0.27	317	<0.05	9.29	70	31.7
RMR-18-SS-47		<0.02	0.25	406	<0.05	6.86	44	27.2
RMR-18-SS-48		0.02	0.27	279	<0.05	9.69	46	16.0
RMR-18-SS-49		<0.02	0.38	259	0.07	15.85	60	40.4
RMR-18-SS-50		<0.02	0.38	226	0.06	15.00	44	18.7
RMR-18-SS-51		<0.02	0.22	346	<0.05	4.34	47	24.1
RMR-18-SS-52		0.02	0.29	290	<0.05	10.25	60	28.6
RMR-18-SS-53		<0.02	0.30	222	0.05	12.85	47	32.9
RMR-18-SS-54		<0.02	0.30	269	<0.05	13.25	44	26.7
RMR-18-SS-55		<0.02	0.25	351	<0.05	8.26	54	43.2
RMR-18-SS-56		0.02	0.29	241	<0.05	12.65	55	22.6
RMR-18-SS-57		<0.02	0.22	249	<0.05	12.40	49	31.3
RMR-18-SS-58		<0.02	0.28	309	<0.05	14.45	44	34.2
RMR-18-SS-59		<0.02	0.24	226	0.05	18.75	43	22.9
RMR-18-SS-60		<0.02	0.24	202	0.06	14.40	36	23.8
RMR-18-SS-61		<0.02	0.48	171	0.08	17.50	39	16.5
RMR-18-SS-62		<0.02	0.26	271	<0.05	12.65	56	27.3
RMR-18-SS-63		0.02	0.25	317	<0.05	5.85	54	12.0
RMR-18-SS-64		0.03	0.34	232	0.05	12.95	65	25.6
RMR-18-SS-65		<0.02	0.29	342	<0.05	4.78	38	23.9
RMR-18-SS-66		<0.02	0.26	299	<0.05	12.25	49	27.3
RMR-18-SS-67		0.02	0.28	305	<0.05	10.20	53	33.0
RMR-18-SS-68		0.02	0.24	321	<0.05	7.82	37	24.3
RMR-18-SS-69		0.03	0.25	254	0.05	13.15	67	39.1
RMR-18-SS-70		<0.02	0.26	302	<0.05	8.07	56	35.8
RMR-18-SS-71		<0.02	0.29	295	<0.05	13.70	44	15.0
RMR-18-SS-72		0.02	0.27	326	0.08	6.06	61	16.0
RMR-18-SS-73		0.04	0.27	250	<0.05	13.70	66	6.7
RMR-18-SS-74		0.02	0.59	186	0.11	19.65	44	13.6
RMR-18-SS-75		0.03	0.31	246	<0.05	16.80	77	7.1
RMR-18-SS-76		0.02	0.45	299	<0.05	13.00	40	13.3
RMR-18-SS-77		0.02	0.22	243	<0.05	3.90	29	7.9
RMR-18-SS-78		<0.02	0.26	292	<0.05	11.55	30	31.5
RMR-18-SS-79		<0.02	0.31	218	0.05	9.00	30	27.3
RMR-18-SS-80		<0.02	0.22	267	<0.05	7.27	38	10.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 4 - A
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
RMR-18-SS-81		0.30	0.18	4.55	1.3	<0.02	<10	20	0.36	0.06	0.55	0.18	6.14	8.8	60	0.24
RMR-18-SS-82		0.44	0.02	3.40	1.3	<0.02	<10	20	0.35	0.02	1.49	0.12	14.95	17.3	28	0.16
RMR-18-SS-83		0.26	0.14	5.87	1.1	<0.02	<10	30	0.71	0.08	1.01	0.15	27.0	153.0	81	0.51
RMR-18-SS-84		0.30	0.15	4.91	0.7	<0.02	<10	20	0.49	0.07	1.11	0.30	8.92	14.3	76	0.48
RMR-18-SS-85		0.30	0.09	4.32	0.6	<0.02	<10	10	0.33	0.06	1.17	0.28	5.19	8.8	86	0.40
RMR-18-SS-86		0.36	0.13	8.23	1.4	<0.02	10	20	0.62	0.02	1.38	0.12	13.45	20.1	66	0.22
RMR-18-SS-87		0.42	0.18	4.55	0.6	<0.02	<10	10	0.43	0.08	1.19	0.25	6.26	9.7	94	0.30
RMR-18-SS-88		0.32	0.11	5.65	0.6	<0.02	<10	20	0.53	0.08	1.47	0.21	14.30	21.0	102	0.34
RMR-18-SS-89		0.46	0.14	3.88	0.8	<0.02	<10	30	0.37	0.11	0.62	0.24	10.65	19.7	79	0.39
RMR-18-SS-90		0.42	0.05	8.11	2.6	<0.02	<10	20	0.52	0.02	0.78	0.16	13.55	13.7	66	0.18
RMR-18-SS-91		0.48	0.06	7.85	2.0	<0.02	<10	10	0.56	0.02	0.94	0.17	16.15	14.7	83	0.31
RMR-18-SS-92		0.40	0.09	7.76	1.4	<0.02	<10	20	0.62	0.04	0.72	0.22	14.20	12.9	86	0.40
RMR-18-SS-93		0.48	0.05	2.65	1.5	<0.02	<10	40	0.30	0.02	0.98	0.14	13.55	11.6	28	0.24
RMR-18-SS-94		0.48	0.05	5.81	1.6	<0.02	<10	20	0.41	0.04	0.92	0.14	13.55	13.8	67	0.34
RMR-18-SS-95		0.32	0.04	4.22	1.2	<0.02	<10	20	0.28	0.06	0.87	0.24	5.87	9.9	72	0.34
RMR-18-SS-96		0.22	0.12	3.15	1.2	<0.02	<10	20	0.26	0.08	0.64	0.24	6.90	9.8	57	0.30
RMR-18-SS-97		0.50	0.04	3.38	1.5	<0.02	<10	30	0.36	0.03	1.79	0.17	16.05	19.1	34	0.24
RMR-18-SS-98		0.46	0.05	3.15	1.9	<0.02	<10	30	0.36	0.03	1.92	0.19	14.05	21.9	36	0.28
RMR-18-SS-99		0.52	0.26	5.33	0.4	<0.02	<10	10	0.44	0.06	0.94	0.42	7.18	10.1	77	0.62
RMR-18-SS-100		0.52	0.15	3.38	0.7	<0.02	<10	20	0.68	0.10	1.07	0.41	10.90	53.6	50	0.62
RMR-18-SS-101		0.54	0.08	4.83	0.6	<0.02	<10	10	0.39	0.06	0.84	0.21	10.85	9.5	119	0.37
RMR-18-SS-102		0.44	0.16	5.01	1.0	<0.02	<10	10	0.59	0.07	0.78	0.21	14.35	13.8	83	0.37
RMR-18-SS-103		0.46	0.11	4.54	1.1	<0.02	<10	10	0.47	0.04	1.16	0.22	12.70	15.1	73	0.21
RMR-18-SS-104		0.56	0.03	3.10	0.8	<0.02	10	10	0.40	0.01	2.08	0.11	13.55	19.5	28	0.12
RMR-18-SS-105		0.68	0.05	4.34	1.1	<0.02	10	20	0.43	0.01	2.03	0.10	19.25	23.4	34	0.14
RMR-18-SS-106		0.60	0.03	3.09	0.8	0.05	10	10	0.38	0.01	2.09	0.11	15.05	18.1	27	0.12
RMR-18-SS-107		0.48	0.06	4.67	3.9	<0.02	<10	30	0.40	0.04	1.55	0.26	15.90	19.1	55	0.34
RMR-18-SS-108		0.28	0.10	2.70	2.2	<0.02	<10	30	0.29	0.07	0.61	0.28	12.00	7.8	37	0.24
RMR-18-SS-109		0.56	0.06	5.81	8.1	<0.02	<10	40	0.56	0.02	1.49	0.28	27.3	31.3	54	0.35
RMR-18-SS-110		0.38	0.14	4.65	3.7	<0.02	<10	30	0.71	0.07	1.00	0.38	32.8	24.2	69	0.53
RMR-18-SS-111		0.50	0.06	5.71	3.1	<0.02	<10	30	0.56	0.07	0.76	0.27	12.10	14.4	79	0.56
RMR-18-SS-112		0.30	0.19	4.00	1.4	<0.02	<10	40	0.48	0.08	1.00	0.39	16.90	15.4	64	0.47
RMR-18-SS-113		0.46	0.09	2.97	1.3	<0.02	<10	40	0.40	0.10	0.83	0.28	9.95	23.2	70	0.75
RMR-18-SS-114		0.24	0.17	4.15	1.7	<0.02	10	60	0.51	0.05	0.88	0.61	15.15	144.5	33	0.21
RMR-18-SS-115		0.40	0.18	7.62	3.6	<0.02	<10	20	0.65	0.03	0.80	0.36	17.00	12.1	74	0.31
RMR-18-SS-116		0.34	0.10	5.93	5.2	<0.02	<10	30	0.55	0.05	1.06	0.33	19.10	18.6	71	0.37
RMR-18-SS-117		0.46	0.12	6.49	2.6	<0.02	<10	30	0.55	0.07	0.54	0.21	10.75	9.0	79	0.50
RMR-18-SS-118		0.36	0.18	3.77	2.2	<0.02	<10	30	0.29	0.08	1.14	0.22	8.49	17.5	64	0.58
RMR-18-SS-119		0.48	0.07	4.75	3.6	<0.02	<10	40	0.42	0.05	1.18	0.30	12.20	22.3	60	0.38
RMR-18-SS-120		0.40	0.11	4.85	3.9	<0.02	<10	60	0.48	0.04	1.16	0.37	13.35	33.2	50	0.39



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 4 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.02	0.05	1	0.05	0.05	2	0.5
RMR-18-SS-81		<0.02	0.19	333	<0.05	5.49	31	25.8
RMR-18-SS-82		0.02	0.25	170	0.07	13.30	37	20.8
RMR-18-SS-83		0.04	0.58	253	0.05	16.60	65	11.9
RMR-18-SS-84		0.02	0.28	349	<0.05	8.01	48	24.4
RMR-18-SS-85		<0.02	0.21	365	<0.05	4.21	33	38.5
RMR-18-SS-86		<0.02	0.36	214	0.05	11.55	46	37.3
RMR-18-SS-87		<0.02	0.22	414	<0.05	4.56	35	29.3
RMR-18-SS-88		<0.02	0.25	454	<0.05	9.83	45	47.4
RMR-18-SS-89		<0.02	0.27	303	<0.05	6.84	44	14.6
RMR-18-SS-90		<0.02	0.52	112	0.09	13.60	31	18.7
RMR-18-SS-91		0.02	0.40	179	0.07	12.95	38	42.9
RMR-18-SS-92		0.02	0.38	200	0.05	11.95	46	31.9
RMR-18-SS-93		0.03	0.36	149	0.07	9.74	29	5.8
RMR-18-SS-94		0.02	0.37	214	0.06	12.10	38	25.8
RMR-18-SS-95		<0.02	0.22	278	<0.05	4.42	37	18.3
RMR-18-SS-96		0.02	0.25	270	<0.05	4.79	31	14.8
RMR-18-SS-97		0.02	0.35	174	0.13	12.35	52	22.1
RMR-18-SS-98		0.03	0.28	184	0.10	12.30	57	18.4
RMR-18-SS-99		<0.02	0.27	335	<0.05	5.64	38	30.6
RMR-18-SS-100		0.02	0.25	326	<0.05	10.70	57	11.5
RMR-18-SS-101		<0.02	0.26	448	<0.05	9.39	34	35.6
RMR-18-SS-102		<0.02	0.28	332	<0.05	9.84	46	36.1
RMR-18-SS-103		<0.02	0.30	324	<0.05	10.05	41	34.9
RMR-18-SS-104		<0.02	0.18	202	<0.05	15.35	45	27.0
RMR-18-SS-105		<0.02	0.24	181	0.05	17.00	47	29.9
RMR-18-SS-106		<0.02	0.20	201	<0.05	14.65	39	25.4
RMR-18-SS-107		0.04	0.49	190	0.13	12.45	52	16.0
RMR-18-SS-108		<0.02	0.23	149	0.08	8.80	24	6.5
RMR-18-SS-109		0.03	1.20	158	0.14	18.95	66	12.8
RMR-18-SS-110		0.03	0.62	232	0.09	14.10	65	12.2
RMR-18-SS-111		0.03	0.57	229	0.08	8.00	78	13.6
RMR-18-SS-112		0.08	0.55	157	0.06	9.68	80	5.5
RMR-18-SS-113		0.03	0.35	320	<0.05	7.33	78	6.6
RMR-18-SS-114		0.05	0.21	59	0.06	9.98	81	1.0
RMR-18-SS-115		0.02	0.76	151	0.08	13.35	43	14.8
RMR-18-SS-116		0.03	0.59	214	0.11	15.20	51	28.7
RMR-18-SS-117		0.03	0.63	233	0.09	10.80	41	15.2
RMR-18-SS-118		0.03	0.36	256	0.15	6.21	40	10.1
RMR-18-SS-119		0.03	0.43	196	0.13	9.62	56	9.5
RMR-18-SS-120		0.04	0.47	156	0.08	12.15	62	8.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 5 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5
RMR-18-SS-121		0.03	0.51	240	0.06	19.85	53	28.0
RMR-18-SS-122		0.02	0.50	221	0.06	14.60	55	34.8
RMR-18-SS-123		0.02	0.55	275	0.06	13.60	60	11.7
RMR-18-SS-124		0.02	0.44	255	0.05	13.55	47	21.6
RMR-18-SS-125		0.02	0.66	259	0.05	16.00	52	30.3
RMR-18-SS-126		0.02	0.33	142	0.07	10.25	43	13.5
RMR-18-SS-127		0.02	0.41	212	0.07	9.43	51	10.9
RMR-18-SS-128		<0.02	0.35	488	<0.05	3.74	27	24.7
RMR-18-SS-129		0.02	0.38	193	0.05	8.41	44	13.4
RMR-18-SS-130		0.02	0.43	266	<0.05	10.60	44	20.7
RMR-18-SS-131		0.02	0.41	257	<0.05	18.40	66	25.0
RMR-18-SS-132		0.02	0.36	220	0.05	9.70	54	16.5
RMR-18-SS-133		0.02	0.43	314	<0.05	12.50	52	38.0
RMR-18-SS-134		0.02	0.56	191	0.06	11.50	44	26.8
RMR-18-SS-135		0.02	0.43	437	<0.05	9.67	38	23.8
RMR-18-SS-136		0.02	0.25	158	0.06	3.96	32	6.1
RMR-18-SS-137		0.10	0.55	146	0.07	13.75	113	5.3
RMR-18-SS-138		0.05	0.47	184	0.06	10.55	78	7.4
RMR-18-SS-139		0.02	0.39	147	0.07	16.45	51	16.2
RMR-18-SS-140		<0.02	0.34	215	0.06	7.54	50	22.1
RMR-18-SS-141		<0.02	0.42	215	0.05	10.95	77	18.2
RMR-18-SS-142		<0.02	0.52	188	0.05	21.2	49	17.4
RMR-18-SS-143		<0.02	0.32	189	0.05	14.85	40	23.4
RMR-18-SS-144		0.02	0.18	147	0.10	9.61	95	6.7
RMR-18-SS-145		0.02	0.25	188	0.08	16.50	56	15.7
RMR-18-SS-146		0.02	0.21	182	0.07	15.95	51	14.6
RMR-18-SS-147		0.07	0.27	179	0.07	12.85	97	7.8
RMR-18-SS-148		<0.02	0.11	112	0.08	19.40	57	6.4
RMR-18-SS-149		<0.02	0.17	199	0.05	16.00	53	27.4
RMR-18-SS-150		0.03	0.43	308	<0.05	13.60	46	10.0
RMR-18-SS-151		<0.02	0.42	307	<0.05	8.77	36	31.7
RMR-18-SS-152		<0.02	0.30	249	<0.05	14.70	38	32.5
RMR-18-SS-153		<0.02	0.28	432	<0.05	11.70	27	41.9
RMR-18-SS-154		<0.02	0.24	480	<0.05	4.85	24	29.4
RMR-18-SS-155		0.03	0.57	216	0.07	10.85	41	20.0
RMR-18-SS-156		0.02	0.57	203	0.08	6.68	36	20.8
RMR-18-SS-157		0.02	0.62	130	0.08	10.90	36	10.3
RMR-18-SS-158		<0.02	0.73	103	0.08	12.05	26	23.6
RMR-18-SS-159		<0.02	0.57	184	0.07	6.77	24	40.3
RMR-18-SS-160		0.02	0.58	204	0.11	14.85	41	31.6



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 6 - B
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
RMR-18-SS-161		50.5	6.40	15.80	0.09	0.39	0.28	0.056	0.01	3.8	4.1	0.18	96	1.09	0.01	4.73
RMR-18-SS-162		79.4	7.66	17.10	0.10	0.39	0.28	0.081	0.01	3.6	4.4	0.24	166	1.14	0.01	4.70
RMR-18-SS-163		65.9	6.00	13.35	0.11	0.83	0.27	0.067	0.01	3.0	5.9	0.38	461	0.83	0.01	4.05
RMR-18-SS-164		51.2	7.89	21.3	0.09	0.38	0.23	0.072	0.01	3.0	5.8	0.29	177	1.28	0.01	5.36
RMR-18-SS-165		202	3.95	10.60	0.12	0.21	0.13	0.032	0.03	4.3	4.8	0.70	500	1.11	0.05	2.68
RMR-18-SS-166		53.4	6.90	16.00	0.09	0.44	0.31	0.057	0.01	3.6	5.8	0.24	179	2.28	0.01	4.77
RMR-18-SS-167		69.8	3.71	6.44	0.11	0.83	0.54	0.050	<0.01	6.1	1.7	0.04	36	1.38	<0.01	1.79
RMR-18-SS-168		109.0	3.56	9.64	0.15	0.24	0.07	0.027	0.02	5.2	4.8	0.66	556	1.47	0.03	2.46
RMR-18-SS-169		80.0	4.95	12.00	0.10	0.47	0.16	0.047	0.01	4.0	5.9	0.37	162	1.15	0.01	3.86
RMR-18-SS-170		72.8	5.15	13.00	0.09	0.42	0.17	0.050	0.01	3.8	4.8	0.36	158	1.06	0.01	4.06
RMR-18-SS-171		62.7	5.17	13.60	0.09	0.33	0.24	0.044	0.01	4.2	4.5	0.28	180	1.38	0.01	3.94
RMR-18-SS-172		94.1	7.43	17.35	0.10	0.99	0.31	0.067	0.01	3.7	4.1	0.22	126	1.97	0.01	4.75
RMR-18-SS-173		67.0	7.77	13.75	0.10	0.51	0.34	0.079	0.01	3.7	2.3	0.14	104	1.04	<0.01	3.60
RMR-18-SS-174		88.8	5.61	14.15	0.10	0.49	0.26	0.053	0.01	3.3	3.5	0.33	163	0.91	0.01	4.00
RMR-18-SS-175		39.8	6.54	16.35	0.08	0.50	0.28	0.064	0.01	4.8	5.6	0.18	160	1.50	0.01	4.64
RMR-18-SS-176		31.1	4.59	12.50	0.08	0.22	0.31	0.042	0.02	2.0	2.0	0.19	288	1.12	0.01	4.28
RMR-18-SS-177		66.3	5.83	14.60	0.09	0.42	0.23	0.052	0.01	3.0	5.1	0.29	213	1.64	0.01	4.72
RMR-18-SS-178		74.1	4.65	14.35	0.10	0.21	0.10	0.056	0.02	5.3	7.6	0.64	470	3.18	0.02	3.35
RMR-18-SS-179		123.0	4.69	12.15	0.12	0.30	0.19	0.046	0.02	4.3	5.8	0.63	246	1.26	0.02	3.51
RMR-18-SS-180		163.5	4.47	10.20	0.16	0.43	0.15	0.046	0.01	9.5	3.9	0.50	588	1.33	0.01	3.22
RMR-18-SS-181		64.2	6.12	20.9	0.09	0.38	0.21	0.066	0.01	4.1	4.5	0.27	151	1.10	0.01	5.42
RMR-18-SS-182		117.0	4.82	11.65	0.13	0.51	0.20	0.050	0.01	4.2	4.7	0.63	408	1.11	0.01	3.67
RMR-18-SS-183		67.6	6.57	15.15	0.09	1.34	0.10	0.061	0.01	3.9	7.6	0.47	259	1.15	0.01	4.25
RMR-18-SS-184		119.0	6.21	14.80	0.11	0.34	0.13	0.063	0.01	6.4	6.6	0.45	1220	1.03	0.01	4.31
RMR-18-SS-185		106.0	6.62	14.95	0.11	0.91	0.19	0.059	0.01	5.2	6.0	0.71	354	0.81	0.01	4.85
RMR-18-SS-186		102.0	7.81	17.45	0.10	1.01	0.27	0.066	0.01	4.8	6.0	0.49	310	1.10	0.01	5.08
RMR-18-SS-187		107.0	5.55	14.65	0.10	0.38	0.21	0.057	0.01	4.3	5.3	0.59	445	1.38	0.01	4.79
RMR-18-SS-188		80.9	9.29	22.5	0.11	0.54	0.23	0.068	0.01	3.4	4.8	0.26	218	0.72	0.01	5.98
RMR-18-SS-189		86.7	7.22	15.40	0.11	0.71	0.26	0.063	0.01	2.8	3.8	0.35	175	0.92	0.01	5.56
RMR-18-SS-190		73.6	7.36	16.95	0.10	0.71	0.23	0.059	0.01	2.7	3.1	0.27	137	0.62	0.01	5.86
RMR-18-SS-191		101.5	8.37	18.20	0.09	1.02	0.35	0.072	0.01	3.0	3.5	0.28	164	0.89	<0.01	6.32
RMR-18-SS-192		117.5	7.54	15.65	0.10	0.77	0.16	0.062	0.01	4.5	5.7	0.47	200	0.81	0.01	5.84
RMR-18-SS-193		131.5	8.36	18.00	0.10	0.90	0.18	0.068	0.01	3.6	7.1	0.48	260	0.98	0.01	4.94
RMR-18-SS-194		71.4	7.56	16.50	0.09	0.54	0.24	0.074	0.01	2.6	6.0	0.33	184	0.68	0.01	5.75
RMR-18-SS-195		118.5	7.29	14.85	0.10	0.84	0.28	0.064	0.01	3.8	4.3	0.39	518	0.69	0.01	4.92
RMR-18-SS-196		150.0	7.02	15.05	0.12	0.76	0.24	0.063	0.01	3.5	5.1	0.67	431	0.53	0.02	4.35
RMR-18-SS-197		99.8	9.29	20.9	0.09	0.82	0.29	0.072	0.01	2.9	4.7	0.30	377	0.68	0.01	4.26
RMR-18-SS-198		61.2	14.30	45.7	0.09	0.40	0.11	0.092	0.01	1.8	3.9	0.31	184	2.67	0.01	2.99
RMR-18-SS-199		117.0	8.75	18.05	0.11	1.21	0.32	0.104	0.01	3.2	4.6	0.30	135	1.09	0.01	5.39
RMR-18-SS-200		101.5	6.95	16.25	0.09	1.53	0.18	0.091	0.01	2.2	4.0	0.35	174	0.59	0.01	5.11



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 6 - C
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
RMR-18-SS-161		12.9	380	3.2	0.5	<0.001	0.05	0.21	9.7	1.3	1.0	14.3	0.07	0.03	0.7	0.530
RMR-18-SS-162		14.1	580	3.2	0.8	<0.001	0.06	0.15	11.0	2.0	0.8	13.5	0.08	0.04	0.8	0.484
RMR-18-SS-163		26.4	480	2.5	0.9	<0.001	0.05	0.17	17.3	1.4	0.7	13.3	0.01	0.03	0.9	0.463
RMR-18-SS-164		18.9	410	4.1	1.1	<0.001	0.04	0.20	7.7	1.1	1.1	24.3	0.08	0.01	0.7	0.664
RMR-18-SS-165		31.0	860	5.3	1.5	<0.001	0.04	0.14	9.8	0.8	0.6	49.7	0.01	0.01	0.5	0.337
RMR-18-SS-166		19.3	560	3.2	1.1	<0.001	0.05	0.24	10.5	1.7	0.9	15.8	0.03	0.04	0.9	0.530
RMR-18-SS-167		6.6	970	1.3	0.4	0.001	0.09	0.11	20.7	4.0	0.2	4.6	<0.01	0.05	1.2	0.135
RMR-18-SS-168		30.1	680	2.6	1.3	0.001	0.02	0.16	9.5	0.4	0.6	33.2	0.02	0.02	0.6	0.374
RMR-18-SS-169		27.3	540	2.7	1.5	<0.001	0.04	0.15	13.0	1.4	0.8	17.3	0.01	0.02	1.0	0.411
RMR-18-SS-170		21.8	440	2.6	1.0	<0.001	0.04	0.16	14.3	1.2	0.7	16.1	0.01	0.03	0.8	0.469
RMR-18-SS-171		16.9	490	3.1	1.2	<0.001	0.05	0.17	10.4	1.4	0.8	22.2	0.02	0.01	0.7	0.416
RMR-18-SS-172		12.9	470	2.8	1.0	<0.001	0.07	0.18	21.2	1.7	0.7	9.2	0.01	0.03	1.2	0.496
RMR-18-SS-173		11.7	720	2.3	0.7	<0.001	0.07	0.11	11.1	2.3	0.5	14.0	0.05	0.02	0.7	0.366
RMR-18-SS-174		17.1	350	2.6	0.7	<0.001	0.04	0.14	10.5	1.4	0.7	15.6	0.05	0.02	0.9	0.465
RMR-18-SS-175		14.9	510	4.5	1.1	0.001	0.06	0.19	15.0	1.5	1.1	12.1	0.02	0.03	1.7	0.549
RMR-18-SS-176		13.8	500	10.1	1.0	<0.001	0.10	0.34	4.5	1.2	1.0	18.5	0.07	0.02	0.4	0.497
RMR-18-SS-177		22.1	380	4.1	1.0	0.001	0.05	0.23	10.5	1.5	0.9	14.6	0.07	0.03	0.7	0.528
RMR-18-SS-178		42.9	630	3.8	1.7	0.005	0.03	0.21	13.2	0.8	0.8	24.4	0.01	0.02	0.6	0.504
RMR-18-SS-179		35.4	530	3.5	1.1	<0.001	0.05	0.18	12.4	1.6	0.7	31.3	0.03	0.02	0.6	0.407
RMR-18-SS-180		30.3	790	1.6	0.8	0.002	0.05	0.23	22.8	1.0	0.5	17.2	<0.01	0.02	0.6	0.407
RMR-18-SS-181		16.3	420	4.0	0.9	0.001	0.05	0.19	11.1	1.0	1.3	12.5	0.09	<0.01	0.5	0.763
RMR-18-SS-182		34.3	530	2.4	1.0	<0.001	0.05	0.17	16.1	1.2	0.6	16.3	0.01	0.02	0.7	0.462
RMR-18-SS-183		42.5	370	4.0	1.5	<0.001	0.04	0.21	20.6	0.8	1.0	13.1	0.01	0.02	1.2	0.650
RMR-18-SS-184		37.0	460	4.1	1.2	0.002	0.03	0.17	15.0	0.6	1.0	22.9	0.02	0.01	0.7	0.584
RMR-18-SS-185		42.0	510	2.8	1.0	<0.001	0.03	0.15	22.6	0.8	1.0	17.4	0.02	0.02	0.9	0.706
RMR-18-SS-186		32.3	520	3.4	1.0	<0.001	0.05	0.20	22.8	1.5	1.2	13.2	0.05	0.02	0.9	0.802
RMR-18-SS-187		31.3	570	2.2	1.0	0.001	0.04	0.10	13.6	1.0	1.0	19.3	0.05	0.02	0.5	0.708
RMR-18-SS-188		21.0	370	3.0	0.6	0.001	0.05	0.13	11.6	0.8	1.5	12.1	0.12	0.02	0.5	0.965
RMR-18-SS-189		24.0	320	2.7	0.7	<0.001	0.05	0.12	14.7	0.9	1.0	14.6	0.11	0.02	0.6	0.760
RMR-18-SS-190		18.0	340	2.8	0.7	<0.001	0.05	0.10	13.3	0.9	1.1	11.8	0.11	0.01	0.6	0.754
RMR-18-SS-191		17.8	390	3.2	0.5	<0.001	0.06	0.12	15.4	1.4	1.1	10.6	0.10	0.02	0.7	0.828
RMR-18-SS-192		24.8	280	3.6	0.7	<0.001	0.04	0.08	17.7	1.3	1.0	15.0	0.06	0.03	0.7	0.908
RMR-18-SS-193		32.1	310	13.3	1.0	<0.001	0.03	0.11	19.6	0.9	1.3	15.6	0.05	0.03	0.8	0.878
RMR-18-SS-194		19.0	430	3.8	0.6	<0.001	0.05	0.11	9.0	0.8	1.2	12.0	0.12	0.03	0.7	0.836
RMR-18-SS-195		21.7	450	4.4	0.6	<0.001	0.06	0.11	17.4	1.1	1.1	13.9	0.03	0.03	0.7	0.781
RMR-18-SS-196		28.5	540	2.5	0.9	<0.001	0.04	0.08	15.6	1.0	0.9	26.7	0.01	0.02	0.7	0.751
RMR-18-SS-197		19.3	490	9.0	0.9	<0.001	0.05	0.18	14.5	1.0	1.5	12.4	0.06	0.02	0.7	0.972
RMR-18-SS-198		16.0	320	8.1	1.1	<0.001	0.03	0.16	4.8	0.3	2.3	11.5	0.07	0.01	0.5	1.560
RMR-18-SS-199		17.3	500	2.5	0.5	<0.001	0.06	1.74	21.5	1.7	0.9	10.5	0.02	0.03	0.9	0.657
RMR-18-SS-200		17.6	350	2.4	0.6	<0.001	0.06	0.47	25.8	1.2	1.0	10.3	0.01	0.02	1.0	0.730



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 6 - D
 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 11-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5
RMR-18-SS-161		<0.02	0.49	244	0.07	7.74	21	14.6
RMR-18-SS-162		<0.02	0.52	207	0.09	8.71	30	15.3
RMR-18-SS-163		0.02	0.53	174	0.08	9.10	45	29.9
RMR-18-SS-164		0.02	0.45	257	0.08	7.25	35	13.6
RMR-18-SS-165		0.02	0.45	129	0.16	12.25	38	8.1
RMR-18-SS-166		0.03	0.67	242	0.11	8.30	36	18.0
RMR-18-SS-167		<0.02	0.89	74	0.07	15.10	14	27.8
RMR-18-SS-168		0.04	0.59	140	0.09	12.50	51	10.5
RMR-18-SS-169		0.02	0.59	164	0.14	9.91	47	20.7
RMR-18-SS-170		0.02	0.54	183	0.12	9.99	35	19.4
RMR-18-SS-171		0.02	0.79	179	0.09	10.75	31	12.2
RMR-18-SS-172		<0.02	0.59	228	0.09	16.50	30	35.6
RMR-18-SS-173		0.03	0.54	140	0.06	8.92	25	18.4
RMR-18-SS-174		<0.02	0.49	186	0.07	7.55	30	19.7
RMR-18-SS-175		0.02	0.68	231	0.10	11.00	41	21.1
RMR-18-SS-176		0.02	0.39	217	0.06	3.09	32	9.7
RMR-18-SS-177		0.03	0.59	216	0.10	8.82	45	18.3
RMR-18-SS-178		0.03	1.14	192	0.10	16.65	97	10.3
RMR-18-SS-179		0.03	0.72	162	0.09	10.80	41	13.4
RMR-18-SS-180		0.03	9.93	160	0.13	31.4	40	19.5
RMR-18-SS-181		0.02	0.66	263	<0.05	9.70	35	16.9
RMR-18-SS-182		0.03	0.70	152	0.07	12.35	53	23.0
RMR-18-SS-183		0.03	0.62	262	0.05	12.35	117	50.5
RMR-18-SS-184		0.03	1.18	201	0.05	20.1	84	17.4
RMR-18-SS-185		0.02	0.53	262	0.07	17.55	67	39.2
RMR-18-SS-186		0.02	0.54	313	<0.05	14.90	59	40.5
RMR-18-SS-187		0.02	0.48	204	0.05	12.25	54	18.8
RMR-18-SS-188		0.02	0.37	403	<0.05	10.40	36	23.0
RMR-18-SS-189		<0.02	0.28	289	<0.05	9.08	33	29.8
RMR-18-SS-190		<0.02	0.29	297	<0.05	6.81	30	29.6
RMR-18-SS-191		<0.02	0.33	303	<0.05	7.39	27	37.5
RMR-18-SS-192		<0.02	0.34	291	0.05	15.30	36	32.8
RMR-18-SS-193		<0.02	0.36	320	<0.05	11.15	51	39.1
RMR-18-SS-194		<0.02	0.42	277	<0.05	5.10	32	25.0
RMR-18-SS-195		<0.02	0.38	276	<0.05	11.20	31	33.5
RMR-18-SS-196		<0.02	0.30	252	<0.05	10.55	35	31.8
RMR-18-SS-197		<0.02	0.27	386	<0.05	6.83	29	32.5
RMR-18-SS-198		<0.02	0.22	649	<0.05	2.37	35	15.6
RMR-18-SS-199		<0.02	0.33	234	<0.05	10.40	26	45.8
RMR-18-SS-200		<0.02	0.42	240	<0.05	5.85	26	56.6



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
PO BOX 131
GRINDROD BC V0E 1Y0

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 11-MAY-2018
Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089965

CERTIFICATE COMMENTS					
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p>				
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table><tr><td>LOG-22</td><td>ME-MS41</td><td>SCR-41</td><td>WEI-21</td></tr></table>	LOG-22	ME-MS41	SCR-41	WEI-21
LOG-22	ME-MS41	SCR-41	WEI-21		



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
PO BOX 131
GRINDROD BC V0E 1Y0

Page: 1
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 14-MAY-2018
This copy reported on
7-MAR-2019
Account: RCHRIV

VA18089960

Project: RED METAL RIDGE

This report is for 147 Soil samples submitted to our lab in Vancouver, BC, Canada on 19-APR-2018.

The following have access to data associated with this certificate:

C. LYNES

DON MACINTYRE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS41	Ultra Trace Aqua Regia ICP-MS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 2 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte Units LOD	Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
RMR-18-SS-201		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
RMR-18-SS-202		0.46	0.05	8.03	2.0	<0.02	<10	10	0.48	0.04	0.52	0.13	16.00	11.5	97	0.33
RMR-18-SS-203		0.48	0.06	6.70	1.3	<0.02	<10	10	0.42	0.04	0.53	0.19	12.65	8.7	98	0.25
RMR-18-SS-204		0.42	0.07	2.91	0.8	<0.02	<10	20	0.19	0.05	1.18	0.16	5.74	18.0	43	0.33
RMR-18-SS-205		0.40	0.10	4.08	1.1	<0.02	<10	10	0.37	0.08	0.46	0.22	6.46	7.1	82	0.25
RMR-18-SS-206		0.42	0.08	4.98	1.1	<0.02	<10	10	0.42	0.09	0.41	0.35	6.40	7.6	126	0.50
RMR-18-SS-207		0.36	0.06	6.34	1.2	<0.02	<10	10	0.49	0.05	0.53	0.17	14.25	8.2	81	0.33
RMR-18-SS-208		0.58	0.07	3.38	1.1	<0.02	<10	20	0.33	0.04	1.14	0.17	7.36	18.8	53	0.33
RMR-18-SS-209		0.40	0.08	5.14	1.9	<0.02	<10	20	0.51	0.03	1.10	0.26	11.75	16.7	60	0.30
RMR-18-SS-210		0.50	0.08	5.67	2.7	<0.02	<10	20	0.54	0.07	0.85	0.27	16.95	20.4	94	0.33
RMR-18-SS-211		0.44	0.13	9.09	3.0	<0.02	<10	20	0.64	0.04	0.50	0.22	20.7	14.0	98	0.29
RMR-18-SS-212		0.60	0.08	4.12	0.9	<0.02	<10	10	0.36	0.06	0.99	0.44	9.02	11.8	64	0.19
RMR-18-SS-213		0.52	0.09	3.19	0.7	<0.02	<10	10	0.35	0.09	0.75	0.18	6.06	9.3	64	0.34
RMR-18-SS-214		0.38	0.07	3.80	1.3	<0.02	<10	20	0.48	0.04	1.20	0.21	14.85	32.5	49	0.33
RMR-18-SS-215		0.40	0.22	5.46	1.4	<0.02	<10	20	0.56	0.05	0.93	0.16	24.2	16.9	64	0.28
RMR-18-SS-216		0.38	0.10	6.12	1.3	<0.02	<10	10	0.42	0.05	0.49	0.18	6.58	5.1	104	0.20
RMR-18-SS-217		0.42	0.06	8.80	1.7	<0.02	<10	10	0.54	0.02	0.72	0.11	14.00	11.0	84	0.18
RMR-18-SS-218		0.30	0.07	2.64	1.2	<0.02	<10	10	0.41	0.05	1.22	0.16	8.97	18.8	40	0.19
RMR-18-SS-219		0.36	0.11	3.25	1.4	<0.02	<10	40	0.50	0.03	1.43	0.19	16.65	54.6	26	0.18
RMR-18-SS-220		0.60	0.11	3.79	0.8	<0.02	<10	20	0.48	0.08	0.78	0.15	8.95	14.7	71	0.37
RMR-18-SS-221		0.52	0.18	5.21	1.8	<0.02	<10	30	0.66	0.08	0.81	0.30	13.65	24.6	72	0.55
RMR-18-SS-222		0.16	0.08	0.39	1.5	<0.02	<10	10	<0.05	0.16	0.17	0.09	1.90	2.6	11	0.08
RMR-18-SS-223		0.42	0.09	4.48	0.8	<0.02	<10	20	0.51	0.10	0.80	0.19	12.00	17.5	76	0.45
RMR-18-SS-224		0.44	0.07	7.09	1.1	<0.02	<10	10	0.58	0.05	0.74	0.21	13.65	15.9	93	0.38
RMR-18-SS-225		0.36	0.04	4.61	1.7	<0.02	<10	10	0.43	0.03	1.38	0.15	11.75	17.0	39	0.14
RMR-18-SS-226		0.40	0.12	3.41	1.4	<0.02	<10	10	0.45	0.14	0.98	0.21	8.65	15.1	39	0.28
RMR-18-SS-227		0.26	0.12	4.08	1.1	<0.02	<10	10	0.39	0.06	1.15	0.22	11.20	11.2	70	0.26
RMR-18-SS-228		0.48	0.18	5.33	0.9	<0.02	<10	10	0.52	0.06	1.02	0.28	13.30	13.4	85	0.35
RMR-18-SS-229		0.30	0.44	3.70	1.3	<0.02	<10	10	0.38	0.08	0.47	0.30	8.65	12.9	80	0.48
RMR-18-SS-230		0.42	0.09	5.65	1.2	<0.02	<10	20	0.65	0.06	0.92	0.27	14.75	15.0	78	0.52
RMR-18-SS-231		0.28	0.09	5.90	1.6	<0.02	<10	10	0.45	0.05	0.94	0.21	12.80	11.2	71	0.29
RMR-18-SS-232		0.36	0.06	4.24	1.3	<0.02	<10	10	0.43	0.04	1.37	0.16	19.50	22.6	55	0.30
RMR-18-SS-233		0.36	0.05	5.79	1.0	<0.02	<10	10	0.58	0.04	1.67	0.16	9.69	20.2	66	0.27
RMR-18-SS-234		0.42	0.06	6.73	1.3	<0.02	<10	10	0.48	0.05	0.77	0.14	12.75	12.9	95	0.26
RMR-18-SS-235		0.40	0.27	7.34	3.3	<0.02	<10	10	0.57	0.04	0.95	0.23	18.85	19.7	93	0.26
RMR-18-SS-236		0.52	0.14	5.63	1.1	<0.02	<10	10	0.55	0.04	1.55	0.13	22.0	20.1	75	0.26
RMR-18-SS-237		0.46	0.10	3.21	0.9	<0.02	<10	10	0.33	0.09	0.74	0.13	9.68	9.1	63	0.22
RMR-18-SS-238		0.40	0.12	4.28	1.3	<0.02	<10	20	0.65	0.06	1.52	0.21	13.40	17.1	71	0.47
RMR-18-SS-239		0.50	0.08	5.84	1.2	<0.02	<10	20	0.65	0.06	1.77	0.19	18.60	24.6	64	0.51
RMR-18-SS-240		0.34	0.12	5.75	6.1	<0.02	<10	10	0.71	0.04	1.84	0.18	28.3	29.8	69	0.28
RMR-18-SS-241		0.22	0.13	3.81	2.3	<0.02	<10	10	0.41	0.10	0.61	0.17	15.25	10.2	59	0.48



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
PO BOX 131
GRINDROD BC V0E 1Y0

Page: 2 - B
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 14-MAY-2018
Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
RMR-18-SS-201		129.0	5.85	12.20	0.11	1.33	0.20	0.047	0.01	3.3	4.8	0.52	227	0.82	0.01	5.13
RMR-18-SS-202		169.5	6.21	12.30	0.10	0.80	0.24	0.057	0.01	3.8	3.9	0.39	286	0.83	0.01	5.19
RMR-18-SS-203		136.0	5.34	14.05	0.11	0.42	0.12	0.030	0.03	1.9	4.9	0.91	414	0.59	0.05	4.05
RMR-18-SS-204		79.7	7.45	15.75	0.07	0.41	0.25	0.077	0.01	2.5	3.7	0.32	169	1.22	0.01	6.88
RMR-18-SS-205		166.0	11.10	22.6	0.09	0.79	0.21	0.090	0.01	2.3	5.9	0.32	167	0.67	0.01	5.81
RMR-18-SS-206		142.0	5.68	12.10	0.08	0.63	0.27	0.058	0.01	5.3	4.4	0.38	207	1.44	0.01	5.49
RMR-18-SS-207		155.5	4.97	10.95	0.10	0.48	0.13	0.038	0.01	2.5	5.4	0.98	428	0.42	0.01	4.31
RMR-18-SS-208		114.0	5.20	11.10	0.10	0.41	0.21	0.042	0.01	3.6	4.3	0.66	433	0.61	0.01	4.12
RMR-18-SS-209		110.0	7.21	14.70	0.09	0.57	0.23	0.061	0.01	3.8	5.2	0.51	551	1.02	0.01	4.89
RMR-18-SS-210		111.5	5.48	9.72	0.10	0.72	0.44	0.055	0.01	6.6	3.5	0.28	370	1.06	0.01	4.23
RMR-18-SS-211		315	7.76	15.00	0.09	0.69	0.15	0.057	0.01	3.0	3.0	0.46	289	0.44	0.01	4.00
RMR-18-SS-212		62.1	7.89	15.15	0.08	0.58	0.18	0.055	0.01	2.2	4.2	0.28	314	0.52	0.01	3.84
RMR-18-SS-213		133.5	5.40	10.15	0.10	0.28	0.11	0.045	0.02	4.4	5.5	0.72	987	1.26	0.02	3.57
RMR-18-SS-214		125.0	6.54	12.20	0.10	0.63	0.22	0.055	0.01	3.8	3.7	0.47	716	0.82	0.01	4.57
RMR-18-SS-215		83.5	10.65	21.9	0.09	0.88	0.36	0.113	0.01	2.5	2.7	0.17	103	0.62	0.01	6.75
RMR-18-SS-216		206	6.09	8.94	0.12	1.50	0.14	0.059	0.01	2.8	3.0	0.47	254	0.83	0.01	3.76
RMR-18-SS-217		113.0	5.79	11.75	0.10	0.44	0.07	0.034	0.02	3.1	4.2	0.71	484	0.62	0.01	3.23
RMR-18-SS-218		147.5	3.43	6.85	0.14	0.18	0.19	0.030	0.02	4.6	2.9	0.61	2740	0.37	0.02	2.31
RMR-18-SS-219		74.9	9.27	15.90	0.09	0.64	0.10	0.056	0.01	2.0	4.8	0.35	313	0.47	0.01	4.11
RMR-18-SS-220		205	7.65	13.45	0.09	0.89	0.16	0.067	0.01	3.4	6.7	0.45	394	0.77	0.01	4.73
RMR-18-SS-221		14.8	1.99	3.94	0.05	0.05	0.22	0.016	0.03	0.9	0.3	0.04	81	0.27	0.01	2.13
RMR-18-SS-222		106.0	8.59	20.8	0.08	0.55	0.15	0.074	0.01	3.4	6.2	0.49	557	0.80	0.01	4.35
RMR-18-SS-223		95.3	8.03	14.05	0.09	1.16	0.27	0.076	0.01	3.0	4.7	0.39	236	0.58	0.01	4.36
RMR-18-SS-224		122.5	5.48	11.25	0.13	0.58	0.13	0.041	0.01	3.8	3.5	0.74	519	0.40	0.01	3.73
RMR-18-SS-225		185.5	9.79	23.1	0.11	0.64	0.12	0.075	0.02	2.8	5.1	0.55	536	0.87	0.01	3.02
RMR-18-SS-226		75.2	7.47	17.10	0.10	0.93	0.19	0.070	0.01	2.8	3.2	0.43	212	0.47	0.01	4.88
RMR-18-SS-227		105.0	7.64	15.20	0.10	0.94	0.20	0.070	0.01	3.4	4.8	0.40	422	0.55	0.01	4.45
RMR-18-SS-228		135.5	9.83	22.9	0.08	0.79	0.21	0.085	0.02	1.8	6.5	0.46	275	0.47	0.01	2.92
RMR-18-SS-229		88.8	7.27	12.40	0.08	0.27	0.15	0.085	0.01	4.2	10.7	0.61	241	0.61	0.01	4.13
RMR-18-SS-230		100.5	6.74	11.15	0.12	0.68	0.15	0.065	0.01	3.5	3.7	0.45	607	0.66	0.01	4.43
RMR-18-SS-231		84.7	6.56	14.10	0.15	0.55	0.11	0.059	0.02	3.3	5.4	1.02	620	0.42	0.01	3.67
RMR-18-SS-232		64.0	5.53	14.10	0.12	0.53	0.16	0.084	0.01	2.9	5.6	0.66	543	0.92	0.01	4.38
RMR-18-SS-233		72.1	7.76	15.00	0.11	0.81	0.24	0.082	0.01	3.1	5.3	0.58	304	0.54	0.01	5.06
RMR-18-SS-234		157.0	10.15	15.70	0.17	1.14	0.18	0.131	0.01	3.4	5.6	0.93	350	0.71	0.01	4.52
RMR-18-SS-235		115.5	7.64	15.50	0.15	0.92	0.14	0.066	0.01	5.4	3.7	0.61	550	0.53	0.01	4.09
RMR-18-SS-236		70.2	10.55	24.4	0.11	0.71	0.16	0.067	0.01	3.1	3.0	0.22	248	0.49	0.01	3.24
RMR-18-SS-237		85.7	8.56	17.80	0.12	0.31	0.18	0.092	0.01	3.6	7.1	0.60	375	0.89	0.01	4.98
RMR-18-SS-238		212	8.56	18.15	0.13	0.69	0.12	0.076	0.02	3.6	7.3	0.54	765	0.91	0.01	3.31
RMR-18-SS-239		141.5	5.26	14.10	0.13	0.41	0.12	0.059	0.01	6.5	10.9	0.62	320	1.79	0.01	4.58
RMR-18-SS-240		85.4	7.86	15.40	0.11	0.49	0.28	0.067	0.02	3.5	6.7	0.30	199	1.22	0.01	5.75



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 2 - C
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.005	
RMR-18-SS-201		25.3	490	1.6	0.7	0.001	0.06	0.07	25.4	2.3	0.8	12.5	0.01	0.07	1.0	0.655
RMR-18-SS-202		17.6	430	2.1	0.5	<0.001	0.07	0.09	17.2	2.3	0.8	12.2	0.03	0.04	0.7	0.646
RMR-18-SS-203		36.4	290	9.5	1.2	<0.001	0.04	0.13	5.5	0.9	0.8	81.6	0.06	0.02	0.3	0.591
RMR-18-SS-204		14.9	340	3.5	0.6	<0.001	0.06	0.10	7.4	1.6	1.1	11.1	0.10	0.03	0.4	0.827
RMR-18-SS-205		15.7	380	2.8	0.7	<0.001	0.06	0.11	12.9	1.4	1.3	9.5	0.13	0.05	0.7	1.070
RMR-18-SS-206		16.9	440	1.9	0.7	<0.001	0.06	0.06	16.9	2.1	0.8	10.0	0.08	0.05	0.6	0.698
RMR-18-SS-207		31.3	320	2.8	0.9	<0.001	0.03	0.05	9.2	1.1	0.8	22.8	0.04	0.01	0.3	0.708
RMR-18-SS-208		32.2	480	2.1	0.9	<0.001	0.05	0.06	13.6	1.2	0.7	15.8	0.06	0.04	0.4	0.537
RMR-18-SS-209		34.9	440	3.0	1.0	<0.001	0.05	0.13	16.9	1.7	1.0	14.8	0.05	0.06	0.7	0.744
RMR-18-SS-210		25.3	670	1.4	1.0	<0.001	0.08	0.09	26.1	2.8	0.6	11.1	0.01	0.08	0.6	0.463
RMR-18-SS-211		19.3	380	3.5	0.6	<0.001	0.03	0.09	13.3	1.0	1.1	11.4	0.10	0.03	0.6	0.791
RMR-18-SS-212		15.9	530	4.2	1.3	<0.001	0.03	0.13	9.0	0.6	1.4	17.9	0.07	0.02	0.6	0.964
RMR-18-SS-213		33.0	610	4.9	1.3	<0.001	0.06	0.12	11.0	1.0	0.7	20.4	0.06	0.03	0.4	0.524
RMR-18-SS-214		25.1	530	4.5	1.3	<0.001	0.05	0.11	18.9	1.0	1.0	14.4	0.04	0.03	0.6	0.665
RMR-18-SS-215		10.5	430	2.0	0.5	<0.001	0.07	0.11	13.6	1.3	1.0	6.8	0.13	0.03	0.6	0.778
RMR-18-SS-216		19.4	600	1.0	0.5	0.001	0.06	0.07	22.7	1.9	0.5	9.6	0.01	0.06	1.0	0.472
RMR-18-SS-217		25.5	490	9.3	1.2	<0.001	0.03	0.13	7.3	0.6	1.0	25.4	0.04	0.02	0.5	0.633
RMR-18-SS-218		30.0	600	6.7	0.8	<0.001	0.08	0.08	9.8	1.1	0.5	23.9	0.02	0.02	0.2	0.346
RMR-18-SS-219		25.6	390	3.8	1.6	<0.001	0.03	0.23	9.1	0.9	1.4	13.4	0.08	0.03	0.6	1.125
RMR-18-SS-220		32.8	490	2.9	2.0	<0.001	0.04	0.09	16.0	1.3	1.0	12.7	0.05	0.03	0.9	0.732
RMR-18-SS-221		4.1	560	21.0	1.0	<0.001	0.07	0.53	1.5	0.4	0.8	6.1	0.01	0.01	<0.2	0.238
RMR-18-SS-222		23.9	540	5.5	1.4	<0.001	0.04	0.15	15.6	0.9	1.4	13.0	0.07	0.02	0.7	0.850
RMR-18-SS-223		25.6	440	2.8	1.0	<0.001	0.05	0.10	20.9	1.2	1.0	9.4	0.02	0.04	0.9	0.685
RMR-18-SS-224		24.1	700	3.0	0.7	<0.001	0.03	0.08	12.5	0.9	0.8	16.6	0.02	0.03	0.6	0.578
RMR-18-SS-225		18.8	430	14.7	0.9	<0.001	0.03	0.28	11.2	0.8	1.7	13.0	0.06	0.02	0.6	0.948
RMR-18-SS-226		19.6	380	3.9	0.8	<0.001	0.05	0.11	13.9	1.0	1.1	11.4	0.08	0.03	0.6	0.833
RMR-18-SS-227		22.8	420	3.2	1.1	<0.001	0.04	0.10	18.6	0.9	1.1	11.4	0.06	0.03	0.7	0.767
RMR-18-SS-228		20.5	170	6.0	1.7	0.001	0.03	0.24	14.0	0.7	1.9	8.9	0.11	0.02	0.7	0.892
RMR-18-SS-229		28.4	340	7.0	2.1	<0.001	0.04	0.12	16.5	1.2	0.8	16.3	0.08	0.04	0.5	0.468
RMR-18-SS-230		19.1	480	8.2	1.0	<0.001	0.06	0.16	13.3	1.4	0.8	10.7	0.06	0.04	0.5	0.593
RMR-18-SS-231		30.1	380	3.9	1.4	<0.001	0.03	0.19	17.8	0.8	1.0	17.4	0.04	0.02	0.5	0.650
RMR-18-SS-232		28.3	450	2.5	0.8	<0.001	0.04	0.08	15.2	1.1	0.8	15.3	0.13	0.02	0.5	0.613
RMR-18-SS-233		23.1	430	4.1	0.8	<0.001	0.06	0.12	17.8	1.1	0.9	17.1	0.10	0.05	0.7	0.627
RMR-18-SS-234		29.5	450	5.7	0.7	<0.001	0.06	0.14	22.1	1.7	0.8	9.2	0.04	0.04	0.9	0.615
RMR-18-SS-235		28.4	600	2.7	0.9	<0.001	0.04	0.12	19.1	1.1	1.0	13.2	0.04	0.04	0.7	0.814
RMR-18-SS-236		12.5	360	3.6	0.5	0.001	0.02	0.15	10.4	0.6	1.8	17.0	0.11	0.01	0.6	1.210
RMR-18-SS-237		30.6	430	2.8	1.1	<0.001	0.04	0.08	10.9	1.1	1.1	18.7	0.09	0.04	0.5	0.784
RMR-18-SS-238		28.5	360	2.9	1.5	0.001	0.04	0.11	14.0	0.7	1.1	26.1	0.02	0.03	0.6	0.738
RMR-18-SS-239		44.4	360	2.0	0.7	0.006	0.05	0.09	17.2	1.8	0.9	24.1	0.06	0.03	0.5	0.677
RMR-18-SS-240		14.9	510	7.2	1.5	<0.001	0.07	0.22	9.7	0.9	1.1	10.7	0.08	0.04	0.5	0.696

***** See Appendix Page for comments regarding this certificate *****



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 2 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.02	0.05	1	0.05	0.05	2	0.5
RMR-18-SS-201		<0.02	0.42	193	0.06	15.90	30	53.7
RMR-18-SS-202		<0.02	0.33	219	<0.05	10.95	24	34.1
RMR-18-SS-203		<0.02	0.18	219	<0.05	5.22	41	17.2
RMR-18-SS-204		<0.02	0.37	294	<0.05	4.26	28	18.1
RMR-18-SS-205		<0.02	0.29	390	<0.05	6.57	31	31.5
RMR-18-SS-206		<0.02	0.44	213	0.07	12.90	30	28.2
RMR-18-SS-207		<0.02	0.25	192	0.05	8.00	45	20.4
RMR-18-SS-208		<0.02	0.33	188	0.06	11.50	49	19.6
RMR-18-SS-209		0.02	0.40	297	0.05	12.65	54	26.8
RMR-18-SS-210		0.02	0.54	181	0.08	20.4	41	30.4
RMR-18-SS-211		<0.02	0.26	322	<0.05	8.21	28	28.7
RMR-18-SS-212		<0.02	0.24	356	<0.05	4.57	32	23.2
RMR-18-SS-213		0.02	0.30	204	0.08	12.35	65	13.8
RMR-18-SS-214		<0.02	0.28	276	<0.05	12.55	41	27.1
RMR-18-SS-215		<0.02	0.27	326	<0.05	5.74	25	34.3
RMR-18-SS-216		<0.02	0.39	190	0.06	12.10	29	56.3
RMR-18-SS-217		<0.02	0.20	251	<0.05	8.19	42	17.3
RMR-18-SS-218		0.02	0.19	132	0.06	12.40	59	7.7
RMR-18-SS-219		<0.02	0.19	426	<0.05	6.58	42	24.6
RMR-18-SS-220		0.02	0.30	294	0.06	9.64	69	36.1
RMR-18-SS-221		<0.02	0.05	128	<0.05	0.91	15	2.1
RMR-18-SS-222		0.02	0.31	379	<0.05	8.63	49	23.5
RMR-18-SS-223		<0.02	0.32	300	<0.05	10.15	39	45.1
RMR-18-SS-224		<0.02	0.25	238	<0.05	12.25	36	26.9
RMR-18-SS-225		<0.02	0.24	442	<0.05	7.80	45	24.3
RMR-18-SS-226		<0.02	0.25	339	<0.05	7.57	30	35.7
RMR-18-SS-227		<0.02	0.23	333	<0.05	10.70	34	35.1
RMR-18-SS-228		<0.02	0.21	527	<0.05	3.94	26	28.6
RMR-18-SS-229		<0.02	0.24	246	<0.05	12.80	55	13.3
RMR-18-SS-230		<0.02	0.23	230	<0.05	10.50	37	27.3
RMR-18-SS-231		<0.02	0.21	285	<0.05	11.60	44	23.8
RMR-18-SS-232		<0.02	0.31	219	0.06	10.30	51	23.5
RMR-18-SS-233		<0.02	0.32	274	<0.05	9.19	37	32.1
RMR-18-SS-234		<0.02	0.28	284	0.05	12.15	54	42.8
RMR-18-SS-235		<0.02	0.26	348	0.05	16.55	44	39.8
RMR-18-SS-236		<0.02	0.24	555	<0.05	6.88	23	26.1
RMR-18-SS-237		<0.02	0.36	272	0.06	13.70	58	14.3
RMR-18-SS-238		<0.02	0.24	327	<0.05	12.55	63	28.4
RMR-18-SS-239		<0.02	0.79	240	0.15	18.20	79	18.8
RMR-18-SS-240		<0.02	0.33	299	<0.05	7.79	37	19.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 3 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
RMR-18-SS-241		0.34	0.05	4.12	1.4	<0.02	10	10	0.50	0.03	1.69	0.14	17.75	21.0	53	0.23
RMR-18-SS-242		0.44	0.09	5.98	0.9	<0.02	<10	10	0.57	0.05	1.08	0.16	14.30	16.5	90	0.47
RMR-18-SS-243		0.28	0.07	3.38	0.8	<0.02	<10	10	0.38	0.09	1.09	0.15	7.17	14.8	63	0.28
RMR-18-SS-244		0.30	0.10	4.36	1.6	<0.02	10	30	0.51	0.03	1.82	0.22	20.7	76.1	48	0.35
RMR-18-SS-245		0.46	0.11	6.21	1.3	<0.02	<10	10	0.50	0.05	0.84	0.12	12.95	12.7	81	0.31
RMR-18-SS-246		0.50	0.07	5.93	6.4	<0.02	10	10	0.67	0.02	2.05	0.11	52.6	37.2	74	0.30
RMR-18-SS-247		0.34	0.12	5.40	1.1	<0.02	<10	10	0.49	0.06	1.09	0.16	13.95	20.0	78	0.40
RMR-18-SS-248		0.38	0.14	6.39	1.0	<0.02	<10	30	0.65	0.05	0.96	0.20	14.55	54.0	71	0.36
RMR-18-SS-249		0.24	4.82	3.87	0.9	0.24	<10	10	0.33	0.06	1.10	0.16	8.70	17.4	64	0.37
RMR-18-SS-250		0.54	0.11	5.86	1.4	<0.02	<10	10	0.51	0.04	0.87	0.26	15.70	14.2	86	0.36
RMR-18-SS-251		0.44	0.21	3.85	1.3	<0.02	<10	10	0.37	0.06	0.95	0.31	8.39	19.0	72	0.34
RMR-18-SS-252		0.48	0.20	6.06	1.0	<0.02	<10	10	0.60	0.14	0.52	0.65	14.00	13.4	95	0.44
RMR-18-SS-253		0.24	0.12	3.48	1.2	<0.02	<10	10	0.34	0.11	0.68	0.28	8.71	15.4	59	0.34
RMR-18-SS-254		0.44	0.12	5.70	0.8	<0.02	<10	30	0.54	0.05	1.03	0.15	14.70	21.6	102	0.42
RMR-18-SS-255		0.42	0.03	6.82	0.7	<0.02	<10	10	0.63	0.05	1.37	0.10	11.15	15.9	91	0.31
RMR-18-SS-256		0.48	0.08	5.18	0.9	<0.02	<10	20	0.49	0.05	1.02	0.11	10.45	15.3	114	0.31
RMR-18-SS-257		0.38	0.12	4.95	0.9	<0.02	<10	20	0.64	0.07	1.35	0.23	20.6	19.1	107	0.69
RMR-18-SS-258		0.50	0.14	6.76	1.1	<0.02	<10	30	0.76	0.09	0.95	0.19	49.5	41.3	120	0.71
RMR-18-SS-259		0.44	0.19	6.00	0.6	<0.02	<10	20	0.68	0.09	1.18	0.24	33.7	29.3	114	0.29
RMR-18-SS-260		0.56	0.02	3.75	0.7	<0.02	10	10	0.44	0.01	2.52	0.08	14.65	22.2	35	0.17
RMR-18-SS-261		0.62	0.12	3.57	1.0	<0.02	<10	30	0.41	0.06	1.13	0.13	9.63	20.6	87	0.35
RMR-18-SS-262		0.50	0.11	7.37	1.2	<0.02	10	10	0.62	0.05	1.13	0.12	17.20	11.3	94	0.39
RMR-18-SS-263		0.44	0.07	6.92	1.1	<0.02	10	10	0.57	0.04	1.27	0.09	15.05	12.4	87	0.38
RMR-18-SS-264		0.46	0.14	5.92	0.8	<0.02	<10	10	0.53	0.05	1.11	0.20	7.97	11.9	127	0.31
RMR-18-SS-265		0.60	0.03	4.33	0.8	<0.02	10	10	0.49	0.01	2.25	0.09	18.30	21.2	43	0.18
RMR-18-SS-266		0.26	0.08	2.87	0.8	<0.02	<10	10	0.32	0.11	0.79	0.16	6.98	13.7	109	0.25
RMR-18-SS-267		0.42	0.04	8.09	1.2	<0.02	<10	10	0.53	0.06	0.92	0.12	11.15	10.7	149	0.24
RMR-18-SS-268		0.44	0.10	5.11	1.2	<0.02	<10	10	0.52	0.05	1.83	0.12	11.45	26.8	76	0.30
RMR-18-SS-269		0.50	0.06	7.24	1.3	<0.02	<10	10	0.52	0.04	1.10	0.10	8.95	14.5	126	0.23
RMR-18-SS-270		0.54	0.03	8.55	1.4	<0.02	<10	10	0.69	0.02	1.55	0.07	25.8	26.7	83	0.20
RMR-18-SS-271		0.42	0.20	4.68	0.9	<0.02	10	20	0.60	0.05	1.85	0.18	16.70	19.6	89	0.37
RMR-18-SS-272		0.36	0.13	5.14	0.9	<0.02	<10	20	0.72	0.07	1.59	0.15	18.80	27.6	104	0.54
RMR-18-SS-273		0.50	0.14	6.23	0.9	<0.02	<10	10	0.56	0.10	0.73	0.11	10.85	8.8	110	0.23
RMR-18-SS-274		0.42	0.24	4.74	1.5	<0.02	<10	20	0.46	0.04	1.90	0.18	13.40	49.6	54	0.47
RMR-18-SS-275		0.40	0.08	7.02	1.3	<0.02	<10	10	0.49	0.04	0.91	0.11	13.00	14.1	92	0.19
RMR-18-SS-276		0.46	0.09	4.96	0.7	<0.02	<10	20	0.61	0.08	0.96	0.16	12.90	25.5	87	0.39
RMR-18-SS-277		0.26	0.11	2.30	1.3	<0.02	<10	30	0.27	0.07	0.91	0.17	8.88	9.0	34	0.14
RMR-18-SS-278		0.34	0.07	3.60	0.6	<0.02	<10	10	0.26	0.12	0.62	0.15	5.94	11.3	91	0.25
RMR-18-SS-279		0.32	0.23	5.22	1.4	<0.02	<10	20	0.47	0.07	0.78	0.27	6.95	15.4	70	0.28
RMR-18-SS-280		0.20	0.22	1.24	0.7	<0.02	<10	10	0.15	0.03	0.88	0.18	3.92	6.7	23	0.11

***** See Appendix Page for comments regarding this certificate *****



ALS Canada Ltd.

2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 3 - C
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
RMR-18-SS-241		33.8	450	2.8	0.9	<0.001	0.03	0.09	13.2	0.8	0.8	19.5	0.06	0.02	0.4	0.648
RMR-18-SS-242		23.7	510	4.5	1.2	<0.001	0.06	0.10	14.6	0.8	1.1	12.8	0.11	0.03	0.7	0.900
RMR-18-SS-243		20.5	440	9.2	1.1	<0.001	0.03	0.18	8.5	0.5	1.5	14.0	0.09	0.02	0.5	0.985
RMR-18-SS-244		44.5	560	6.6	0.8	0.001	0.06	0.15	14.7	1.1	0.8	27.2	0.05	0.05	0.4	0.494
RMR-18-SS-245		19.1	510	2.4	0.9	<0.001	0.06	0.09	13.7	1.4	1.0	12.3	0.11	0.04	0.6	0.772
RMR-18-SS-246		41.0	690	1.6	0.6	0.001	0.04	0.10	22.1	1.8	0.8	27.3	0.02	0.05	0.6	0.545
RMR-18-SS-247		22.8	420	5.4	1.2	<0.001	0.05	0.11	13.5	1.1	1.1	12.7	0.11	0.02	0.8	0.841
RMR-18-SS-248		30.4	580	2.8	0.8	<0.001	0.06	0.07	15.3	1.6	0.8	22.7	0.04	0.05	0.4	0.581
RMR-18-SS-249		22.0	480	5.7	1.0	<0.001	0.06	0.15	10.2	1.0	1.2	17.1	0.12	0.03	0.5	0.841
RMR-18-SS-250		27.6	360	2.1	0.8	<0.001	0.04	0.09	20.8	1.3	0.8	12.9	0.08	0.04	0.8	0.665
RMR-18-SS-251		21.5	420	9.1	0.8	<0.001	0.03	0.32	9.7	0.7	1.2	18.0	0.08	0.02	0.6	0.786
RMR-18-SS-252		19.7	430	26.5	1.0	0.001	0.04	0.14	17.9	0.9	1.4	11.5	0.04	0.06	0.8	0.975
RMR-18-SS-253		18.8	560	14.0	1.3	<0.001	0.05	0.36	8.5	0.7	1.4	14.7	0.11	0.02	0.6	0.807
RMR-18-SS-254		43.9	490	3.3	1.6	<0.001	0.03	0.11	15.7	1.0	1.0	19.1	0.05	0.03	0.7	0.712
RMR-18-SS-255		33.4	570	1.9	1.0	<0.001	0.04	0.07	14.2	1.0	0.9	14.1	0.02	0.02	0.6	0.642
RMR-18-SS-256		29.7	330	2.4	0.9	<0.001	0.04	0.09	11.2	1.0	1.0	13.7	0.09	0.04	0.6	0.814
RMR-18-SS-257		34.0	320	3.0	1.6	0.001	0.03	0.10	13.3	1.0	1.2	15.1	0.07	0.04	0.6	0.887
RMR-18-SS-258		39.0	590	3.8	2.0	<0.001	0.04	0.12	18.1	1.2	1.0	21.4	0.07	0.05	0.8	0.671
RMR-18-SS-259		26.3	400	11.0	1.0	<0.001	0.04	0.10	15.8	1.3	1.1	14.3	0.03	0.07	0.6	0.689
RMR-18-SS-260		33.2	480	0.8	0.6	<0.001	0.01	<0.05	13.2	0.7	0.7	20.9	0.03	0.02	0.4	0.562
RMR-18-SS-261		35.2	690	3.0	2.0	<0.001	0.02	0.10	10.7	0.6	1.2	21.0	0.03	0.02	0.5	1.055
RMR-18-SS-262		25.6	550	2.1	1.1	<0.001	0.05	0.06	19.3	1.7	0.8	11.0	0.02	0.07	0.7	0.557
RMR-18-SS-263		28.5	600	2.5	1.3	<0.001	0.04	0.07	19.3	1.5	0.8	12.5	0.02	0.06	0.8	0.648
RMR-18-SS-264		21.0	510	2.1	0.9	<0.001	0.05	0.08	12.5	1.0	1.1	11.3	0.08	0.03	0.7	0.823
RMR-18-SS-265		33.7	550	1.0	0.8	<0.001	0.02	0.05	15.4	0.9	0.7	22.8	0.04	0.02	0.5	0.582
RMR-18-SS-266		20.7	600	8.3	1.4	<0.001	0.04	0.17	8.0	0.4	1.6	13.4	0.08	0.02	0.4	1.085
RMR-18-SS-267		15.9	1230	1.8	0.7	<0.001	0.06	0.08	17.7	2.2	0.8	7.9	0.01	0.05	0.8	0.571
RMR-18-SS-268		28.8	630	5.1	0.9	<0.001	0.03	0.73	14.1	1.1	0.9	27.6	0.05	0.03	0.6	0.741
RMR-18-SS-269		21.0	910	2.1	0.8	<0.001	0.05	0.08	17.5	1.4	0.8	10.1	0.04	0.05	0.7	0.602
RMR-18-SS-270		32.6	510	0.8	0.7	<0.001	0.04	<0.05	27.3	1.7	0.6	12.6	0.01	0.07	0.9	0.562
RMR-18-SS-271		32.5	470	2.3	1.1	<0.001	0.05	0.08	14.9	1.1	1.1	18.0	0.07	0.05	0.5	0.879
RMR-18-SS-272		36.5	570	2.3	1.3	<0.001	0.04	0.07	16.3	1.4	1.2	17.4	0.06	0.06	0.7	0.957
RMR-18-SS-273		14.7	490	3.5	0.8	<0.001	0.04	0.10	20.2	1.3	1.6	10.0	0.02	0.08	0.9	0.990
RMR-18-SS-274		26.4	500	3.7	1.4	<0.001	0.04	0.16	12.8	0.9	0.7	71.8	0.01	0.03	0.4	0.492
RMR-18-SS-275		22.8	590	1.9	0.6	<0.001	0.05	0.07	17.7	1.4	0.7	13.0	0.01	0.04	0.8	0.553
RMR-18-SS-276		24.9	580	3.0	1.1	<0.001	0.03	0.09	16.6	0.9	1.3	17.1	0.06	0.07	0.7	0.852
RMR-18-SS-277		15.3	450	10.3	0.8	<0.001	0.08	0.23	6.0	1.2	0.6	18.0	0.04	0.03	0.2	0.343
RMR-18-SS-278		13.2	550	8.1	1.0	<0.001	0.03	0.16	9.3	0.7	1.7	16.5	0.05	0.05	0.7	1.080
RMR-18-SS-279		15.0	720	4.1	1.0	<0.001	0.08	0.12	9.2	1.3	0.9	13.6	0.05	0.05	0.6	0.662
RMR-18-SS-280		8.4	440	3.6	0.9	<0.001	0.08	0.10	2.9	0.6	0.4	18.9	0.02	0.02	<0.2	0.270



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 3 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Tl ppm 0.02	U ppm 0.05	V ppm 1	W ppm 0.05	Y ppm 0.05	Zn ppm 2	Zr ppm 0.5
RMR-18-SS-241		<0.02	0.21	248	<0.05	13.35	46	26.0
RMR-18-SS-242		<0.02	0.25	360	<0.05	8.97	42	38.2
RMR-18-SS-243		<0.02	0.21	418	<0.05	5.76	37	26.3
RMR-18-SS-244		0.02	0.27	223	0.09	16.45	72	10.9
RMR-18-SS-245		<0.02	0.28	331	0.05	8.57	38	31.3
RMR-18-SS-246		0.02	0.53	234	0.09	29.6	51	19.1
RMR-18-SS-247		<0.02	0.32	340	<0.05	8.29	44	34.2
RMR-18-SS-248		0.02	0.33	260	<0.05	12.35	65	16.0
RMR-18-SS-249		<0.02	0.21	376	<0.05	7.26	52	24.7
RMR-18-SS-250		<0.02	0.32	275	<0.05	8.40	46	45.6
RMR-18-SS-251		<0.02	0.21	353	<0.05	6.81	54	26.0
RMR-18-SS-252		<0.02	0.36	424	<0.05	11.25	45	42.7
RMR-18-SS-253		<0.02	0.29	386	<0.05	6.10	44	19.1
RMR-18-SS-254		<0.02	0.30	310	<0.05	11.05	59	23.9
RMR-18-SS-255		<0.02	0.33	233	0.05	9.23	61	20.7
RMR-18-SS-256		<0.02	0.29	370	<0.05	8.29	42	23.9
RMR-18-SS-257		<0.02	0.27	376	<0.05	10.20	59	25.2
RMR-18-SS-258		0.02	0.41	283	<0.05	16.85	67	18.4
RMR-18-SS-259		<0.02	0.34	289	<0.05	15.75	70	18.1
RMR-18-SS-260		<0.02	0.22	201	0.06	13.50	39	24.2
RMR-18-SS-261		<0.02	0.17	384	<0.05	6.69	55	20.0
RMR-18-SS-262		0.02	0.41	195	0.06	12.70	52	28.8
RMR-18-SS-263		0.02	0.43	262	0.07	13.60	50	31.1
RMR-18-SS-264		<0.02	0.24	317	<0.05	5.81	46	39.1
RMR-18-SS-265		<0.02	0.26	200	0.06	16.70	40	23.3
RMR-18-SS-266		<0.02	0.20	459	<0.05	4.21	34	16.3
RMR-18-SS-267		<0.02	0.50	239	0.05	9.29	37	26.6
RMR-18-SS-268		<0.02	0.29	292	<0.05	10.95	47	24.6
RMR-18-SS-269		<0.02	0.33	277	<0.05	9.04	34	32.6
RMR-18-SS-270		<0.02	0.44	198	0.07	17.60	39	47.9
RMR-18-SS-271		0.02	0.33	330	<0.05	16.00	55	23.9
RMR-18-SS-272		<0.02	0.38	348	0.06	19.25	71	23.5
RMR-18-SS-273		<0.02	0.35	440	<0.05	12.10	33	49.6
RMR-18-SS-274		0.02	0.22	230	<0.05	11.05	72	10.7
RMR-18-SS-275		<0.02	0.35	231	<0.05	10.25	34	33.5
RMR-18-SS-276		<0.02	0.31	372	<0.05	11.55	46	26.1
RMR-18-SS-277		0.02	0.13	133	0.06	6.84	27	10.5
RMR-18-SS-278		<0.02	0.30	494	<0.05	3.92	25	22.0
RMR-18-SS-279		0.03	0.26	272	<0.05	5.13	41	20.4
RMR-18-SS-280		<0.02	0.08	113	<0.05	2.80	31	5.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 4 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
RMR-18-SS-281		0.42	0.11	5.27	1.0	<0.02	<10	20	0.64	0.05	1.18	0.17	21.2	24.4	110	0.39
RMR-18-SS-282		0.46	0.11	5.87	0.9	<0.02	<10	20	0.73	0.05	1.75	0.19	34.3	30.1	100	0.36
RMR-18-SS-283		0.36	0.15	4.40	0.6	<0.02	<10	20	0.73	0.08	1.15	0.13	25.6	30.2	112	0.42
RMR-18-SS-284		0.34	0.18	4.52	0.8	<0.02	<10	20	0.60	0.05	1.72	0.15	18.35	23.8	101	0.45
RMR-18-SS-285		0.32	0.10	6.17	0.9	<0.02	<10	10	0.54	0.04	1.25	0.12	13.35	18.1	105	0.32
RMR-18-SS-286		0.34	0.14	5.56	0.8	<0.02	<10	10	0.60	0.06	1.43	0.15	12.30	18.3	104	0.36
RMR-18-SS-287		0.36	0.18	4.33	0.8	<0.02	<10	20	0.55	0.05	1.75	0.14	13.15	56.8	72	0.40
RMR-18-SS-288		0.34	0.19	5.89	0.9	<0.02	<10	10	0.54	0.04	1.10	0.13	11.50	19.7	87	0.21
RMR-18-SS-289		0.32	0.44	5.21	0.7	<0.02	<10	10	0.43	0.05	0.99	0.18	12.15	18.5	116	0.18
RMR-18-SS-290		0.36	0.15	5.34	0.9	<0.02	<10	20	0.60	0.05	1.47	0.12	19.80	28.3	93	0.38
RMR-18-SS-291		0.28	0.13	5.56	0.7	<0.02	<10	10	0.63	0.06	1.30	0.16	22.5	21.8	90	0.30
RMR-18-SS-292		0.36	0.07	3.49	0.5	<0.02	<10	20	0.45	0.06	1.58	0.18	11.95	18.8	79	0.23
RMR-18-SS-293		0.34	0.09	3.69	0.9	<0.02	<10	20	0.45	0.06	1.50	0.17	10.85	23.6	77	0.38
RMR-18-SS-294		0.34	0.09	4.44	0.7	<0.02	<10	10	0.51	0.04	1.64	0.13	15.15	17.1	75	0.29
RMR-18-SS-295		0.34	0.12	4.84	0.5	<0.02	<10	10	0.64	0.07	1.37	0.13	10.85	20.5	99	0.30
RMR-18-SS-296		0.40	0.16	5.86	1.0	0.05	<10	10	0.54	0.06	1.88	0.17	14.20	23.6	93	0.37
RMR-18-SS-297		0.54	0.19	6.33	1.0	<0.02	<10	20	0.63	0.04	1.91	0.15	22.8	30.3	95	0.43
RMR-18-SS-298		0.34	0.19	5.21	1.6	<0.02	<10	20	0.53	0.05	1.09	0.16	12.00	19.2	73	0.35
RMR-18-SS-299		0.28	0.10	4.48	0.8	<0.02	<10	20	0.59	0.04	1.85	0.17	17.65	32.3	70	0.33
RMR-18-SS-300		0.28	0.28	4.92	0.9	<0.02	<10	20	0.62	0.06	1.51	0.14	22.1	24.5	93	0.67
RMR-18-SS-301		0.36	0.13	4.90	0.9	<0.02	<10	20	0.54	0.04	2.21	0.12	29.0	24.2	63	0.23
RMR-18-SS-302		0.24	0.11	4.31	0.9	<0.02	<10	20	0.46	0.03	2.19	0.15	18.15	25.2	59	0.23
RMR-18-SS-303		0.32	0.10	4.85	1.4	<0.02	<10	20	0.58	0.05	1.93	0.13	25.5	29.0	87	0.34
RMR-18-SS-304		0.40	0.11	5.49	1.0	<0.02	<10	30	0.71	0.05	1.79	0.13	33.6	40.1	89	0.26
RMR-18-SS-305		0.32	0.09	4.81	1.1	<0.02	<10	20	0.60	0.03	1.80	0.12	28.9	27.2	75	0.24
RMR-18-SS-306		0.40	0.11	5.09	1.0	<0.02	<10	20	0.63	0.05	1.44	0.13	24.1	24.8	96	0.26
RMR-18-SS-307		0.30	0.17	3.83	0.6	<0.02	<10	20	0.65	0.08	1.15	0.12	27.5	13.7	85	0.28
RMR-18-SS-308		0.38	0.13	4.12	0.7	<0.02	<10	10	0.53	0.06	1.39	0.14	15.45	21.1	81	0.24
RMR-18-SS-309		0.34	0.12	6.21	1.1	<0.02	<10	10	0.71	0.04	1.31	0.15	32.0	28.2	84	0.37
RMR-18-SS-310		0.30	0.29	3.15	2.9	<0.02	<10	20	0.57	0.14	0.75	0.27	37.0	173.0	56	0.32
RMR-18-SS-311		0.32	0.14	4.31	1.1	<0.02	<10	30	0.68	0.08	1.14	0.24	34.3	58.3	87	0.54
RMR-18-SS-312		0.30	0.15	2.98	0.8	<0.02	<10	10	0.44	0.06	0.47	0.10	15.20	7.8	65	0.18
RMR-18-SS-313		0.38	0.12	2.54	0.8	<0.02	<10	20	0.40	0.06	0.67	0.11	19.00	9.5	47	0.27
RMR-18-SS-314		0.26	0.18	2.81	1.4	<0.02	<10	30	0.44	0.09	0.93	0.23	21.4	18.7	46	0.34
RMR-18-SS-315		0.30	0.19	4.80	1.5	<0.02	<10	20	0.70	0.09	0.55	0.15	18.85	11.8	47	0.34
RMR-18-SS-316		0.44	0.18	4.05	2.9	<0.02	<10	30	0.52	0.03	1.85	0.19	29.9	26.4	34	0.23
RMR-18-SS-317		0.42	0.12	5.14	1.2	<0.02	<10	20	0.57	0.03	1.28	0.12	36.6	19.6	78	0.23
RMR-18-SS-318		0.36	0.17	6.24	0.9	<0.02	<10	10	0.81	0.05	0.93	0.12	20.7	32.1	121	0.35
RMR-18-SS-319		0.50	0.09	3.37	0.4	<0.02	<10	30	0.61	0.07	1.51	0.18	16.25	23.9	86	0.64
RMR-18-SS-320		0.44	0.16	4.22	0.5	<0.02	<10	20	0.45	0.07	1.19	0.17	5.23	13.7	87	0.45



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 4 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Method Analyte Units LOD	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
RMR-18-SS-281	90.4	8.39	15.55	0.09	0.63	0.20	0.081	0.01	4.1	7.9	0.47	328	0.66	0.01	5.29
RMR-18-SS-282	87.6	6.78	15.55	0.13	0.24	0.18	0.074	0.01	6.4	6.0	0.57	1780	1.23	0.01	3.28
RMR-18-SS-283	61.2	10.00	19.80	0.11	0.56	0.16	0.095	0.01	3.7	9.2	0.43	575	0.56	0.01	4.95
RMR-18-SS-284	87.0	8.75	16.80	0.10	0.62	0.14	0.080	0.01	3.2	6.4	0.67	419	0.85	0.01	4.61
RMR-18-SS-285	74.3	8.42	14.05	0.11	1.13	0.27	0.087	0.01	3.3	4.9	0.45	323	0.59	0.01	4.80
RMR-18-SS-286	75.4	9.45	18.00	0.12	0.94	0.27	0.096	0.01	3.3	5.8	0.48	361	0.66	0.01	5.59
RMR-18-SS-287	81.2	6.89	13.45	0.10	0.24	0.22	0.064	0.02	3.9	5.0	0.72	1640	0.61	0.01	3.96
RMR-18-SS-288	64.2	7.70	13.70	0.12	0.54	0.30	0.081	0.01	3.8	4.0	0.32	308	0.53	0.01	4.99
RMR-18-SS-289	51.6	10.75	19.45	0.10	0.76	0.43	0.106	0.01	3.3	3.8	0.30	371	0.65	0.01	5.85
RMR-18-SS-290	130.0	7.88	14.35	0.11	0.49	0.22	0.068	0.01	5.3	5.0	0.40	538	0.64	0.01	4.12
RMR-18-SS-291	73.0	7.67	13.95	0.11	0.81	0.25	0.067	0.01	4.7	4.6	0.40	316	0.60	0.01	4.67
RMR-18-SS-292	56.6	8.35	17.05	0.10	0.28	0.16	0.075	0.01	3.1	4.3	0.61	681	0.55	0.01	4.13
RMR-18-SS-293	71.8	7.62	15.25	0.09	0.46	0.15	0.064	0.01	3.0	5.6	0.61	647	0.53	0.01	3.97
RMR-18-SS-294	70.5	7.50	15.10	0.11	0.80	0.12	0.062	0.01	3.1	3.8	0.56	360	0.51	0.01	3.93
RMR-18-SS-295	68.7	9.71	20.1	0.11	0.78	0.17	0.089	0.01	3.2	5.3	0.39	365	0.56	0.01	4.20
RMR-18-SS-296	84.8	8.37	16.35	0.11	1.07	0.20	0.087	0.01	3.4	5.4	0.60	434	0.58	0.01	3.86
RMR-18-SS-297	116.5	7.85	15.15	0.14	1.19	0.23	0.081	0.01	4.5	5.4	0.77	515	0.66	0.01	3.63
RMR-18-SS-298	56.1	6.07	10.55	0.10	0.62	0.44	0.059	0.01	3.7	3.1	0.31	500	0.61	0.01	5.14
RMR-18-SS-299	82.1	5.64	12.70	0.12	0.36	0.20	0.060	0.01	4.9	4.4	0.63	1290	0.50	0.01	3.91
RMR-18-SS-300	83.2	8.81	15.30	0.11	0.39	0.16	0.082	0.01	4.2	6.3	0.52	508	0.78	0.01	4.72
RMR-18-SS-301	124.5	6.92	13.85	0.15	0.59	0.13	0.064	0.01	5.4	4.5	0.80	601	0.52	0.02	3.03
RMR-18-SS-302	127.5	5.88	12.20	0.15	0.45	0.11	0.051	0.02	4.9	4.1	0.90	1210	0.75	0.02	2.86
RMR-18-SS-303	123.0	7.54	15.20	0.14	0.41	0.13	0.069	0.01	6.2	4.8	0.72	749	0.54	0.01	3.96
RMR-18-SS-304	116.5	6.86	13.30	0.10	0.53	0.13	0.064	0.01	9.5	5.1	0.72	575	0.73	0.02	4.32
RMR-18-SS-305	109.5	6.37	12.40	0.10	0.52	0.11	0.061	0.02	5.4	5.0	0.85	601	0.50	0.02	4.15
RMR-18-SS-306	91.6	8.16	16.30	0.09	0.73	0.14	0.075	0.01	6.1	4.4	0.52	325	0.55	0.01	5.12
RMR-18-SS-307	65.5	8.43	17.45	0.07	0.40	0.16	0.076	0.01	4.9	5.3	0.39	287	0.73	0.01	6.09
RMR-18-SS-308	79.8	8.93	17.30	0.07	0.58	0.13	0.078	0.01	4.2	4.5	0.51	404	0.56	0.01	5.10
RMR-18-SS-309	98.3	6.44	12.75	0.09	0.55	0.20	0.066	0.01	5.0	4.6	0.47	749	0.99	0.01	4.59
RMR-18-SS-310	49.9	5.81	11.00	0.08	0.13	0.33	0.067	0.03	5.3	3.0	0.21	4230	0.89	0.01	3.47
RMR-18-SS-311	67.9	6.52	15.75	0.06	0.24	0.26	0.084	0.02	4.2	5.0	0.37	3270	1.14	0.01	3.89
RMR-18-SS-312	58.9	6.61	13.50	0.06	0.24	0.15	0.052	0.01	3.5	4.3	0.18	179	1.20	0.01	4.30
RMR-18-SS-313	86.0	6.25	12.00	0.06	0.15	0.09	0.049	0.01	4.3	3.5	0.30	215	0.57	0.01	4.01
RMR-18-SS-314	50.7	5.00	10.90	0.06	0.16	0.23	0.048	0.02	5.9	3.6	0.27	1440	0.75	0.01	3.77
RMR-18-SS-315	138.0	8.05	16.35	0.05	0.24	0.21	0.073	0.02	5.7	5.9	0.23	176	1.02	0.01	5.13
RMR-18-SS-316	274	4.39	9.07	0.14	0.27	0.11	0.037	0.03	7.5	5.0	0.77	733	0.39	0.04	2.58
RMR-18-SS-317	92.5	5.81	11.90	0.08	0.69	0.19	0.055	0.01	4.5	4.1	0.54	332	0.45	0.01	4.47
RMR-18-SS-318	69.2	9.93	17.15	0.09	1.28	0.17	0.102	0.01	5.3	5.0	0.40	303	0.99	0.01	3.55
RMR-18-SS-319	66.6	6.92	15.90	0.06	0.27	0.09	0.064	0.01	3.8	8.4	0.59	984	1.31	0.01	4.15
RMR-18-SS-320	49.0	7.90	17.00	0.06	0.67	0.12	0.073	0.01	2.1	6.4	0.42	226	0.51	0.01	2.99



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 4 - C
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
RMR-18-SS-281		34.3	350	2.7	1.7	<0.001	0.04	0.11	16.2	1.2	1.1	16.0	0.05	0.05	0.6	0.753
RMR-18-SS-282		44.9	380	2.1	1.3	0.001	0.04	0.17	20.3	1.4	1.0	20.4	0.05	0.06	0.6	0.716
RMR-18-SS-283		29.1	270	3.3	1.4	<0.001	0.03	0.08	10.2	0.8	1.3	17.2	0.04	0.04	0.6	0.914
RMR-18-SS-284		35.9	370	2.1	1.7	<0.001	0.03	0.08	15.2	0.9	1.1	17.8	0.05	0.04	0.7	0.865
RMR-18-SS-285		25.1	440	1.7	0.9	<0.001	0.05	0.07	19.4	1.2	0.9	12.2	0.02	0.06	0.8	0.758
RMR-18-SS-286		25.6	390	2.5	1.1	<0.001	0.04	0.09	15.8	1.3	1.1	13.8	0.09	0.05	0.8	0.839
RMR-18-SS-287		32.2	470	2.1	1.2	<0.001	0.05	0.07	12.7	1.0	1.0	17.0	0.04	0.05	0.4	0.720
RMR-18-SS-288		21.4	520	1.6	0.9	<0.001	0.06	0.07	14.7	1.6	0.8	12.8	0.08	0.05	0.5	0.628
RMR-18-SS-289		17.0	440	1.9	0.7	<0.001	0.05	0.07	13.7	1.3	1.1	13.4	0.09	0.06	0.7	0.862
RMR-18-SS-290		24.9	500	2.2	1.2	<0.001	0.04	0.07	19.2	1.1	1.0	14.9	0.04	0.06	0.7	0.796
RMR-18-SS-291		26.9	470	2.1	0.9	<0.001	0.03	0.08	19.3	1.1	1.0	13.0	0.03	0.07	0.7	0.769
RMR-18-SS-292		23.9	570	3.8	1.6	<0.001	0.04	0.09	10.6	0.6	1.1	18.8	0.05	0.04	0.4	0.818
RMR-18-SS-293		28.0	480	3.1	1.6	<0.001	0.03	0.09	11.9	0.6	1.0	17.4	0.04	0.03	0.6	0.762
RMR-18-SS-294		26.4	380	2.6	1.1	<0.001	0.03	0.08	13.6	0.6	1.1	15.3	0.07	0.03	0.6	0.805
RMR-18-SS-295		24.1	420	2.8	0.8	<0.001	0.04	0.08	14.1	0.9	1.3	12.9	0.08	0.04	0.7	0.957
RMR-18-SS-296		30.4	510	2.0	1.1	<0.001	0.03	0.07	18.2	1.1	1.1	15.7	0.04	0.03	0.9	0.842
RMR-18-SS-297		42.7	500	1.5	1.2	<0.001	0.03	0.07	26.4	1.3	1.0	16.6	0.03	0.04	0.9	0.821
RMR-18-SS-298		20.0	410	3.7	1.0	<0.001	0.07	0.11	11.3	1.4	0.7	15.5	0.06	0.02	0.6	0.553
RMR-18-SS-299		32.7	430	3.2	1.1	<0.001	0.05	0.08	15.0	1.0	0.9	18.5	0.06	0.04	0.5	0.638
RMR-18-SS-300		33.5	560	2.2	1.9	<0.001	0.04	0.08	13.0	1.3	1.0	18.4	0.06	0.04	0.6	0.801
RMR-18-SS-301		36.4	390	3.3	0.9	<0.001	0.03	0.07	18.8	1.1	1.0	26.0	0.04	0.03	0.6	0.701
RMR-18-SS-302		35.6	500	3.8	1.2	<0.001	0.04	0.26	16.4	0.9	0.9	27.7	0.02	0.03	0.5	0.617
RMR-18-SS-303		34.3	400	3.1	1.2	<0.001	0.04	0.07	17.5	1.1	1.0	19.6	0.05	0.04	0.7	0.740
RMR-18-SS-304		46.9	430	4.4	1.1	0.001	0.05	0.07	23.2	0.5	0.9	18.2	0.04	<0.01	0.6	0.672
RMR-18-SS-305		42.6	450	2.9	1.2	<0.001	0.04	0.07	16.7	0.8	0.8	18.5	0.03	<0.01	0.5	0.657
RMR-18-SS-306		32.6	400	2.1	1.1	<0.001	0.03	0.07	20.6	0.7	1.1	14.5	0.05	<0.01	0.7	0.896
RMR-18-SS-307		25.7	350	3.0	1.1	<0.001	0.04	0.08	11.3	0.5	1.2	14.6	0.05	0.01	0.5	0.927
RMR-18-SS-308		27.1	440	2.8	1.0	0.001	0.03	0.08	13.1	0.5	1.2	13.1	0.07	0.01	0.6	0.912
RMR-18-SS-309		32.6	540	1.8	1.2	<0.001	0.04	0.07	17.9	1.1	0.8	12.0	0.07	0.01	0.5	0.609
RMR-18-SS-310		17.7	590	9.9	1.2	<0.001	0.08	0.20	7.4	1.1	0.8	14.1	0.05	0.01	0.2	0.442
RMR-18-SS-311		27.0	460	3.7	1.5	0.001	0.05	0.09	11.7	1.0	0.9	14.1	0.05	0.01	0.4	0.603
RMR-18-SS-312		15.9	300	3.1	0.7	<0.001	0.04	0.10	10.1	0.9	1.0	11.3	0.04	0.02	0.5	0.581
RMR-18-SS-313		17.7	270	2.6	1.0	<0.001	0.03	0.07	7.3	0.7	0.8	15.3	0.01	0.01	0.4	0.537
RMR-18-SS-314		22.4	580	9.8	1.6	<0.001	0.07	0.18	7.5	0.7	0.8	15.2	0.04	0.01	0.3	0.471
RMR-18-SS-315		17.9	750	3.5	1.6	<0.001	0.05	0.10	13.7	0.8	0.9	18.2	0.08	0.01	0.5	0.522
RMR-18-SS-316		32.8	710	3.5	1.9	<0.001	0.04	0.08	13.8	0.3	0.5	39.8	0.02	0.01	0.5	0.369
RMR-18-SS-317		33.9	490	1.8	0.9	<0.001	0.03	0.07	19.7	0.7	0.8	14.3	0.04	0.01	0.6	0.615
RMR-18-SS-318		31.0	400	1.8	1.2	<0.001	0.09	0.07	20.4	0.8	1.0	10.1	0.02	0.01	0.8	0.815
RMR-18-SS-319		34.5	280	2.8	1.4	<0.001	0.02	0.10	9.5	0.5	1.1	17.8	0.02	<0.01	0.4	0.847
RMR-18-SS-320		28.0	390	2.9	1.5	<0.001	0.01	0.10	10.1	0.4	1.2	10.8	0.04	<0.01	0.6	0.858



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 4 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl ppm 0.02	U ppm 0.05	V ppm 1	W ppm 0.05	Y ppm 0.05	Zn ppm 2	Zr ppm 0.5
RMR-18-SS-281		0.02	0.29	330	0.05	12.05	63	26.7
RMR-18-SS-282		0.02	0.39	324	<0.05	17.60	63	13.4
RMR-18-SS-283		<0.02	0.26	376	<0.05	10.40	71	22.8
RMR-18-SS-284		<0.02	0.28	347	<0.05	10.35	63	29.1
RMR-18-SS-285		<0.02	0.38	302	<0.05	11.10	43	42.6
RMR-18-SS-286		<0.02	0.32	317	<0.05	9.59	40	37.8
RMR-18-SS-287		0.02	0.29	264	<0.05	12.80	56	11.8
RMR-18-SS-288		<0.02	0.30	270	0.05	10.45	43	23.6
RMR-18-SS-289		<0.02	0.42	350	<0.05	7.54	29	31.6
RMR-18-SS-290		0.02	0.31	326	<0.05	16.45	45	22.8
RMR-18-SS-291		<0.02	0.30	321	<0.05	17.00	44	33.3
RMR-18-SS-292		<0.02	0.31	319	<0.05	7.95	40	13.9
RMR-18-SS-293		<0.02	0.26	295	<0.05	8.09	55	20.6
RMR-18-SS-294		<0.02	0.22	328	<0.05	9.41	43	32.7
RMR-18-SS-295		<0.02	0.28	397	<0.05	10.10	52	31.4
RMR-18-SS-296		<0.02	0.29	327	<0.05	10.35	53	45.0
RMR-18-SS-297		<0.02	0.34	308	<0.05	16.30	60	51.1
RMR-18-SS-298		<0.02	0.33	183	0.07	9.65	35	24.5
RMR-18-SS-299		0.02	0.27	236	<0.05	12.70	58	17.5
RMR-18-SS-300		<0.02	0.32	320	0.06	14.10	68	19.0
RMR-18-SS-301		<0.02	0.29	275	<0.05	18.40	50	28.1
RMR-18-SS-302		<0.02	0.24	247	<0.05	15.00	57	21.7
RMR-18-SS-303		0.02	0.34	286	<0.05	19.20	46	19.9
RMR-18-SS-304		<0.02	0.33	261	0.06	27.3	56	26.0
RMR-18-SS-305		<0.02	0.29	232	0.05	18.20	53	24.5
RMR-18-SS-306		<0.02	0.31	344	<0.05	20.4	47	34.4
RMR-18-SS-307		<0.02	0.30	370	<0.05	16.20	49	18.9
RMR-18-SS-308		<0.02	0.28	386	<0.05	12.65	48	25.5
RMR-18-SS-309		0.02	0.35	253	0.07	16.10	52	26.0
RMR-18-SS-310		0.03	0.46	199	<0.05	15.05	42	5.8
RMR-18-SS-311		0.03	0.45	239	0.05	13.65	59	10.3
RMR-18-SS-312		<0.02	0.38	305	0.06	12.00	29	10.7
RMR-18-SS-313		<0.02	0.30	212	0.05	13.25	27	6.7
RMR-18-SS-314		0.03	0.26	209	0.06	14.05	52	6.9
RMR-18-SS-315		<0.02	0.36	289	0.07	20.2	52	10.5
RMR-18-SS-316		0.02	0.28	157	0.08	19.00	43	11.7
RMR-18-SS-317		<0.02	0.32	239	0.05	16.30	45	30.1
RMR-18-SS-318		<0.02	0.37	338	<0.05	22.6	52	46.2
RMR-18-SS-319		0.02	0.22	336	<0.05	10.85	68	12.1
RMR-18-SS-320		<0.02	0.17	318	<0.05	4.78	48	27.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 5 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
RMR-18-SS-321		0.50	0.06	4.70	0.9	<0.02	<10	20	0.50	0.04	1.43	0.16	8.67	23.4	79	0.50
RMR-18-SS-322		0.36	0.15	4.59	1.1	<0.02	<10	20	0.60	0.05	1.29	0.15	14.35	19.2	68	0.44
RMR-18-SS-323		0.40	0.14	3.18	0.7	<0.02	<10	10	0.36	0.06	1.11	0.13	11.70	11.0	69	0.17
RMR-18-SS-324		0.46	0.10	4.65	0.9	<0.02	<10	20	0.62	0.05	1.26	0.12	14.15	23.1	105	0.35
RMR-18-SS-325		0.38	0.09	3.92	0.7	<0.02	<10	10	0.52	0.06	0.82	0.16	9.91	15.9	106	0.19
RMR-18-SS-326		0.34	0.15	4.99	1.3	<0.02	<10	10	0.45	0.07	0.75	0.17	8.41	10.3	121	0.35
RMR-18-SS-327		0.30	0.07	3.85	0.6	<0.02	<10	20	0.51	0.10	0.75	0.11	8.85	16.0	103	0.26
RMR-18-SS-328		0.24	0.11	4.88	0.8	<0.02	<10	20	0.69	0.05	1.25	0.12	24.2	28.2	94	0.25
RMR-18-SS-329		0.24	0.10	4.66	0.5	<0.02	<10	10	0.61	0.08	0.70	0.13	16.95	21.2	116	0.24
RMR-18-SS-330		0.28	0.10	3.54	0.8	<0.02	<10	20	0.47	0.05	1.31	0.13	12.25	18.5	71	0.26
RMR-18-SS-331		0.30	0.07	4.98	1.0	<0.02	<10	20	0.55	0.05	1.14	0.12	10.05	20.8	81	0.34
RMR-18-SS-332		0.30	0.07	3.60	0.7	<0.02	<10	10	0.38	0.08	1.15	0.20	5.64	8.8	106	0.19
RMR-18-SS-333		0.36	0.15	3.87	0.8	<0.02	<10	20	0.66	0.07	1.09	0.15	15.80	22.2	95	0.35
RMR-18-SS-334		0.40	0.11	5.17	0.8	<0.02	<10	20	0.65	0.05	1.23	0.13	23.8	21.5	93	0.33
RMR-18-SS-335		0.38	0.17	3.83	0.8	<0.02	<10	30	0.52	0.07	1.40	0.19	15.25	21.7	78	0.52
RMR-18-SS-336		0.44	0.10	5.67	1.5	<0.02	<10	30	0.66	0.05	0.92	0.12	21.9	20.8	74	0.44
RMR-18-SS-337		0.34	0.07	6.91	2.2	<0.02	<10	30	0.65	0.03	1.00	0.10	17.40	17.2	76	0.26
RMR-18-SS-338		0.42	0.10	4.19	0.7	<0.02	<10	30	0.55	0.05	1.44	0.13	20.5	22.1	77	0.32
RMR-18-SS-339		0.46	0.13	4.05	0.9	<0.02	<10	30	0.61	0.05	1.58	0.18	12.30	22.7	76	0.43
RMR-18-SS-340		0.52	0.09	4.23	0.8	<0.02	<10	20	0.51	0.05	1.51	0.15	26.5	23.8	80	0.39
RMR-18-SS-341		0.44	0.08	4.20	0.6	<0.02	<10	20	0.50	0.07	1.33	0.15	13.05	19.7	98	0.54
RMR-18-SS-342		Not Recvd														
RMR-18-SS-343		Not Recvd														
RMR-18-SS-344		Not Recvd														
RMR-18-SS-345		Not Recvd														
RMR-18-SS-346		Not Recvd														
RMR-18-SS-347		Not Recvd														



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 5 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
RMR-18-SS-321		69.8	7.33	14.50	0.08	0.95	0.12	0.075	0.01	1.9	6.3	0.77	370	0.47	0.01	3.72
RMR-18-SS-322		91.0	7.12	12.80	0.08	0.44	0.32	0.068	0.01	3.8	6.9	0.69	389	0.62	0.01	5.43
RMR-18-SS-323		54.8	7.06	14.25	0.06	0.56	0.10	0.064	0.01	2.5	3.5	0.36	343	0.68	0.01	5.59
RMR-18-SS-324		54.6	7.90	15.70	0.07	0.96	0.16	0.076	0.01	3.0	5.0	0.45	357	0.44	0.01	4.27
RMR-18-SS-325		46.3	10.15	20.2	0.06	0.47	0.20	0.099	0.01	3.1	4.0	0.30	371	1.25	0.01	5.88
RMR-18-SS-326		73.5	12.90	27.9	0.07	0.97	0.28	0.123	0.01	2.7	3.5	0.31	195	0.52	0.01	5.99
RMR-18-SS-327		49.7	10.40	21.9	0.06	0.43	0.20	0.086	0.01	3.5	4.6	0.27	367	0.44	0.01	4.74
RMR-18-SS-328		69.2	7.43	13.90	0.07	0.44	0.16	0.068	0.01	5.8	5.9	0.40	299	0.66	0.01	4.66
RMR-18-SS-329		64.6	9.15	21.9	0.06	0.87	0.19	0.079	0.01	4.2	5.6	0.21	247	0.65	0.01	4.85
RMR-18-SS-330		73.9	6.66	13.55	0.06	0.52	0.12	0.056	0.01	3.1	4.3	0.48	537	0.51	0.02	4.34
RMR-18-SS-331		85.7	7.10	13.35	0.05	0.60	0.21	0.066	0.02	2.7	4.8	0.44	544	0.58	0.01	4.65
RMR-18-SS-332		31.0	10.20	20.7	0.05	0.72	0.21	0.089	0.01	1.7	3.2	0.30	259	0.48	0.01	4.77
RMR-18-SS-333		58.4	9.24	18.45	0.07	0.36	0.21	0.086	0.01	5.1	5.1	0.35	647	0.77	0.01	5.02
RMR-18-SS-334		76.5	7.69	15.40	0.08	0.81	0.22	0.071	0.01	4.8	5.0	0.38	295	0.79	0.01	4.80
RMR-18-SS-335		64.1	7.87	16.25	0.07	0.69	0.21	0.070	0.01	4.6	4.8	0.46	426	0.69	0.02	3.27
RMR-18-SS-336		89.5	6.71	13.50	0.07	0.61	0.29	0.063	0.01	3.5	5.4	0.37	387	0.67	0.01	4.59
RMR-18-SS-337		113.0	5.55	10.00	0.08	0.59	0.24	0.053	0.01	5.0	4.8	0.48	353	0.65	0.02	4.10
RMR-18-SS-338		103.5	7.49	15.85	0.07	0.70	0.13	0.067	0.01	3.9	4.9	0.57	398	0.58	0.01	3.08
RMR-18-SS-339		83.8	6.95	13.95	0.07	0.79	0.11	0.066	0.02	2.6	5.2	0.68	360	0.63	0.01	3.81
RMR-18-SS-340		70.0	7.85	16.05	0.07	0.52	0.11	0.072	0.01	4.1	5.0	0.49	364	1.38	0.01	4.57
RMR-18-SS-341		61.3	7.93	17.20	0.07	0.85	0.13	0.075	0.01	3.6	5.2	0.51	357	0.53	0.01	3.14
RMR-18-SS-342																
RMR-18-SS-343																
RMR-18-SS-344																
RMR-18-SS-345																
RMR-18-SS-346																
RMR-18-SS-347																



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 5 - C
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm	ME-MS41 Ti %
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
RMR-18-SS-321		44.6	390	1.8	1.4	<0.001	0.02	0.07	13.7	0.5	0.9	13.7	0.05	0.01	0.7	0.764
RMR-18-SS-322		42.8	420	2.1	1.4	<0.001	0.04	0.09	12.1	1.2	0.9	13.6	0.05	0.01	0.6	0.692
RMR-18-SS-323		18.2	370	2.5	0.7	<0.001	0.03	0.09	8.3	0.8	1.0	13.4	0.06	0.01	0.5	0.734
RMR-18-SS-324		35.8	400	2.2	1.2	<0.001	0.02	0.08	19.0	0.5	1.2	14.0	0.07	<0.01	0.7	0.868
RMR-18-SS-325		19.5	420	2.7	0.8	<0.001	0.05	0.08	10.4	0.6	1.2	10.5	0.09	0.01	0.5	0.893
RMR-18-SS-326		18.9	340	2.7	0.9	<0.001	0.10	0.11	10.3	0.7	1.1	9.8	0.09	0.02	0.8	0.806
RMR-18-SS-327		19.5	570	3.4	0.8	<0.001	0.03	0.09	9.9	0.5	1.3	19.2	0.08	0.01	0.6	0.878
RMR-18-SS-328		37.1	480	2.1	0.9	<0.001	0.03	0.08	17.8	0.7	1.0	14.2	0.09	0.01	0.5	0.769
RMR-18-SS-329		20.8	280	3.5	0.7	<0.001	0.03	0.10	18.2	0.7	1.4	9.0	0.12	0.01	0.7	0.964
RMR-18-SS-330		28.2	410	4.1	0.9	<0.001	0.03	0.10	11.9	0.5	1.0	17.9	0.06	<0.01	0.5	0.728
RMR-18-SS-331		28.0	630	4.0	1.4	<0.001	0.03	0.13	14.0	0.8	0.9	14.2	0.08	<0.01	0.7	0.688
RMR-18-SS-332		15.7	510	3.7	0.6	<0.001	0.03	0.13	9.0	0.5	1.4	9.9	0.08	<0.01	0.6	0.977
RMR-18-SS-333		24.7	510	3.2	1.2	0.001	0.04	0.09	13.2	0.6	1.2	13.7	0.08	0.02	0.5	0.903
RMR-18-SS-334		34.6	380	2.2	1.0	<0.001	0.03	0.08	19.2	0.8	1.1	12.8	0.08	0.01	0.7	0.852
RMR-18-SS-335		30.9	500	2.8	2.0	<0.001	0.01	0.10	16.4	0.8	1.2	16.9	0.05	0.02	0.7	0.895
RMR-18-SS-336		33.7	570	2.7	1.8	<0.001	0.03	0.10	16.5	1.0	0.8	13.2	0.06	0.01	0.8	0.652
RMR-18-SS-337		34.6	550	1.6	1.4	<0.001	0.04	0.07	18.3	1.3	0.6	14.9	0.01	0.01	0.7	0.468
RMR-18-SS-338		40.3	430	2.6	1.9	<0.001	0.01	0.08	17.1	0.5	1.1	20.0	0.04	0.01	0.6	0.825
RMR-18-SS-339		44.1	310	2.4	1.8	0.001	0.01	0.09	16.0	0.7	0.9	14.5	0.05	<0.01	0.8	0.774
RMR-18-SS-340		37.3	320	3.2	1.2	<0.001	0.02	0.10	13.7	0.8	1.1	17.4	0.06	0.01	0.6	0.801
RMR-18-SS-341		34.4	320	3.1	2.1	0.001	0.01	0.10	16.0	0.5	1.2	15.7	0.04	0.01	0.8	0.856
RMR-18-SS-342																
RMR-18-SS-343																
RMR-18-SS-344																
RMR-18-SS-345																
RMR-18-SS-346																
RMR-18-SS-347																



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

Page: 5 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

CERTIFICATE OF ANALYSIS VA18089960

Sample Description	Method Analyte Units LOD	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
RMR-18-SS-321		<0.02	0.23	271	<0.05	6.11	56	36.5
RMR-18-SS-322		0.02	0.30	221	0.08	11.05	61	19.0
RMR-18-SS-323		<0.02	0.22	279	<0.05	5.92	36	23.1
RMR-18-SS-324		0.02	0.26	339	<0.05	10.25	58	39.8
RMR-18-SS-325		<0.02	0.37	378	<0.05	8.60	39	20.9
RMR-18-SS-326		<0.02	0.29	378	<0.05	5.86	33	35.0
RMR-18-SS-327		<0.02	0.37	388	<0.05	7.07	33	18.8
RMR-18-SS-328		<0.02	0.33	313	<0.05	19.95	57	20.6
RMR-18-SS-329		<0.02	0.32	435	<0.05	15.50	46	33.5
RMR-18-SS-330		<0.02	0.29	283	<0.05	9.94	45	23.3
RMR-18-SS-331		<0.02	0.28	264	0.06	8.43	52	25.7
RMR-18-SS-332		<0.02	0.21	428	<0.05	3.94	27	29.8
RMR-18-SS-333		0.02	0.33	357	<0.05	17.65	48	17.0
RMR-18-SS-334		<0.02	0.32	332	<0.05	15.45	55	34.4
RMR-18-SS-335		0.02	0.22	335	<0.05	12.40	56	28.9
RMR-18-SS-336		0.02	0.35	246	0.06	13.00	58	26.5
RMR-18-SS-337		<0.02	0.38	181	0.07	14.30	45	25.7
RMR-18-SS-338		<0.02	0.26	326	<0.05	11.60	52	28.0
RMR-18-SS-339		<0.02	0.26	276	0.06	8.45	62	33.5
RMR-18-SS-340		<0.02	0.29	325	<0.05	13.45	57	23.5
RMR-18-SS-341		0.02	0.26	322	<0.05	9.82	58	32.7
RMR-18-SS-342								
RMR-18-SS-343								
RMR-18-SS-344								
RMR-18-SS-345								
RMR-18-SS-346								
RMR-18-SS-347								



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com/geochemistry

To: RICH RIVER EXPLORATION LTD.
 PO BOX 131
 GRINDROD BC V0E 1Y0

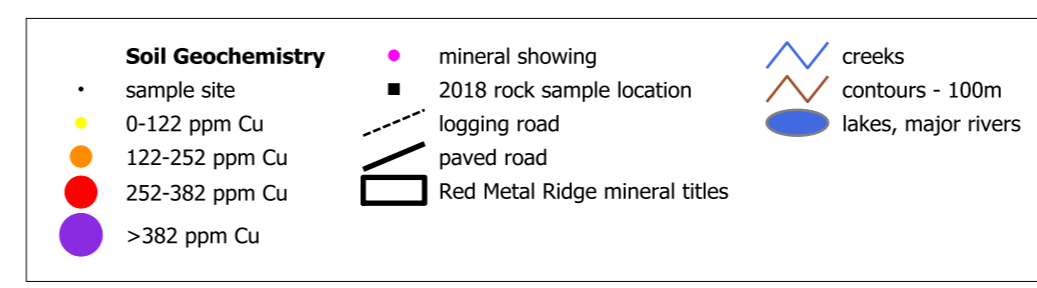
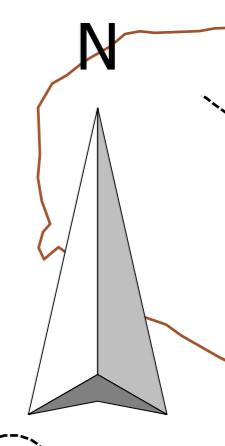
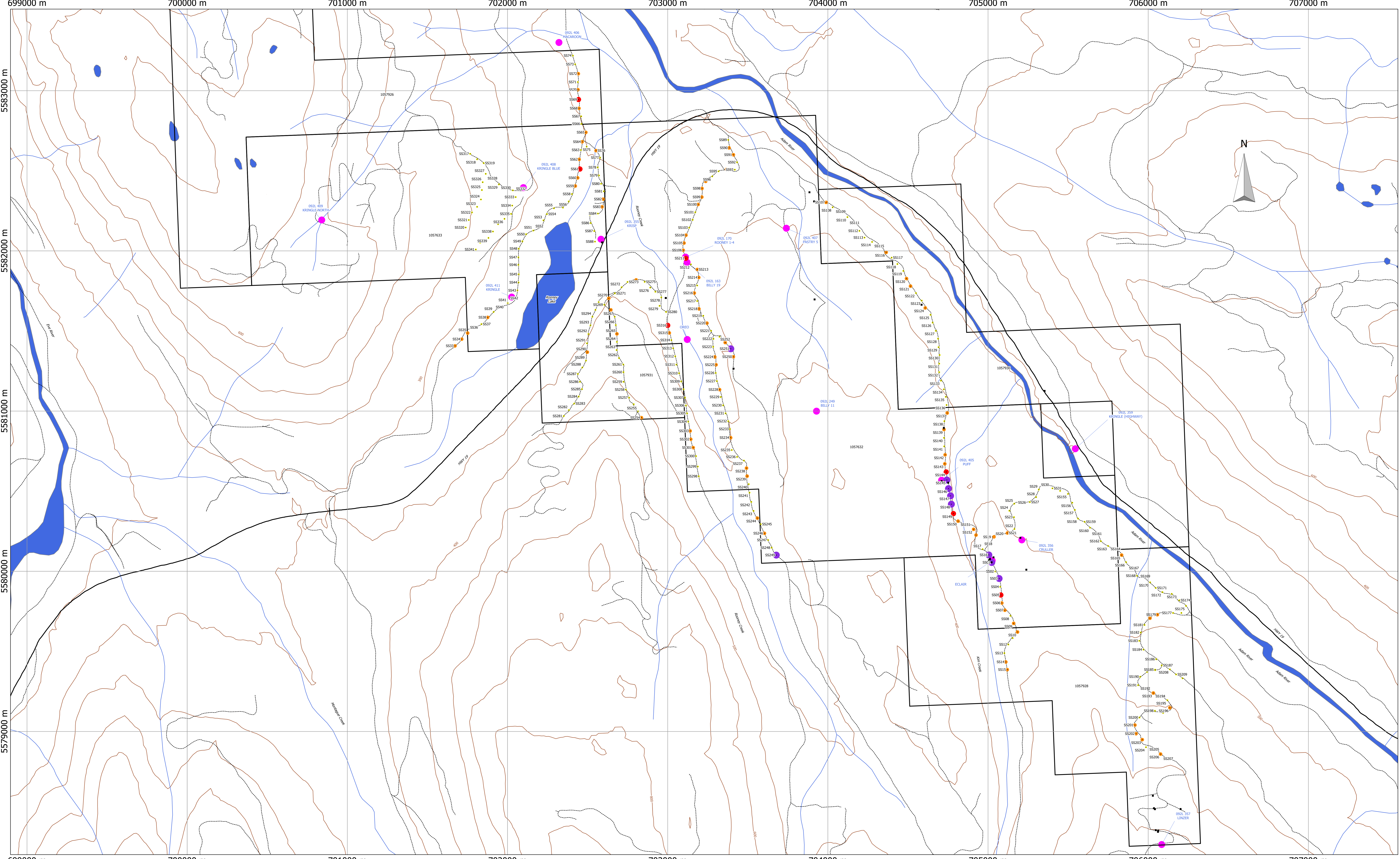
Page: Appendix 1
 Total # Appendix Pages: 1
 Finalized Date: 14-MAY-2018
 Account: RCHRIV

Project: RED METAL RIDGE

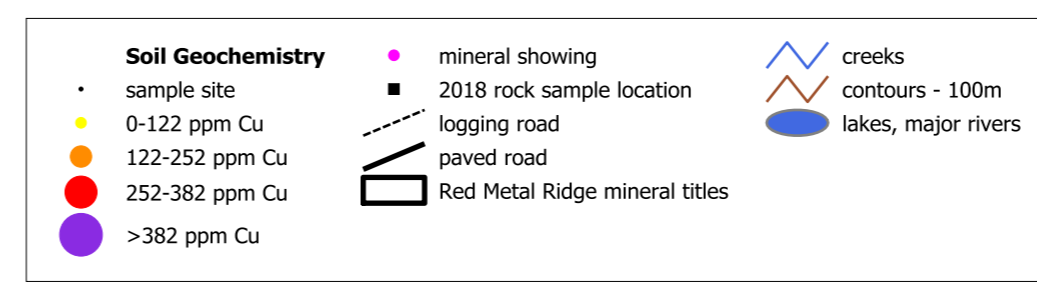
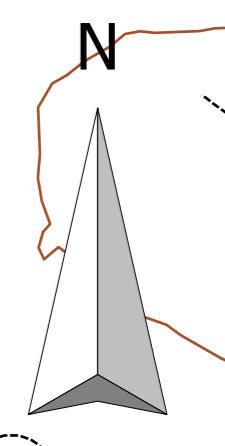
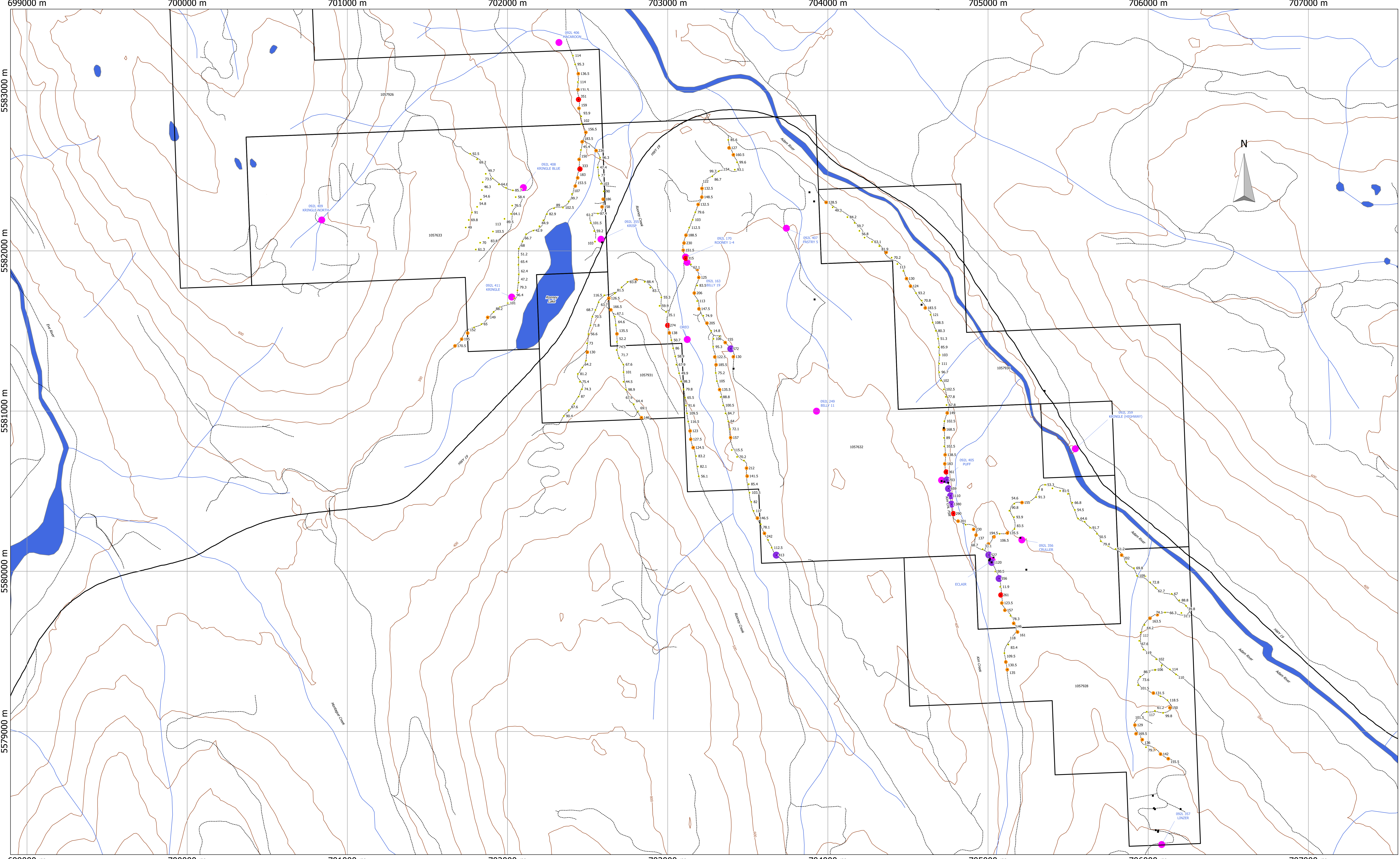
CERTIFICATE OF ANALYSIS VA18089960

CERTIFICATE COMMENTS							
Applies to Method:	<p>ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p>						
Applies to Method:	<p>LABORATORY ADDRESSES</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">ME-MS41</td> <td style="width: 33%;">SCR-41</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: right;">WEI-21</td> </tr> </table>	LOG-22	ME-MS41	SCR-41			WEI-21
LOG-22	ME-MS41	SCR-41			WEI-21		

Appendix E - Maps



Crest Resources Inc.	
Red Metal Ridge Property	
0 1000 m	
Soil Geochemistry - Sample Numbers	
Map No.: 1	Scale: 1:7,500
Projection: UTM Zone 9	Datum: North American Datum 1983
Sampling by: Rich River Exploration	Date of Sampling: April 2018
Map prepared by: D.G. MacIntyre	Last Revised: February, 2019
D.G. MacIntyre & Associates, Victoria, B.C., Canada	



Crest Resources Inc.
Red Metal Ridge Property

0 1000 m

Soil Geochemistry - ppm Cu

Map No.: 2	Scale: 1:7,500
Projection: UTM Zone 9	Datum: North American Datum 1983
Sampling by: Rich River Exploration	Date of Sampling: April 2018
Map prepared by: D.G. MacIntyre	Last Revised: February, 2019
D.G. MacIntyre & Associates, Victoria, B.C., Canada	