

**TECHNICAL WORK – GEOLOGICAL and GEOCHEMICAL  
ASSESSMENT REPORT**

on the

**FRANK CREEK  
and  
BLACK BEAR EAST  
Properties**

(mineral claim tenure nos. 514364, 514272)

Cariboo Mining Division, British Columbia



for

Barker Minerals Ltd.

BCGS: 93A/11 & 93A/14

LATITUDE 52.75°

LONGITUDE 121.36°

UTM Zone 10 EASTING 610655 (Frank Creek) 607000  
(Black Bear East)

NORTHING 5845640 (Frank Creek) 5833000 (Black Bear East)

Rein Turna

December 13, 2014



## ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: **Technical Work – Geological & Geochemical Assessment Report on the Frank Creek and Black Bear East Properties, Cariboo Mining Division, British Columbia**

TOTAL COST: **\$47,250.00**

AUTHOR(S): **Rein Turna**

SIGNATURE(S): **“SIGNED”**

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): **MX-10-155 & MX-10-228**

STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): **5509327**

**August 1, 2013 to March 1, 2014**

YEAR OF WORK: **2013- 2014**

PROPERTY NAME: **Frank Creek and Black Bear East**

CLAIM NAME(S) (on which work was done)

**514272 & 514364**

COMMODITIES SOUGHT: **Copper, Lead, Zinc, Silver & Gold**

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: **N/K**

MINING DIVISION: **Cariboo**

BCGS: **93A/11 & 93A/14**

LATITUDE **52.75°**

LONGITUDE **121.36°**

UTM Zone **10** EASTING **610655 (Frank Creek) 607000 (Black Bear East)**

NORTHING **5845640 (Frank Creek) 5833000 (Black Bear East)**

OWNER(S): **Barker Minerals Ltd.**

MAILING ADDRESS: **8384 Toombs Drive, Prince George BC, V2K 5A3**

OPERATOR(S) [who paid for the work]: **Barker Minerals Ltd.**

MAILING ADDRESS: **8384 Toombs Drive, Prince George BC, V2K 5A3**

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude **do not use abbreviations or codes**)

**Barkerville Terrane, Silver & Gold**

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS

**9669, 9677, 10252, 10264, 11620, 13154, 15420, 15804, 17696, 19354, 21930, 22599, 22642, 24662, 25752, 26003, 26504, 26805, 27125, 27655, 28248, 28978, 29740, 30764.**

## **1.0 SUMMARY**

This report describes work done during the latter portion of 2013 on Barker Minerals Ltd.'s Frank Creek and Black Bear East properties. The work consisted of geochemical sampling. Soil and rock samples collected from 19 test holes excavated in 2013 at the Frank Creek property were analyzed. At Black Bear East, soil samples were collected at 38 locations along a road traverse. The above work was performed within the context of on-going exploration programs on the properties. The work was too limited in scope to allow general conclusions to be drawn on that work alone. Exploration on Barker Minerals Ltd.'s properties will continue in accordance with overall results and recommendations made in recent past work.

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## 2.0 INTRODUCTION

This report describes assessment work performed late in 2013 on Barker Minerals Ltd.'s Frank Creek (mineral claim tenure no. 514364) and Black Bear East (tenure no. 514272). Nineteen soil samples from 19 test holes were collected at Frank Creek. Ten of the 19 test holes were filled along with several older holes and trenches from previous years' work. Thirty eight soil samples were collected from Black Bear East.

## 3.0 PROPERTY DESCRIPTION and LOCATION

Barker Minerals Ltd.'s Frank Creek and Black Bear East properties are contained within Barker's Main Property which consists of contiguous claims listed in Appendix B – Barker Minerals Ltd. Mineral Claims Details. The Main Property's location in British Columbia is indicated in Figure No. 1 – Main Property Location in British Columbia, and the mineral claims are outlined in Figure No. 2 – Barker Minerals Ltd. Mineral Claims. The mineral claims comprising the property are located generally in the area between Quesnel and Cariboo Lakes of the Cariboo Mining Division in British Columbia and are 100% owned by Barker Minerals Ltd. of Prince George, B.C. The 'Main Property' was labeled 'Peripheral Properties' in previous reports. They comprise the approximately 80 km x 30 km area of contiguous Barker claims. The terms 'Main' and 'Peripheral' properties are used interchangeably in this report.

The Property is approximately 10 km north of the settlement of Likely and 90 km northeast the City of Williams Lake. The City of Prince George is 155 km to the north.

The geographic coordinates of the Frank Creek Property are:

52.75° North Latitude and 121.36° West Longitude or  
610655 E and 5845640 N UTM coordinates (NAD 83).

The relevant maps are:

N.T.S. Map No. 93A/11 and 93A/14.

The geographic coordinates to the Black Bear property are:

52.75° North Latitude and 121.36° West Longitude or  
607000 E and 5833000 N UTM (Nad83 zone 10)

The relevant maps are:

N.T.S. Map No. 93A/11.



Figure No. 1 Main Property Location in British Columbia.

#### 4.0 MINERAL CLAIMS

Details about the mineral claims are provided in Appendix B – Barker Minerals Ltd. Mineral Claims Details.

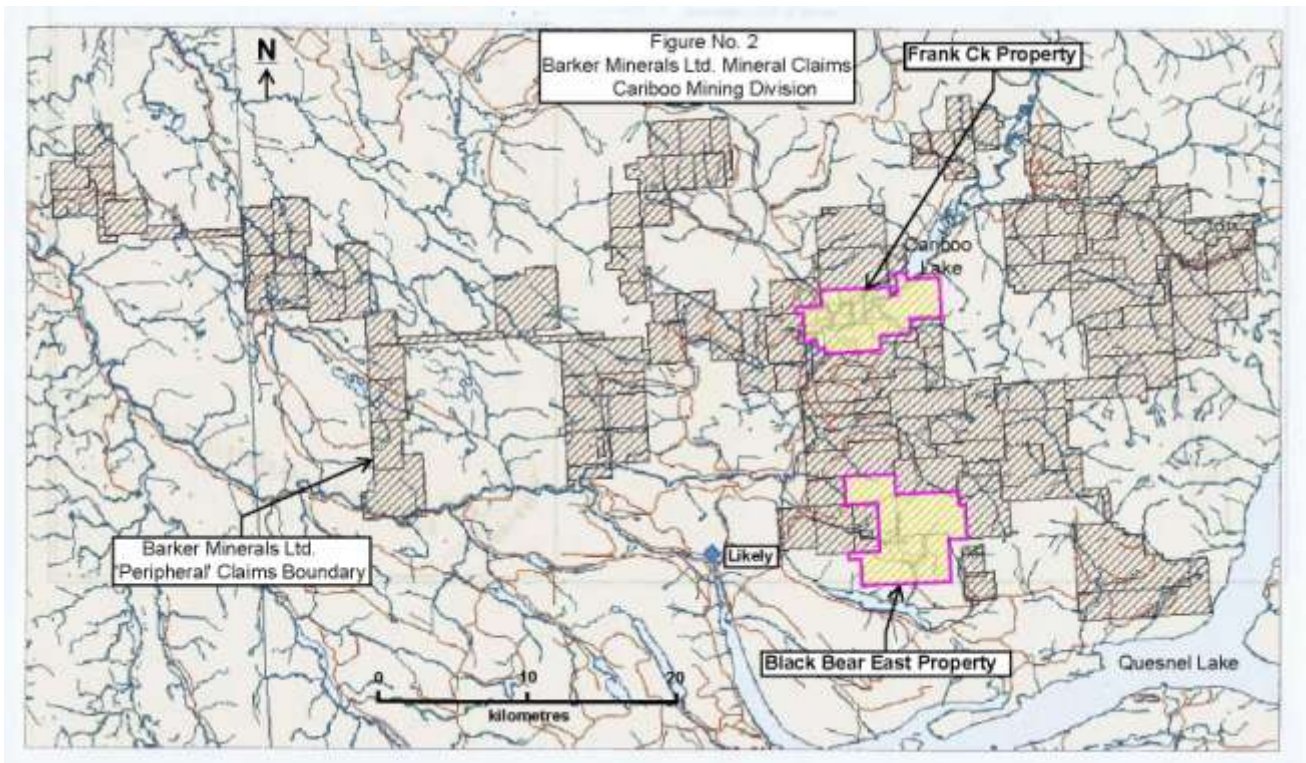


Figure No. 2 Barker Minerals Ltd. Main Property mineral claims.

## 5.0 PHYSIOGRAPHY and ACCESSIBILITY

The following description in *italics*, is after McKinley, 2004:

*The property is situated in the central part of the Quesnel Highland between the eastern edge of the Interior Plateau and the western foothills of the Columbia Mountains. This area contains rounded mountains that are transitional between the rolling plateaus to the west and the rugged Cariboo Mountains to the east. Pleistocene and Recent ice sheets flowed away from the high mountains to the east over these plateaus and down to the southwest (Cariboo River), west (Little River) and northeast (Quesnel Lake), carving U-shaped valleys. The elevation ranges from 700-1650 m.*

*Precipitation in the region is heavy, as rain in the summer and snow in the winter. Drainage is to the west via the Cariboo, Little and Quesnel Rivers to the Fraser River. Quesnel Lake, the main scenic and topographic feature in the region, is a deep, long, forked, glacier-carved lake with an outlet at 725 m elevation. Vegetation is old-growth spruce, fir, pine, hemlock and cedar forest in all but the alpine regions of the higher mountains (mainly above 1400 m elevation). Weldwood has been actively logging fir, spruce and pine in the area.*

Access to the Frank Creek is via gravel logging roads bearing northeast from Likely. The way is: Keithley Creek Road for 19 km, take right branch onto Barkerville road and cross over Cariboo River. Continue north on Barkerville (8400) road for 6 km. Take right branch (sign indicates D Road) to the Frank Creek work area on the east side of Cariboo Lake. The Unlikely Showing and 2014 sample locations on the west side of Cariboo Lake are accessed by the Keithley Creek and Harvey Creek Roads.

Access to the Black Bear East (BBE) property is via gravel logging roads bearing northeast from Likely. The way is: At 2.0 km from Likely, take right branch onto the Spanish Creek (1300) Road toward the Likely Airport. Continue southeast on the 1300 road for 20.0 km. Take left branch (sign indicates BB Road). The BBE property can be accessed from the south by the BB Road and from the east by the Shiny Mineral Road.

## 6.0 HISTORY

Barker Minerals Ltd.' contiguous mineral claim is approximately 80 km by 30 km in size. The history of exploration work done on the numerous mineral prospects over the area is very extensive. This history has been comprehensively described in recent assessment reports by Doyle, L.E. and Turna, R. References for the entire contiguous property are in Appendix D - References.



## 6.1 Frank Creek Property

The Frank Creek property has an extensive work history. A detailed description is provided in assessment reports by Tuma, R., and Doyle, L.E. Below is a summary of the work done by Barker Minerals Ltd. and others.

Old placer workings on the lower portion of Frank Creek suggest placer mining was conducted perhaps since the turn of the 20<sup>th</sup> century and possibly earlier.

From 1980 to 1983, work in the Frank Creek area was done mainly by Canadian Nickel Mining Limited, E & B Explorations Inc., Silver Standard Mines Ltd. and Esso Minerals Canada. Exploration work was mainly reconnaissance in nature, consisting of prospecting, reconnaissance stream sediment and soil sampling and limited mechanical trenching. Streams, soils and rocks were anomalous in gold and base metals, and sulphide mineralization was discovered. Limited follow up work was done.

During 1984 to 1986, prospectors discovered several large massive sulphide boulders on the west bank of Frank Creek. Little or no further exploration was done and the mineral claims were allowed to lapse.

From 1986 to 1996, work was done by Casmiro Resource Corp., Golden Eye Minerals Ltd., Formosa Resources Corp., Annex Exploration Corp. and Rio Algom Exploration Inc. Exploration for massive sulphides gained increasing importance over gold-quartz veins as numerous massive sulphide boulders were found in low areas in the Frank Creek valley. The various mineral claims owners, in turn, conducted geophysical and geochemical sampling surveys and limited trenching in scattered areas.

In 1996, 61 m of percussion drilling was done in 2 holes. These holes were done on the branch D logging road at a hairpin turn just below where Barker Minerals Ltd. would later discover massive sulphides in boulders and bedrock in their Discovery trench in 1999. Both percussion drill holes returned highly anomalous Cu, Pb and Zn. Follow up work was recommended but not done. The mineral claims lapsed in 1999 and Barker Minerals Ltd. staked the Frank claim over this area the same year.

From 1999 to present, Barker Minerals Ltd. has conducted comprehensive exploration for massive sulphide mineralization in targeted locations, mainly in areas designated F1 and F9 where Barker discovered massive sulphides in bedrock. Work has included geophysical and geochemical surveys, trenching and diamond drilling. To date, Barker has completed drilling in 53 holes (11,210 m), in total.

## 6.2 Black Bear Property

The Black Bear property has an extensive work history. A detailed description is provided in assessment reports by Turna, R., and Doyle, L.E. Below is a summary of the historical small-scale mining done at the Providence Mine at Black Bear Creek and work done by Barker Minerals Ltd. and others to date.

The Minister of Mines Annual Report for 1926 for the Black Bear 1-4 claims states that 'many quartz showings', some of 'impressive size' were being handpicked of galena for the silver content. A quartz vein 'at least 50 feet wide' was identified at a falls in Black Bear Creek. Another wide vein was exposed in an open cut at 3,300 foot elevation on the north side of Black Bear Creek about 2 miles up from the mouth. Ten to 15 tons of ore were taken from here in 1926. Two adits were begun in 1926. By 1947 they totaled 190 feet of crosscuts and drifts exploring 3 vein structures; the property name was Providence by this time. In 1948, 5 tons of ore sent to the Trail smelter yielded 319 oz. Ag, 3,294 lb. Pb, 12 lb. Zn.

R.B. Stokes (1972) states that in 1951, 7 tons of handpicked ore from the main vein yielded 1 oz. Au, 683 oz. Ag, 6,401 lb. Pb and 15 lb. Zn. In 1967-68 Plutus Mines Ltd. drove 825 feet of tunnels to explore the 3 main Ag-Pb-bearing quartz veins. Stokes stated that 11 underground diamond drill holes (2,217 feet) were done in 1968 but no record of this was found in the Minister of Mines Annual Reports or Assessment Reports.

From 1972 to 1989, work in the Black Bear Creek area was done by DeKalb Mining Corp., Anglo Canadian Mining Corp., Canadian Nickel Company Ltd., Apex Energy Corp., Clearbrook Mining Ltd., Homestake Mineral Development Company, Ranald Resources Ltd., Malcom Resources Ltd., Priority Ventures Ltd. and independent prospectors. Exploration was for placer gold and quartz vein-related silver and gold. Work consisted of prospecting and reconnaissance rock and stream sediment sampling. Soils were collected over scattered sampling grids. Limited trenching was done. In 1976, DeKalb Mining Corp. completed five diamond drill holes (355 m) in the vicinity of the old Providence adits. In 1989, Priority Ventures Ltd. completed 6 diamond drill holes (294 m), targeting quartz veins on their Otto showing.

From 1996 to present, Barker Minerals Ltd. has done reconnaissance geophysical, geochemical sampling and prospecting intermittently on their Black Bear property on the north side of Black Bear Creek. In 2010, Barker excavated 12 trenches (2,000 metres). In 2012, Barker completed three diamond drill holes (744 m).

## 7.0 GEOLOGY

### 7.1 Regional Geology

The geological descriptions below derive mainly from Struik (1988), Panteleyev et al. (1996) and Payne and Perry (2001).

During the mid-Jurassic the North American continental plate collided with a group of island arcs to the west. Regional deformation and metamorphism are related to these events.

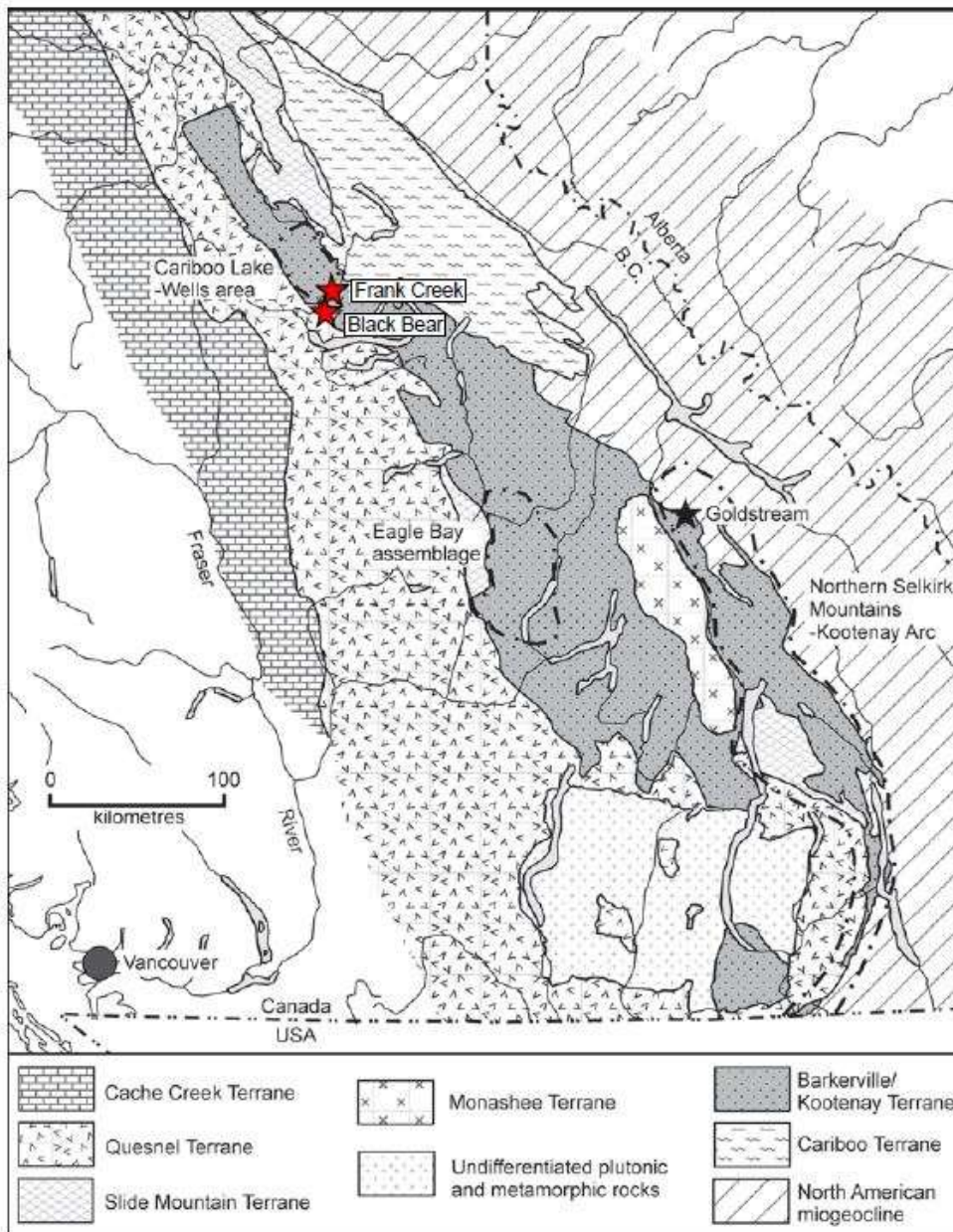


Figure No. 3 Terrane Map of Southern British Columbia. Barker Minerals' properties are indicated by red stars.

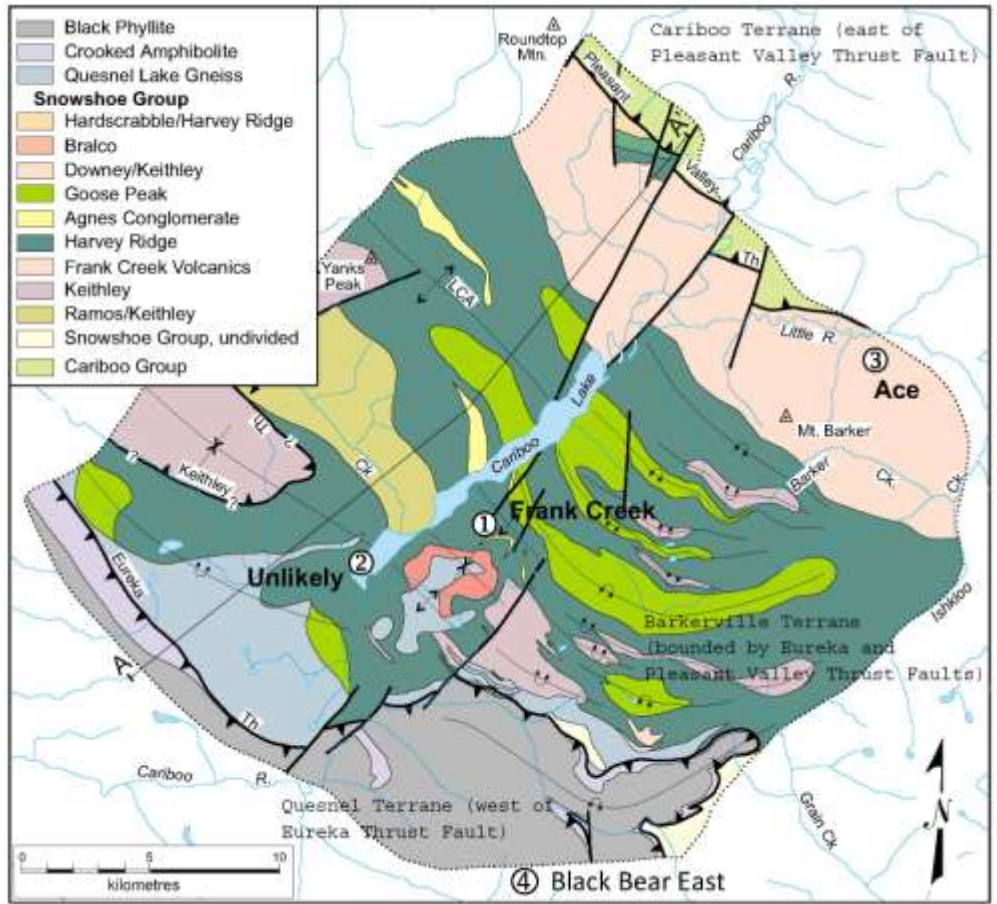


Figure No. 4 Regional Geology (after Ferri, 2002).

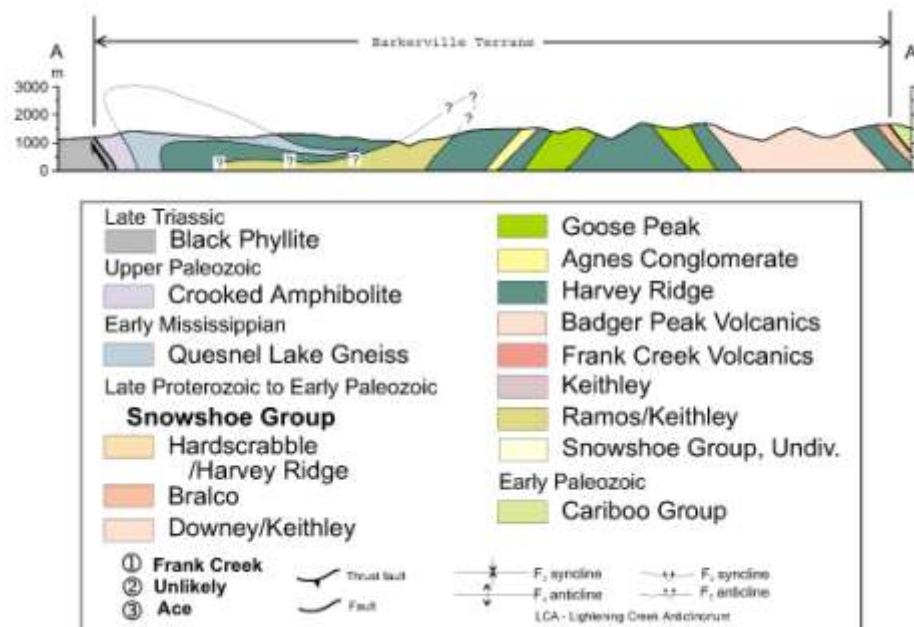


Figure No. 5 Geological Section and Legend (after Ferri, 2002).

### **Quesnel Terrane**

The Late Triassic to Early Jurassic Quesnel Terrane was accreted to the North American continent, in part by subduction and in part by obduction. The Eureka Thrust fault marks the boundary between the Quesnel and Barkerville terranes. The terrane is partly submarine and partly subaerial, consisting of volcanic and volcanoclastic rocks and co-magmatic intrusions, with minor carbonate lenses and related sedimentary rocks.

The Quesnel Trough is a well-mineralized region typical of other Late Triassic to Early Jurassic volcano-plutonic island arcs in the Cordillera. It hosts a wide variety of mineral deposits. The principal recent exploration and economic development targets in the central Quesnel belt are alkaline intrusion-related porphyry copper-gold deposits and gold-bearing propylitic alteration zones formed in volcanic rocks peripheral to some of the intrusions. Other important targets are auriferous quartz veins in the black phyllite metasedimentary succession. The veins in some black phyllite members have potential to be mined as large tonnage, low-grade deposits. Tertiary rocks are mineralized with copper and gold. Antimony-arsenic and mercury mineralization in some apparently low temperature quartz-calcite veins indicated the potential for epithermal deposits. Placer mining for gold, said to occur together with platinum, has been of major historical and economic importance.

### **Slide Mountain Terrane**

Rocks of the Devonian to Late Triassic Slide Mountain Terrane were partly obducted, partly subducted during collision of an oceanic plate with the continent. Small slices of mainly mafic volcanic rocks and ultramafic rocks of the Slide Mountain Terrane occur in and parallel to the Eureka thrust. Minor lithologies include chert, meta-siltstone and argillite.

The Crooked Amphibolite, considered to likely be a part of the Slide Mountain Terrane, includes three major constituent rock types: greenstone, metagabbro and meta-ultramafite. North of Quesnel Lake, the map units consist of mafic metavolcanics, amphibolite, chlorite schist, serpentinite, ultramafic rocks and pillow lavas.

### **Barkerville Terrane**

The Barkerville Terrane is made up of the Snowshoe Group and Quesnel Lake gneiss. The Snowshoe Group rocks are Upper Proterozoic to Upper Devonian metasediments, considered correlative in age with the Eagle Bay Formation in the Kootenay Terrane to the south. The Snowshoe Group rocks are dominated by varieties of grit, quartzite, pelite, limestone and volcanoclastic rocks.

### **Cariboo Terrane**

The northeastern part of Barker Minerals' 'Peripheral' claim group is underlain by Precambrian to Permo-Triassic marine peri-cratonic sedimentary strata of the Cariboo terrane. The Cariboo Terrane consists mainly of limestone and dolomite with lesser siliceous, clastic, sedimentary rocks and argillite.

## 7.2 Local Geology at Frank Creek

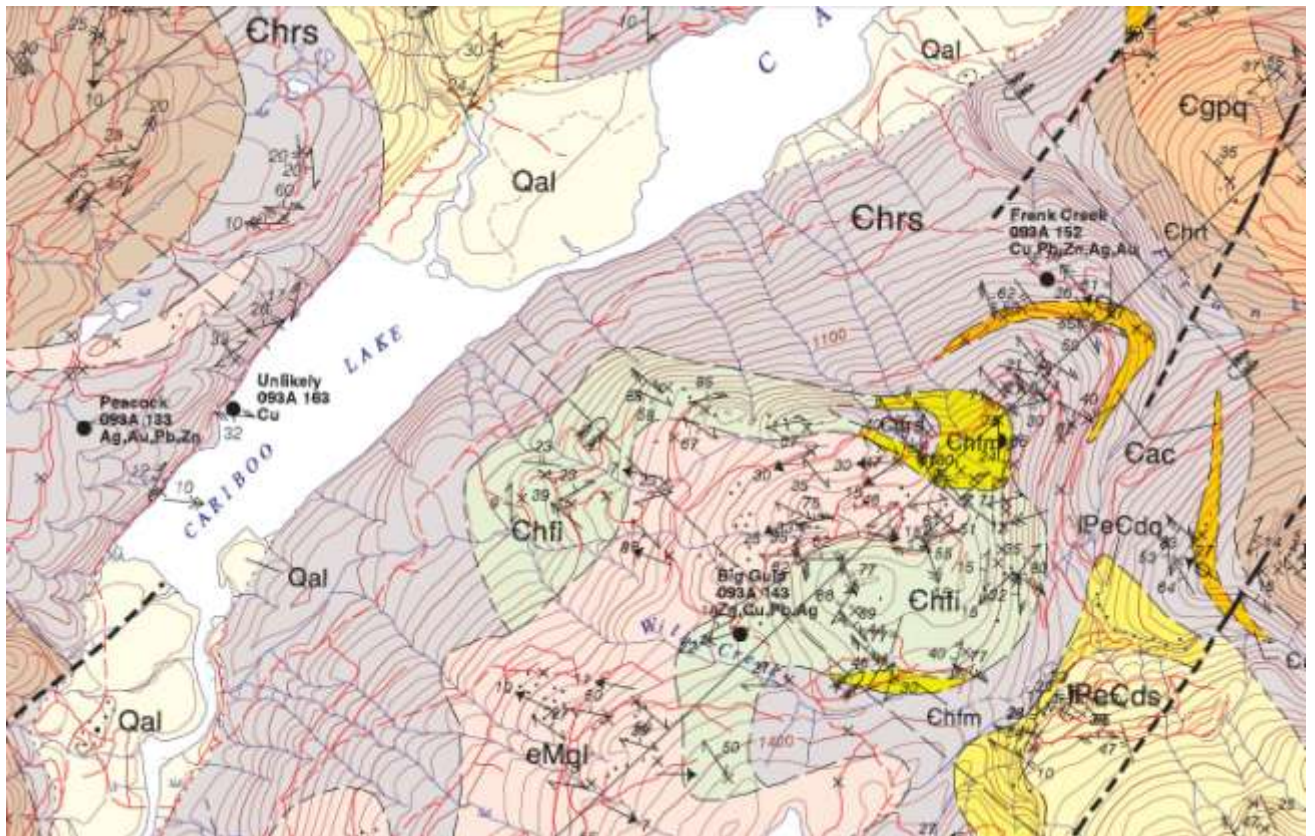


Figure No. 6 Geology of Frank Creek area, after Ferri & O'Brien, 2003. Chrs = Harveys Ridge phyllite and sedimentary rocks, Cac = Agnes sedimentary rocks, Chfm and Chfi = Frank Creek metavolcanics, eMql = Quesnel Lake granite and granodiorite. The Minfile showing Frank Creek, Big Gulp and Unlikely are owned by Barker Minerals Ltd. The black spot indicating the Frank Creek Minfile is at the location of the Discovery Trench. Cariboo Lake is approximately 1 km across in a NW-SE direction. Overturned anticlines and synclines are indicated. Overturned lava pillows with tops toward the east are indicated in unit Chfm. Work by Barker Minerals has indicated some of the phyllites of unit Chrs in the Frank Creek work area are felsic volcanoclastics.

### 7.3 Local Geology at Black Bear East

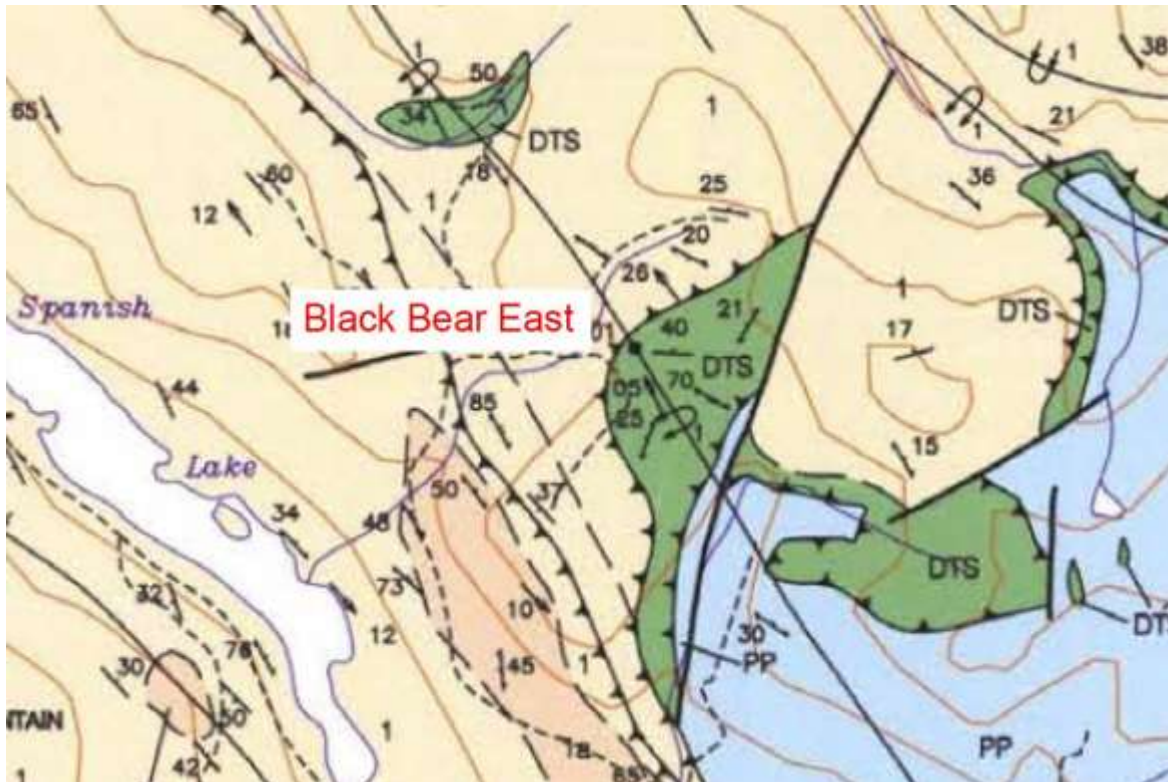


Figure No. 7 Geology of Black Bear East area, after Panteleyev et. al., 1996. DTS = Crooked River amphibolite. 1 = Nicola Group black phyllites, PP = Proterozoic schist. The area is dominated by dark grey to black phyllites and greenschist-altered amphibolite which tends to occupy splays of the Eureka thrust fault.

## 8.0 EXPLORATION PROGRAM

### 8.1 Sampling Method and Approach

At Black Bear East, soils were collected from the flanks of logging roadside and placed into specialized paper sample bags. A shovel was used to recover soil from a depth of 20 cm with intent to collect from the B soil horizon where possible. Where a B-horizon was not attainable, sample mediums did include A and C horizons and regolith. GPS waypoints was taken at intermittent sample locations and the sample location was flagged with tape. At Frank Creek, the soils were collected from as deep within the test holes as possible.

The soil samples from Black Bear East were sent to Activation Laboratories Ltd. at Kamloops B.C. for base and precious metals analysis. The lab analytical packages used were *Code 1C-OES-Kamloops Fire Assay ICPOES* (fire-assay with ICP OES finish)

and Code UT-1-Kamloops Aqua Regia ICP/MS (aqua regia digest with ICP MS finish). These are identified as FA-ICP and AR-MS, respectively, in Table No. 1 Black Bear East Laboratory Geochemical Results.

Samples from the Frank Creek test holes were analyzed for multiple elements using the Niton XL3t handheld X-ray fluorescence analyzer from Thermo Scientific Inc. Further information on this instrument is at the Niton website <http://www.niton.com/en/niton-analyzers-products/xl3/xl3t>. An overview of sample analysis using energy dispersive X-ray fluorescence (EDXRF), adapted from the Niton website, is in Appendix C.

## **8.2 Economic Targets and Work Done**

### **Frank Creek**

Barker Minerals is exploring the Frank Creek Property for volcanogenic massive sulphides deposits.

Nineteen soil samples were collected from the 19 test holes excavated to a depth of approximately 3 metres by backhoe in 2013 (see Figure Nos. 11 & 12). The purpose was to collect soil samples as close to bedrock as possible. Several rock samples were also collected, from Hole 19 and in the F9 main drilling area of 2008. The soils results indicate highly anomalous Zn values and anomalous Cu, Pb and As. The distribution of these anomalous values from Holes 1 to 18 suggest a possible width of at least 250 m for the source cause. A 1m x 1m oxidized massive sulphide float boulder in Hole 19 was highly anomalous in Cu and Zn (see sample nos. 3118 and 3119 in Figure No. 12 and Table No. 2). Approximately 400 m to the east, sample nos. 3112 and 3113 returned highly anomalous values in Cu, Zn, Pb and As (see Figure No. 12 and Table No. 2). It is considered that the line of the 19 test holes traverse a massive sulphide trend from the F9 drilling area of 2008.

The 2013 test hole nos. 1 to 10 and several holes and trenches from previous years' work, approximately 60 south and 300 m southeast, were filled in 2013 (see Figure No. 11).

### **Black Bear East**

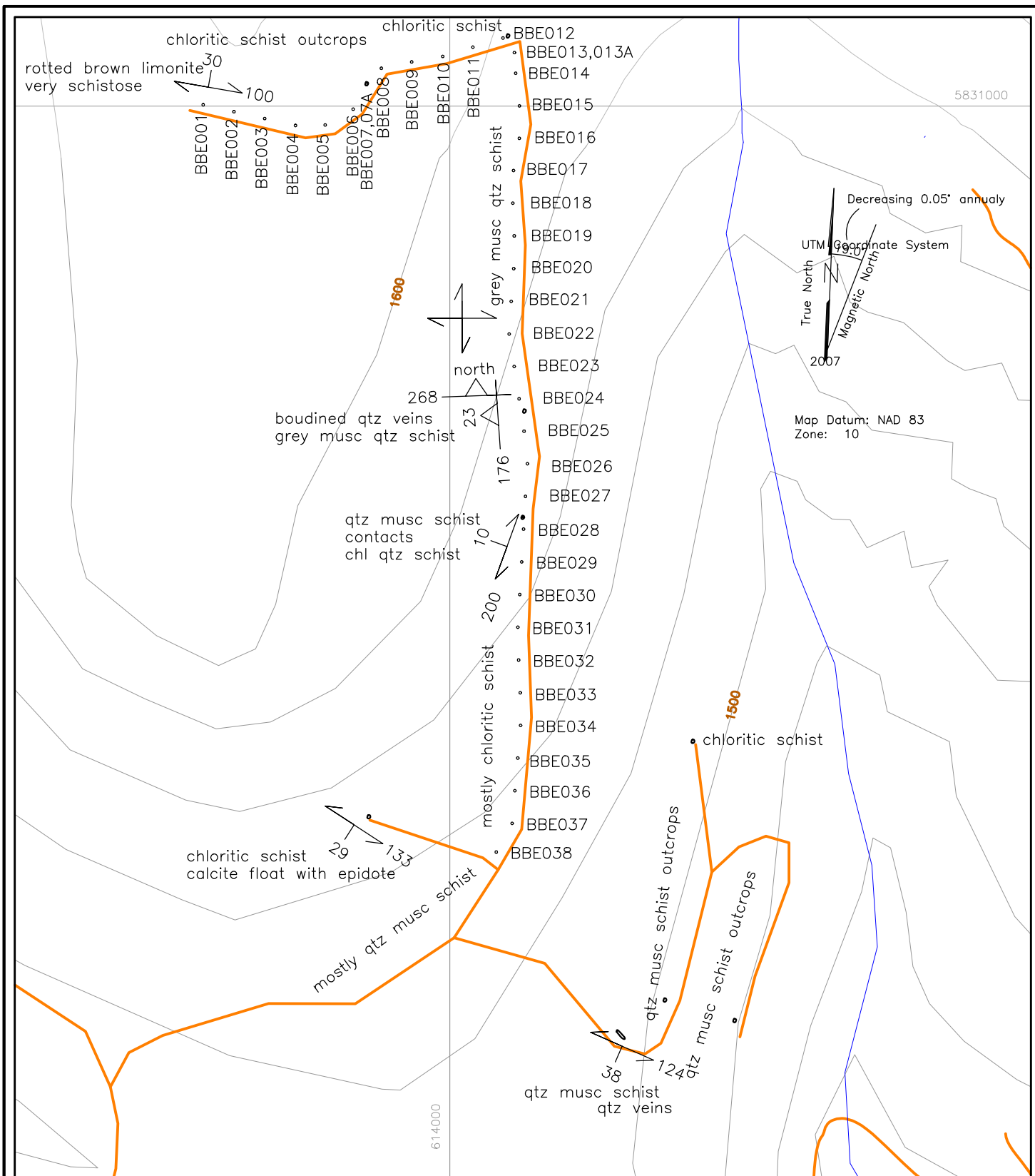
Barker Minerals is exploring the Black Bear East property for Au-quartz veins and polymetallic veins hosted in sedimentary rocks. The possibility of stratigraphically controlled disseminated gold mineralization (similar to the Spanish Mountain Gold Ltd. project 5.0 km to the southwest) is also considered.

Thirty-eight soil samples were collected along a road traverse. Anomalous gold (up to 49 ppb) and silver (up to 1.21 ppm) occurred in several of the samples.



## **9.0 CONCLUSIONS and RECOMMENDATIONS**

The new work described in this report was too limited in scope to allow general conclusions to be drawn on that work alone. Exploration on Barker Minerals Ltd.'s properties will continue in accordance with overall results and recommendations made in recent past work.



**LEGEND**

- 1000 Topographic Contour & Elevation  
Contour interval 20 metres
- Creek, Road

Scale 1:5,000  
metres



**BARKER MINERALS LTD.**

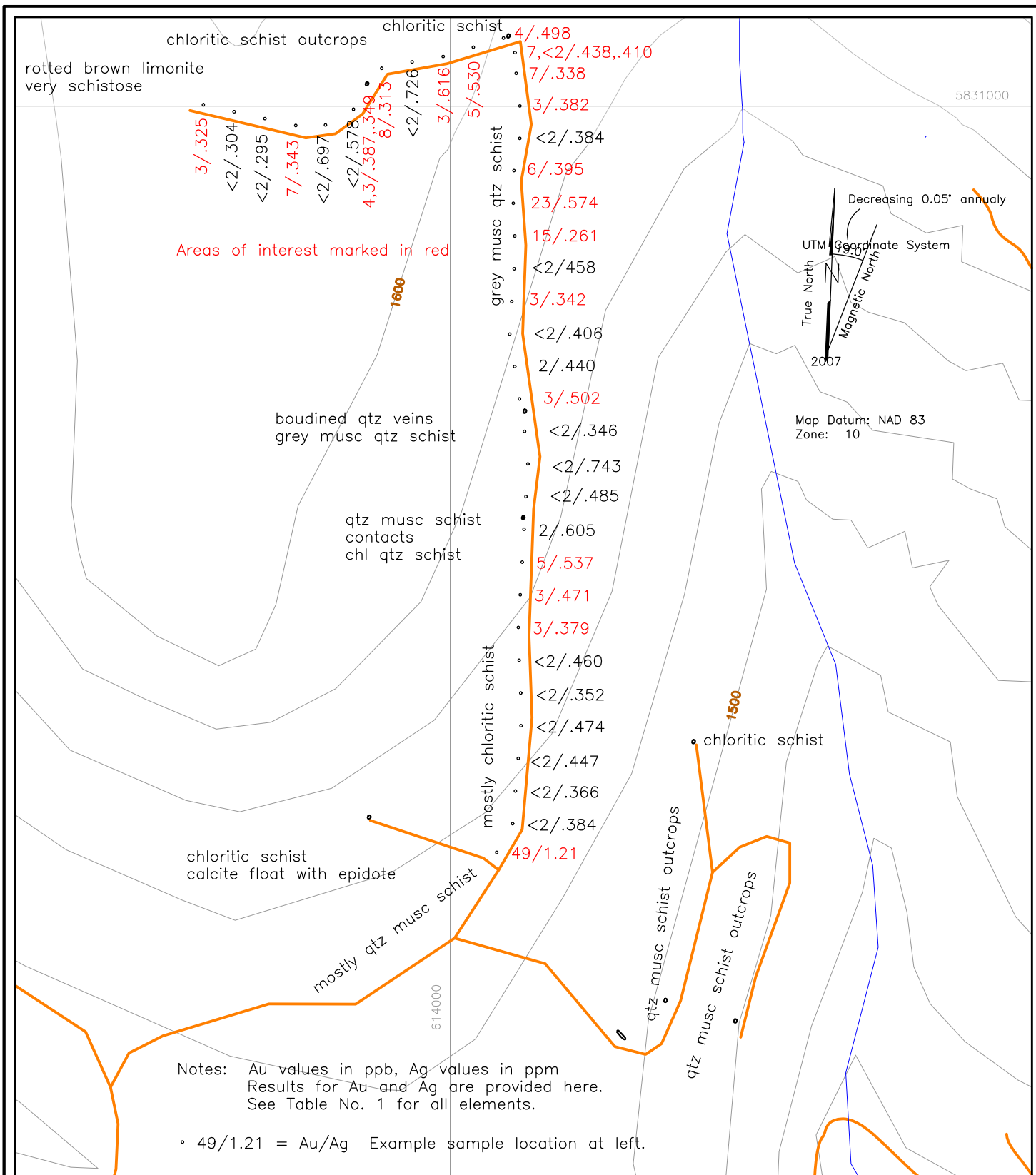
**BLACK BEAR EAST**  
**Soil Sample Numbers**  
**and Geology**

Cariboo Mining Division, B.C.

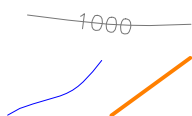
Date: Dec. 4, 2014

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Fig.No. 8



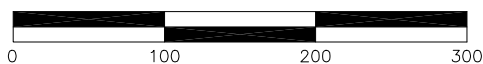
**LEGEND**



Topographic Contour & Elevation  
Contour interval 20 metres

Creek, Road

Scale 1:5,000  
metres



**BARKER MINERALS LTD.**

**BLACK BEAR EAST**  
**Au and Ag in Soils**

Cariboo Mining Division, B.C.

Date: Dec. 4, 2014

Drawn by: RT

Fig.No. 9

Activation Laboratories Ltd. Report: A13-11486 rev 1

Analyte Symbol	Au	Pd	Pt	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	5	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1
Analysis Method	FA-ICP	FA-ICP	FA-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS

BBE001	3	<5	<5	8.8	0.2	<1	0.003	0.47	1.29	0.04	0.22	0.04	1.3	44	40.7	390	3.85	8.5	17.8	17.7	46.1	5.83	<0.1	8.1
BBE002	<2	<5	21	14.1	0.2	<1	0.002	0.64	1.76	0.04	0.25	0.02	2.4	42	56.3	356	4.44	9.2	23.0	18.2	58.7	5.95	<0.1	10.9
BBE003	<2	<5	<5	18.7	0.4	<1	0.003	0.93	2.27	0.05	0.22	0.06	3.1	48	68.1	528	4.47	15.7	35.0	34.9	71.8	5.67	<0.1	10.8
BBE004	7	12	<5	14.8	0.3	<1	0.002	0.85	1.71	0.05	0.21	0.08	1.6	43	59.4	360	3.43	11.4	29.5	27.2	57.3	4.84	<0.1	9.0
BBE005	<2	<5	<5	17.2	0.4	<1	0.003	1.19	2.37	0.03	0.97	0.15	2.5	79	60.3	806	4.84	20.8	27.7	42.2	67.6	7.51	<0.1	9.3
BBE006	<2	<5	<5	13.7	0.3	<1	0.003	0.87	1.97	0.03	0.54	0.30	2.7	72	42.5	1100	4.45	23.8	20.1	90.8	52.8	7.06	<0.1	10.2
BBE007	4	<5	26	16.1	0.3	<1	0.004	0.77	1.83	0.04	0.25	0.12	5.8	42	47.2	713	4.43	22.3	43.4	197	58.4	4.51	<0.1	28.5
BBE007A	3	<5	<5	1.9	0.2	<1	0.002	0.49	0.31	<0.01	0.19	0.53	32.3	75	11.1	5320	21.0	50.7	261	44.5	72.2	0.58	0.1	9.3
BBE008	8	<5	12	16.5	0.6	<1	0.004	0.42	1.81	0.04	0.33	0.47	1.9	31	36.4	439	3.99	16.1	31.3	125	57.5	4.80	<0.1	35.8
BBE009	<2	<5	<5	17.1	0.6	<1	0.005	0.40	1.92	0.04	0.31	0.32	2.0	32	33.1	447	3.57	16.0	23.5	135	59.4	5.78	<0.1	35.6
BBE010	3	<5	<5	17.8	0.3	<1	0.003	0.56	1.94	0.04	0.25	0.04	1.9	30	37.7	327	3.78	11.4	26.1	29.1	68.9	5.38	<0.1	38.0
BBE011	5	<5	<5	13.3	0.4	<1	0.003	0.47	1.60	0.05	0.26	0.07	0.5	30	35.1	381	3.32	10.8	22.3	36.5	61.9	5.39	<0.1	23.3
BBE012	4	8	<5	15.4	0.4	<1	0.002	0.82	1.94	0.03	0.24	0.15	2.5	58	48.9	1190	4.38	17.9	28.2	53.3	68.7	6.41	<0.1	14.2
BBE013	7	13	13	10.6	0.4	<1	0.002	0.64	1.37	0.02	0.12	0.11	9.8	22	74.5	1980	7.44	34.4	84.0	131	56.1	2.48	<0.1	12.0
BBE013A	<2	<5	27	2.9	0.9	<1	0.002	0.25	1.10	<0.01	0.10	0.15	28.0	215	36.0	7990	27.2	75.8	138	105	133	0.96	0.2	16.4
BBE014	7	5	8	11.6	0.4	<1	0.003	1.04	1.41	0.03	0.42	0.24	6.4	33	44.3	1860	5.52	34.6	176	35.1	76.5	3.29	0.1	22.1
BBE015	3	<5	13	9.8	0.2	<1	0.003	0.34	1.00	0.03	0.28	0.25	1.8	15	24.4	780	3.36	17.5	37.3	44.2	67.0	2.48	<0.1	44.0
BBE016	<2	6	15	13.5	0.4	<1	0.004	0.50	1.48	0.05	0.30	0.31	1.8	24	26.0	536	3.48	14.2	29.4	28.3	80.1	4.43	0.1	54.0
BBE017	6	<5	<5	17.1	0.3	<1	0.003	0.50	1.46	0.05	0.40	0.20	3.0	34	34.0	285	3.75	14.4	31.2	33.0	110	4.71	<0.1	18.3
BBE018	23	<5	<5	15.4	0.2	<1	0.001	0.67	1.29	0.04	0.20	0.08	1.7	21	25.1	349	3.10	11.1	27.8	17.1	76.9	3.74	0.1	13.8
BBE019	15	<5	<5	7.8	0.2	<1	0.001	0.32	0.98	0.03	0.29	0.33	1.1	16	17.7	682	2.32	10.9	22.8	26.4	53.9	2.67	<0.1	17.1
BBE020	<2	<5	<5	4.7	0.3	<1	0.001	0.27	0.89	0.02	0.28	0.14	4.2	24	32.6	2020	6.76	19.0	61.2	48.7	63.6	2.15	0.1	92.7
BBE021	3	<5	18	9.9	0.2	<1	0.001	0.48	1.12	0.04	0.37	0.12	1.9	12	21.3	1290	4.97	25.5	55.7	53.6	90.5	2.92	0.1	11.1

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Black Bear East Laboratory Geochemical Results

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Analyte Symbol	Au	Pd	Pt	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	5	5	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	0.5	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1
Analysis Method	FA-ICP	FA-ICP	FA-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
BBE022	<2	<5	5	12.0	0.3	<1	0.001	0.35	1.32	0.05	0.65	0.26	1.4	24	24.9	879	3.93	18.0	30.9	37.4	103	4.27	0.1	15.9
BBE023	2	8	6	8.4	0.3	<1	0.002	0.32	0.97	0.04	0.40	0.18	2.1	12	17.1	1170	4.72	20.6	53.3	44.7	109	2.19	0.1	17.5
BBE024	3	8	<5	4.3	0.3	<1	0.003	0.20	0.68	0.05	0.75	0.12	1.3	9	11.1	154	2.75	10.4	26.6	18.1	176	1.41	0.1	5.6
BBE025	<2	<5	<5	11.4	0.2	<1	0.002	0.56	1.17	0.03	0.33	0.29	2.2	12	26.2	830	3.13	16.3	52.7	35.6	88.8	2.88	0.1	13.8
BBE026	<2	5	21	22.6	0.5	<1	0.003	0.68	2.00	0.07	0.26	0.22	1.9	37	50.9	441	4.27	22.4	49.7	32.0	80.0	5.01	<0.1	13.2
BBE027	<2	<5	17	18.8	0.5	<1	0.002	0.73	1.78	0.07	0.33	0.28	2.7	54	60.0	644	4.72	23.5	49.1	34.3	104	5.80	0.1	16.9
BBE028	2	<5	<5	24.9	0.8	<1	0.003	0.68	2.28	0.20	0.36	0.16	3.0	47	54.4	801	6.91	27.1	48.0	43.0	99.7	6.23	0.1	28.4
BBE029	5	<5	8	21.3	0.5	<1	0.003	0.70	2.21	0.11	0.47	0.17	1.8	26	38.1	421	3.94	18.8	74.6	38.1	84.8	4.89	0.2	17.6
BBE030	3	<5	13	17.5	0.3	<1	0.002	0.58	1.59	0.07	0.34	0.19	1.2	25	27.1	336	3.68	12.8	25.0	19.0	66.5	5.03	0.1	16.6
BBE031	3	<5	<5	16.5	0.1	<1	<0.001	0.85	1.53	0.10	0.21	0.18	1.6	15	23.2	580	3.57	18.9	35.2	39.1	67.4	4.66	0.1	4.9
BBE032	<2	<5	<5	8.7	0.3	<1	0.003	0.27	1.15	0.08	0.47	0.13	0.8	34	20.1	323	3.88	8.0	16.8	18.9	56.7	5.94	0.1	13.6
BBE033	<2	<5	<5	9.8	0.2	<1	0.002	0.61	1.27	0.03	0.40	0.31	1.9	74	33.0	547	3.74	13.8	25.6	21.6	46.0	7.64	<0.1	12.1
BBE034	<2	<5	<5	11.4	0.2	<1	0.003	0.23	1.16	0.04	0.48	0.30	0.3	30	16.8	629	3.07	15.0	13.9	13.7	46.8	5.35	<0.1	6.9
BBE035	<2	<5	<5	8.0	0.1	<1	0.002	0.47	1.10	0.06	0.19	0.05	0.5	24	18.9	433	2.93	11.9	20.9	18.2	57.2	5.14	<0.1	4.6
BBE036	<2	<5	<5	6.0	<0.1	<1	<0.001	0.35	0.78	0.02	0.28	0.07	0.6	12	10.7	328	4.20	12.0	28.7	25.9	55.5	3.42	<0.1	34.9
BBE037	<2	<5	10	10.4	0.4	<1	0.002	0.18	1.23	0.03	0.34	0.35	0.5	22	15.6	3060	3.13	46.1	16.2	22.4	65.2	4.68	0.1	9.4
BBE038	49	<5	11	10.0	0.4	<1	0.002	0.38	1.10	0.04	0.48	0.25	1.3	20	22.2	769	3.89	15.8	33.2	24.5	118	3.14	0.1	65.1

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Analyte Symbol	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	1	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS

BBE001	<0.1	6.4	3.7	2.83	<0.1	0.3	1.39	0.325	0.10	<0.02	0.28	0.39	<0.02	0.89	44	18.5	37.9	4.4	16.6	2.9	0.5	2.0	0.2	0.9
BBE002	<0.1	7.2	3.3	3.20	0.1	0.5	1.61	0.304	0.14	<0.02	0.22	0.46	<0.02	0.86	42	19.9	40.5	4.7	17.5	3.1	0.6	2.2	0.2	1.0
BBE003	<0.1	7.0	4.2	7.13	0.5	0.3	1.43	0.295	0.19	0.02	0.19	0.39	<0.02	1.22	52	19.3	44.6	4.7	18.0	3.3	0.7	2.8	0.4	2.0
BBE004	<0.1	8.5	4.8	3.69	<0.1	<0.1	1.40	0.343	0.11	<0.02	0.16	0.26	<0.02	1.22	59	20.0	41.1	4.6	17.3	2.9	0.5	2.2	0.3	1.1
BBE005	0.1	7.4	5.4	5.06	<0.1	0.3	1.42	0.697	0.19	0.03	0.42	0.28	<0.02	1.08	81	12.3	26.1	2.9	11.2	2.1	0.4	1.7	0.2	1.3
BBE006	0.2	7.6	6.9	4.35	<0.1	0.3	3.96	0.578	0.20	0.03	0.36	0.42	<0.02	1.04	65	11.3	23.8	2.7	10.2	1.8	0.4	1.5	0.2	1.1
BBE007	0.3	4.7	4.4	7.41	0.7	<0.1	1.90	0.387	0.14	0.03	0.09	0.70	<0.02	0.95	44	18.9	55.9	4.7	18.7	3.5	0.8	2.9	0.4	1.9
BBE007A	0.2	0.5	4.6	17.5	0.5	<0.1	1.28	0.349	0.28	0.03	<0.05	0.17	<0.02	0.12	78	3.4	8.55	1.2	6.39	2.4	1.0	3.3	0.5	3.4
BBE008	0.6	6.8	10.0	10.9	0.5	0.4	1.76	0.313	0.33	0.02	0.30	0.58	<0.02	0.93	51	22.3	56.6	5.3	19.9	3.7	0.8	3.3	0.4	2.4
BBE009	0.2	7.0	8.1	8.74	0.5	0.6	1.60	0.726	0.39	0.02	0.34	0.70	0.05	0.97	67	22.0	66.3	5.1	19.0	3.4	0.7	2.9	0.4	2.2
BBE010	0.1	7.5	3.7	4.19	0.3	0.4	1.47	0.616	0.23	0.02	0.30	1.02	<0.02	1.09	47	22.8	51.0	5.4	20.0	3.5	0.7	2.7	0.3	1.4
BBE011	0.2	7.6	4.8	4.59	<0.1	0.2	1.44	0.530	0.30	<0.02	0.30	0.82	<0.02	1.15	61	20.1	43.9	4.6	16.7	2.9	0.6	2.3	0.3	1.4
BBE012	0.1	6.0	5.4	5.58	<0.1	0.3	1.48	0.498	0.35	0.03	0.47	0.51	<0.02	1.13	63	14.7	31.0	3.3	12.3	2.3	0.5	2.0	0.3	1.5
BBE013	0.4	3.1	3.5	9.27	0.7	<0.1	2.61	0.438	0.49	<0.02	<0.05	0.48	<0.02	0.80	46	11.2	29.4	2.9	11.4	2.4	0.8	2.6	0.4	2.3
BBE013A	0.8	1.1	4.2	20.7	1.7	<0.1	2.90	0.410	1.71	0.04	<0.05	0.62	<0.02	0.31	87	13.5	47.1	3.8	16.2	4.1	2.0	5.1	0.8	4.7
BBE014	0.2	5.6	9.9	12.2	0.4	<0.1	1.65	0.338	0.81	0.02	0.12	0.42	<0.02	1.10	47	16.1	40.5	4.0	15.5	3.2	0.9	3.1	0.5	2.8
BBE015	<0.1	7.0	7.2	8.35	0.8	<0.1	1.27	0.382	0.31	<0.02	<0.05	3.91	<0.02	1.66	35	19.0	44.8	4.5	16.8	3.0	0.7	2.8	0.4	1.9
BBE016	<0.1	12.2	11.6	8.21	0.5	0.2	1.62	0.384	0.32	0.02	0.19	2.06	<0.02	1.17	67	22.1	49.8	5.0	19.1	3.4	0.7	2.9	0.4	1.9
BBE017	<0.1	15.1	8.6	8.13	0.4	0.7	1.44	0.395	0.20	0.02	0.25	0.87	<0.02	2.06	52	21.8	50.4	5.0	18.9	3.5	0.7	2.9	0.4	2.0
BBE018	<0.1	8.3	4.7	4.27	0.7	<0.1	1.19	0.574	0.13	<0.02	0.29	0.47	<0.02	0.63	33	27.0	61.6	6.2	22.3	3.8	0.7	3.0	0.3	1.4
BBE019	0.2	8.5	7.6	6.59	0.4	<0.1	0.90	0.261	0.23	<0.02	<0.05	0.37	<0.02	1.10	36	12.9	28.9	3.0	11.3	2.0	0.5	1.8	0.3	1.4
BBE020	0.3	4.6	6.3	14.8	1.1	<0.1	3.81	0.458	0.35	0.04	<0.05	0.78	<0.02	0.97	48	23.0	118	5.5	20.6	3.8	0.8	3.6	0.5	3.3
BBE021	<0.1	5.2	6.6	10.2	0.6	<0.1	0.74	0.342	0.24	<0.02	<0.05	0.36	<0.02	0.77	34	31.7	85.4	7.8	29.9	5.3	1.0	4.5	0.6	3.0

Table No. 1

Black Bear East Laboratory Geochemical Results

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Analyte Symbol	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	1	0.5	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
BBE022	<0.1	14.4	8.6	8.72	0.2	0.2	1.57	0.406	0.35	<0.02	0.25	0.66	<0.02	2.01	57	27.7	64.8	6.4	23.4	4.0	0.8	3.5	0.5	2.4
BBE023	0.3	9.1	8.1	11.8	0.7	<0.1	1.15	0.440	0.39	<0.02	0.06	0.62	<0.02	2.13	43	34.1	71.0	7.8	28.7	5.0	1.1	4.3	0.6	3.1
BBE024	<0.1	12.1	9.9	4.59	0.3	<0.1	0.89	0.502	0.27	<0.02	0.16	0.45	<0.02	4.00	42	40.1	81.1	9.2	33.2	5.5	0.9	4.0	0.4	1.7
BBE025	<0.1	4.0	10.0	13.1	1.0	<0.1	0.69	0.346	0.46	<0.02	0.05	0.56	<0.02	2.38	55	33.5	60.9	7.7	28.5	4.8	1.0	4.0	0.5	2.8
BBE026	0.3	10.0	14.0	6.74	0.2	0.9	0.95	0.743	0.25	<0.02	0.24	0.60	<0.02	3.58	96	19.0	58.8	4.5	17.3	3.1	0.7	2.7	0.4	1.9
BBE027	<0.1	13.0	13.6	7.54	<0.1	0.5	1.04	0.485	0.23	0.02	0.27	2.98	0.02	4.30	89	20.4	44.1	4.7	17.3	3.1	0.7	2.7	0.3	1.9
BBE028	0.1	34.7	14.4	14.1	0.2	1.0	1.20	0.605	0.23	0.04	0.50	3.21	0.02	6.12	113	28.2	141	6.5	24.2	4.5	0.9	4.5	0.6	3.4
BBE029	0.4	14.2	12.5	19.4	0.2	0.2	0.79	0.537	0.10	0.03	0.22	0.40	<0.02	2.31	86	49.5	310	12.4	46.3	8.2	1.6	7.6	1.0	5.3
BBE030	<0.1	15.6	14.7	9.01	<0.1	0.4	0.62	0.471	0.26	<0.02	0.24	0.27	<0.02	1.28	77	26.2	71.9	6.1	23.0	3.9	0.8	3.2	0.4	2.2
BBE031	<0.1	11.1	11.8	9.30	<0.1	<0.1	0.62	0.379	0.08	<0.02	<0.05	0.09	<0.02	1.19	42	33.1	88.6	7.8	29.2	5.0	1.0	4.1	0.5	2.5
BBE032	<0.1	18.1	12.1	4.74	<0.1	0.9	0.95	0.460	0.24	<0.02	0.37	0.25	<0.02	1.19	59	20.3	62.2	4.6	17.0	2.9	0.6	2.5	0.3	1.4
BBE033	<0.1	6.2	19.8	6.44	<0.1	0.3	0.85	0.352	0.16	0.02	0.47	0.25	<0.02	0.80	53	21.3	37.4	4.8	18.0	3.1	0.7	2.6	0.3	1.7
BBE034	<0.1	11.8	20.9	5.84	<0.1	0.2	0.86	0.474	0.15	<0.02	0.44	0.28	<0.02	1.09	66	24.3	43.7	5.4	19.9	3.3	0.6	2.6	0.3	1.6
BBE035	<0.1	12.5	6.0	3.90	<0.1	0.2	0.65	0.447	0.10	<0.02	0.58	0.30	<0.02	1.14	48	23.5	51.5	5.4	19.9	3.4	0.7	2.7	0.3	1.4
BBE036	<0.1	3.5	5.2	2.84	<0.1	0.2	1.87	0.366	0.06	<0.02	0.08	0.40	<0.02	0.40	16	28.5	55.7	6.3	22.9	3.7	0.7	2.8	0.3	1.2
BBE037	<0.1	10.2	27.5	15.3	<0.1	0.2	0.91	0.384	0.51	0.02	0.33	0.21	<0.02	1.07	108	38.3	41.0	7.6	28.1	4.6	1.0	4.3	0.6	3.1
BBE038	<0.1	7.3	15.0	7.66	0.2	<0.1	0.81	1.21	0.33	0.03	3.94	0.71	<0.02	1.18	46	26.2	64.9	5.9	21.6	3.7	0.8	3.1	0.4	2.1

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Analyte Symbol	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg	Cu	Pb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	%
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1	10	0.005	0.01	0.01
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2

BBE001	0.1	0.3	<0.1	0.2	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.03	10.1	0.9	0.5	20			
BBE002	0.2	0.4	<0.1	0.3	<0.1	<0.1	<0.05	<0.1	<0.001	23	0.03	13.0	3.8	0.7	30			
BBE003	0.3	0.9	0.1	0.9	0.1	<0.1	<0.05	<0.1	<0.001	<5	0.04	15.3	3.5	0.9	40			
BBE004	0.2	0.4	<0.1	0.3	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.04	13.0	1.1	0.6	20			
BBE005	0.2	0.6	<0.1	0.5	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.03	18.7	0.7	0.7	40			
BBE006	0.2	0.5	<0.1	0.5	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.03	21.8	0.8	0.6	30			
BBE007	0.3	0.9	0.1	0.9	0.1	<0.1	<0.05	<0.1	0.001	<5	0.03	20.8	4.8	0.7	30			
BBE007A	0.7	2.1	0.3	1.8	0.3	<0.1	<0.05	<0.1	<0.001	7	<0.02	3.63	0.6	<0.1	50			
BBE008	0.4	1.2	0.2	1.1	0.2	<0.1	<0.05	<0.1	<0.001	<5	0.03	26.2	2.0	1.4	50			
BBE009	0.4	1.1	0.2	0.9	0.1	<0.1	<0.05	<0.1	<0.001	<5	0.07	23.7	2.9	1.2	40			
BBE010	0.2	0.5	<0.1	0.3	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.06	19.3	4.5	0.9	30			
BBE011	0.2	0.5	<0.1	0.4	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.06	16.8	0.6	0.9	30			
BBE012	0.3	0.7	0.1	0.6	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.05	18.3	0.7	1.0	40			
BBE013	0.4	1.2	0.2	1.1	0.2	<0.1	<0.05	<0.1	<0.001	<5	0.03	14.9	2.1	0.9	50			
BBE013A	0.9	2.6	0.4	2.3	0.4	<0.1	<0.05	<0.1	<0.001	6	0.05	26.1	3.0	1.1	100			
BBE014	0.5	1.5	0.2	1.2	0.2	<0.1	<0.05	<0.1	<0.001	<5	0.05	53.6	2.0	0.9	60			
BBE015	0.3	0.9	0.1	0.8	0.1	<0.1	<0.05	<0.1	<0.001	<5	0.04	19.4	2.6	1.5	20			
BBE016	0.3	0.9	0.1	0.7	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.04	24.5	2.7	1.5	40			

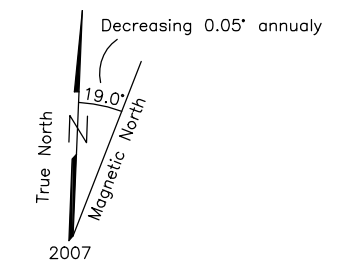
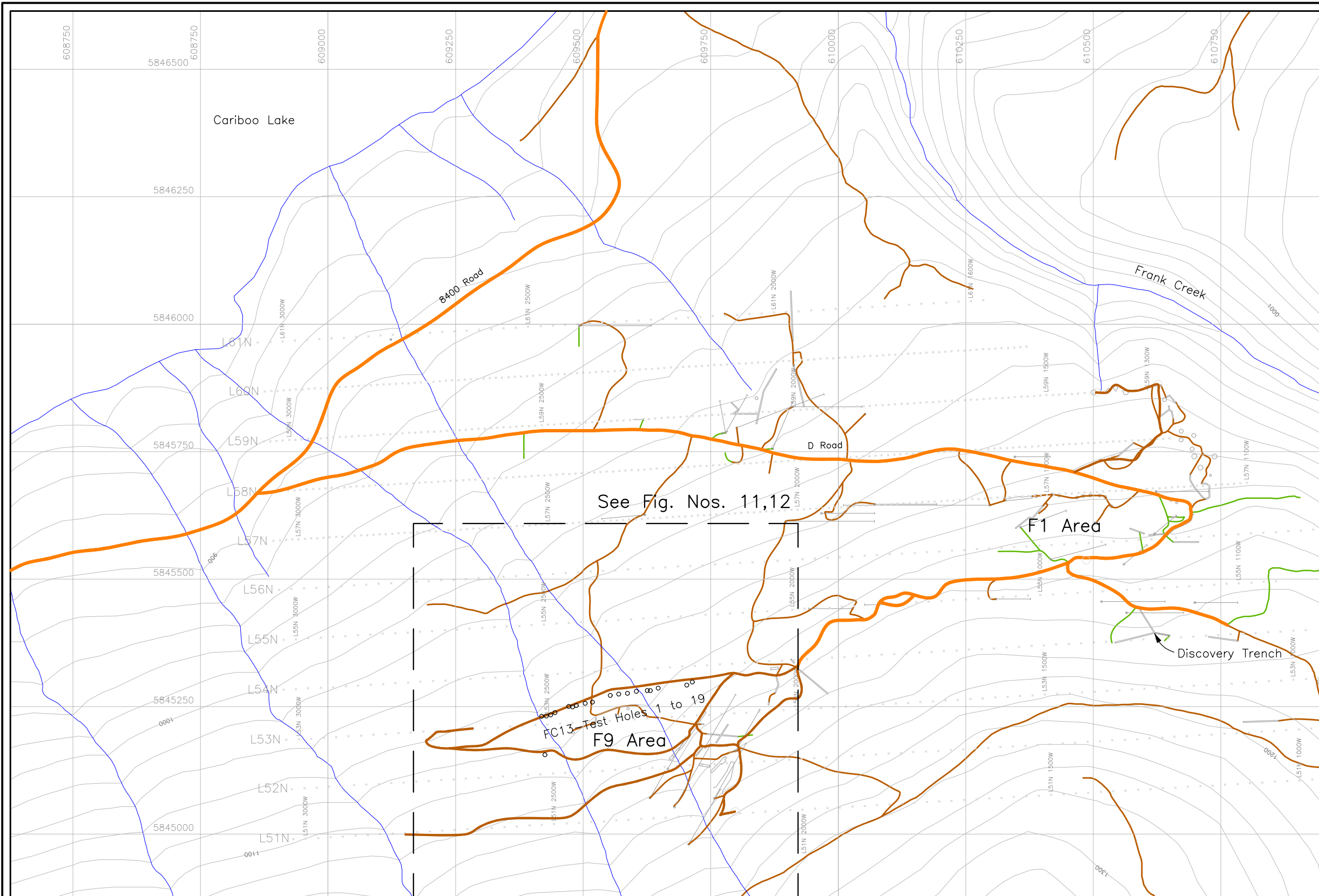
Table No. 1  
Black Bear East Laboratory Geochemical Results



Activation Laboratories Ltd. Report: A13-11486 rev 1

Analyte Symbol	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg	Cu	Pb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb	%	%	%
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	5	0.02	0.01	0.1	0.1	10	0.005	0.01	0.01
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2
BBE017	0.4	1.0	0.1	0.8	0.1	<0.1	<0.05	<0.1	0.001	<5	0.04	27.4	5.4	1.0	40			
BBE018	0.2	0.5	<0.1	0.3	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.02	17.1	6.5	0.9	20			
BBE019	0.3	0.7	0.1	0.6	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.03	22.2	1.5	1.2	40			
BBE020	0.7	2.0	0.3	1.9	0.3	<0.1	<0.05	<0.1	<0.001	<5	0.09	44.4	6.9	2.7	20			
BBE021	0.5	1.3	0.2	1.1	0.2	<0.1	<0.05	<0.1	<0.001	<5	0.04	35.2	10.8	2.1	30			
BBE022	0.4	1.1	0.1	0.8	0.1	<0.1	<0.05	<0.1	<0.001	<5	0.05	141	2.0	1.9	30			
BBE023	0.6	1.5	0.2	1.3	0.2	<0.1	<0.05	<0.1	<0.001	<5	0.04	47.5	5.5	2.2	20			
BBE024	0.2	0.5	<0.1	0.3	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.05	140	10.3	1.1	<10			
BBE025	0.5	1.5	0.2	1.3	0.2	<0.1	<0.05	<0.1	<0.001	<5	0.04	22.6	7.0	1.3	30			
BBE026	0.3	0.8	0.1	0.7	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.06	27.7	2.4	1.6	40			
BBE027	0.3	0.8	0.1	0.6	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.09	30.6	2.4	2.0	20			
BBE028	0.6	1.7	0.2	1.2	0.2	<0.1	<0.05	<0.1	<0.001	<5	0.28	45.3	5.5	2.3	50			
BBE029	0.9	2.3	0.3	1.6	0.2	<0.1	<0.05	<0.1	<0.001	<5	0.13	45.8	4.0	2.2	30			
BBE030	0.4	1.0	0.1	0.8	0.1	<0.1	<0.05	<0.1	0.001	<5	0.09	25.8	2.4	1.3	20			
BBE031	0.4	1.1	0.1	0.7	0.1	<0.1	<0.05	<0.1	<0.001	<5	0.09	15.4	9.7	2.2	<10			
BBE032	0.2	0.6	<0.1	0.4	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.11	43.0	2.3	1.1	40			
BBE033	0.3	0.7	0.1	0.5	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.05	22.5	0.6	0.7	20			
BBE034	0.3	0.7	<0.1	0.5	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.07	35.7	0.5	0.9	20			
BBE035	0.2	0.5	<0.1	0.3	<0.1	<0.1	<0.05	<0.1	0.001	<5	0.08	17.6	1.2	0.9	10			
BBE036	0.2	0.3	<0.1	0.2	<0.1	<0.1	<0.05	<0.1	<0.001	<5	0.03	11.1	5.1	1.9	10			
BBE037	0.6	1.5	0.2	1.0	0.2	<0.1	<0.05	<0.1	<0.001	<5	0.04	103	0.8	2.1	30			
BBE038	0.3	0.9	0.1	0.8	0.1	<0.1	<0.05	1.3	<0.001	26	0.03	78.4	1.5	1.4	10			

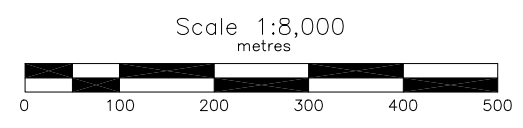
Table No. 1  
Black Bear East Laboratory Geochemical Results



UTM Coordinate System  
 Map Datum: NAD 83  
 Zone: 10

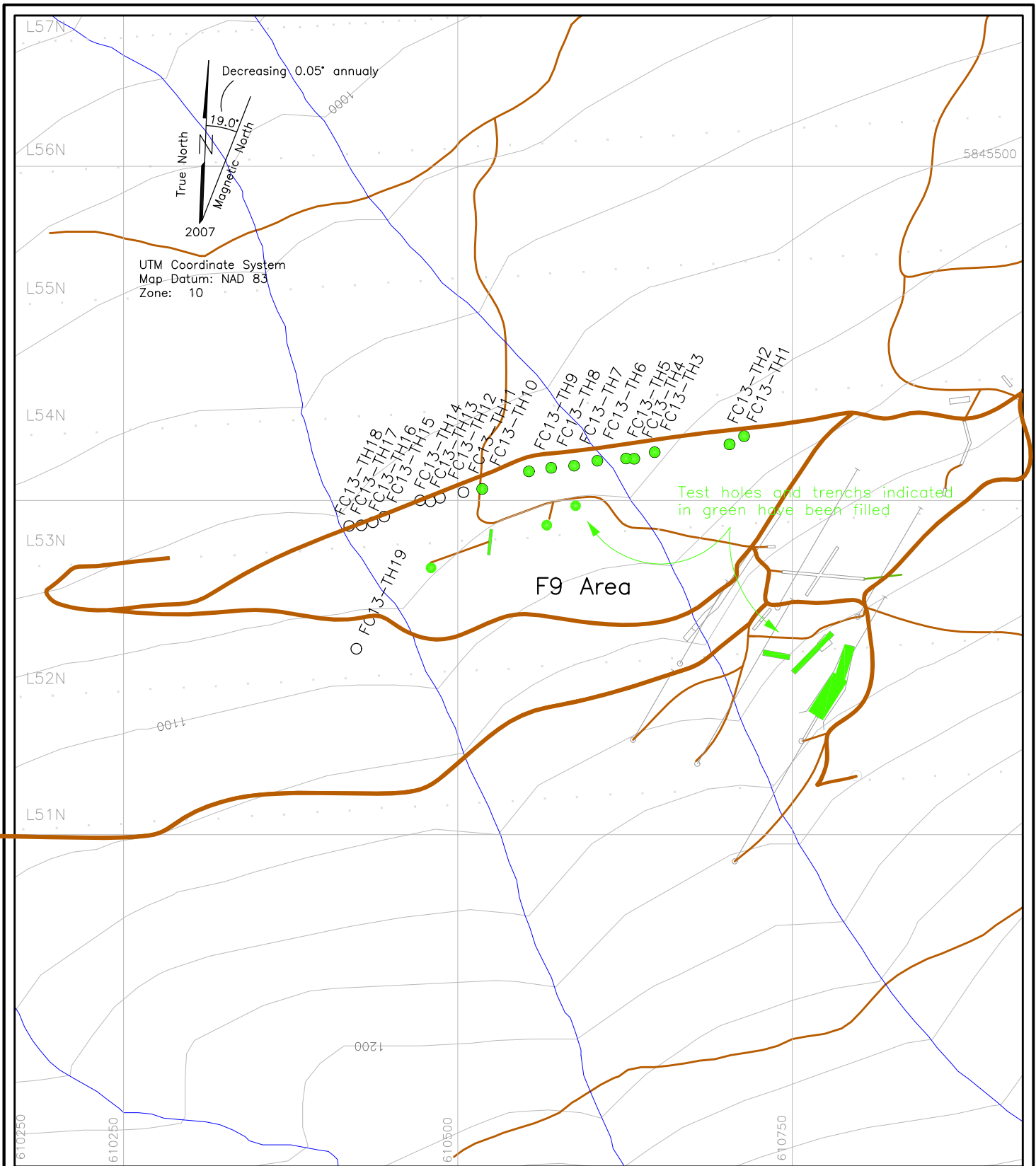
**LEGEND**

- Topographic Contour & Elevation  
Contour interval 20 metres
- Creek
- Road, quad trail, trail, reclaimed
- Test Hole Location




**BARKER MINERALS LTD.**  
**FRANK CREEK PROPERTY**  
 Location Map of  
 Test Holes FC13 1 to 19  
 in F9 Area  
 Cariboo Mining Division, B.C.

NTS Map: 93A/11, 93A/14	Date: Dec 13, 2014
Drawn by: RT	Fig.No. 10

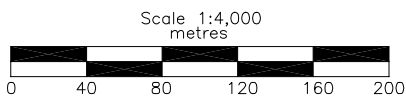


**LEGEND**

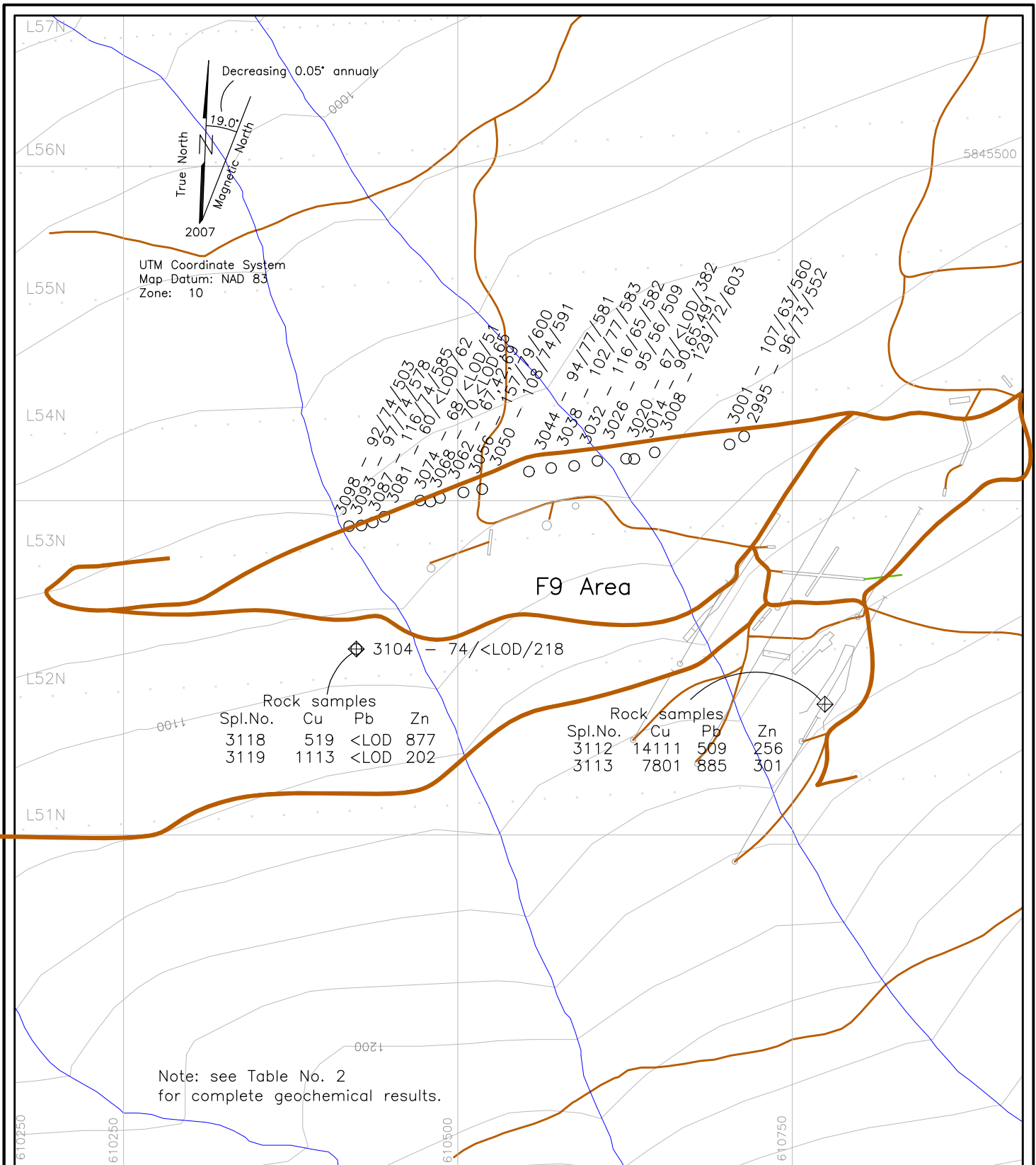
-  Road, quad trail, trail, reclaimed
-  Test Hole & No.
-  FC13-TH19

Note: see Fig. No. 12 for Sample Nos. and Cu, Pb, Zn XRF results.

Road, quad trail, trail, reclaimed



<b>BARKER MINERALS LTD.</b>	
FRANK CREEK PROPERTY	
Test Holes in F9 Area including filled (reclaimed) holes & trenches	
Cariboo Mining Division, B.C.	
Date: Dec. 13, 2014	
Drawn by: RT	Fig.No. 11

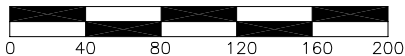


LEGEND

○ Spl.No. - Cu/Pb/Zn

— Road, quad trail, trail, reclaimed

Scale 1:4,000 metres



Test Hole with Spl. No. & metal values in ppm

BARKER MINERALS LTD.

FRANK CREEK PROPERTY  
Cu, Pb, Zn in Soils  
in Test Holes  
in F9 Area

Cariboo Mining Division, B.C.

Date: Dec. 13, 2014

Drawn by: RT

Fig.No. 12

Table No. 2  
Frank Creek Area F9, Test Holes - XRF Sampling Results

Spl. No.	Fig. No. / Area	Type	Units	Field No.	Mo	Zr	Sr	Rb	Th	Pb	Se	As	Hg	Au	Zn	W	Cu	Ni	Co	Fe	Mn	Sb	Sn	Cd	Ag	Nb	Y	Bi	Cr	V	Ti		
2995	Fig 11 / F9	Soil	ppm	fc-13-th01 a	< LOD	165	55	81	15	73	< LOD	73	< LOD	< LOD	552	< LOD	96	< LOD	< LOD	44016	598												
3001	Fig 11 / F9	Soil	ppm	fc-13-th02 a	< LOD	184	59	85	11	63	< LOD	73	< LOD	< LOD	560	< LOD	107	53	< LOD	43790	752												
3008	Fig 11 / F9	Soil	ppm	fc-13-th03 a	< LOD	184	64	85	15	72	< LOD	57	< LOD	< LOD	603	< LOD	129	54	< LOD	44099	697												
3014	Fig 11 / F9	Soil	ppm	fc-13-th04 a	< LOD	171	66	81	11	65	< LOD	64	< LOD	< LOD	491	< LOD	90	35	< LOD	38545	564												
3020	Fig 11 / F9	Soil	ppm	fc-13-th05 a	10	122	157	67	9	< LOD	22	12	< LOD	< LOD	382	< LOD	67	< LOD	< LOD	24452	117												
3026	Fig 11 / F9	Soil	ppm	fc-13-th06 a	< LOD	148	70	71	8	56	< LOD	51	< LOD	< LOD	509	< LOD	95	< LOD	< LOD	35388	561												
3032	Fig 11 / F9	Soil	ppm	fc-13-th07 a	< LOD	165	57	85	14	65	< LOD	73	< LOD	< LOD	582	< LOD	116	< LOD	< LOD	42481	573												
3038	Fig 11 / F9	Soil	ppm	fc-13-th08 aa	5	181	70	95	18	77	< LOD	71	< LOD	< LOD	583	< LOD	102	69	183	43067	678												
3044	Fig 11 / F9	Soil	ppm	fc-13-th09 a	< LOD	178	62	85	13	77	< LOD	75	< LOD	< LOD	581	< LOD	94	< LOD	< LOD	44221	763												
3050	Fig 11 / F9	Soil	ppm	fc-13-th10 a	< LOD	152	61	81	12	74	< LOD	72	< LOD	< LOD	591	< LOD	108	43	< LOD	42712	719												
3056	Fig 11 / F9	Soil	ppm	fc-13-th11 a	< LOD	154	51	81	11	79	< LOD	64	< LOD	< LOD	600	< LOD	157	46	< LOD	47766	865												
3062	Fig 11 / F9	Soil	ppm	fc-13-th12 a	< LOD	124	68	72	42	< LOD	< LOD	10	< LOD	< LOD	69	< LOD	67	< LOD	< LOD	55781	463												
3068	Fig 11 / F9	Soil	ppm	fc-13-th13 a	< LOD	123	74	76	43	< LOD	< LOD	16	< LOD	< LOD	65	< LOD	70	< LOD	< LOD	54005	444												
3074	Fig 11 / F9	Soil	ppm	fc-13-th14 a	< LOD	96	66	65	29	< LOD	< LOD	< LOD	< LOD	< LOD	51	< LOD	68	< LOD	< LOD	46495	229												
3081	Fig 11 / F9	Soil	ppm	fc-13-th15 a	< LOD	180	73	79	42	< LOD	< LOD	7	< LOD	< LOD	62	< LOD	60	< LOD	< LOD	57347	508												
3087	Fig 11 / F9	Soil	ppm	fc-13-th16 a	< LOD	184	70	90	13	74	< LOD	90	< LOD	< LOD	585	< LOD	116	75	200	41921	800												
3093	Fig 11 / F9	Soil	ppm	fc-13-th17 a	< LOD	160	64	81	13	74	< LOD	66	< LOD	< LOD	578	< LOD	97	56	< LOD	45589	830												
3098	Fig 11 / F9	Soil	ppm	fc-13-th18 a	< LOD	176	64	80	14	74	< LOD	67	< LOD	< LOD	503	< LOD	92	34	< LOD	37650	514												
3104	Fig 11 / F9	Soil	ppm	fc-13-th19 a	5	124	170	86	7	< LOD	14	13	< LOD	< LOD	218	< LOD	74	< LOD	< LOD	30805	82												
3112	Fig 11 / F9	Rock	ppm	fc ld fl 1mx1m@fur.west 1c	< LOD	< LOD	6	< LOD	< LOD	509	60	99	< LOD	< LOD	256	< LOD	14111	< LOD	< LOD	318293	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD	85	< LOD	< LOD	< LOD
3113	Fig 11 / F9	Rock	ppm	fc ld fl 1mx1m@fur.west 1d	7	< LOD	8	< LOD	32	885	90	122	< LOD	< LOD	301	< LOD	7801	145	< LOD	331840	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD	2	< LOD	< LOD	< LOD	< LOD	
3118	Fig 11 / F9	Rock	ppm	fc ld sample 2c	5	96	109	47	22	< LOD	< LOD	< LOD	< LOD	< LOD	877	< LOD	519	263	< LOD	147758	< LOD	< LOD	< LOD	< LOD	< LOD	5	5	< LOD	< LOD	< LOD	< LOD		
3119	Fig 11 / F9	Rock	ppm	fc ld sample 2d	12	46	105	19	18	< LOD	< LOD	< LOD	< LOD	< LOD	202	< LOD	1113	< LOD	< LOD	145018	4216	< LOD	< LOD	< LOD	< LOD	5	< LOD	< LOD	< LOD	< LOD	< LOD		

<LOD indicates below level of detection

## **APPENDIX A**

### **Glossary of Technical Terms and Abbreviations**

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## Glossary of Technical Terms and Abbreviations

Anomalous	Chemical and mineralogical changes and higher than typical background values in elements in a rock resulting from reaction with hydrothermal fluids or increase in pressure or temperature.
BCGS	British Columbia Geological Survey.
B.C. MEMPR	British Columbia Ministry of energy Mines and Petroleum Resources.
cm	Centimetre.
DDH	Diamond drill hole.
GBC	Geoscience BC.
GSC	Geological Survey of Canada.
g/t	Grams per tonne (metric tonne). 34.29 g/t (metric tonnes) = 1.00 oz/T (short tons).
Ha	Hectare - an area totalling 10,000 square metres, e.g., an area 100 metres by 100 metres.
ICP	Inductively coupled plasma.
m	Metre.
MS	Mass spectrometry.
oz.	Ounce.
oz/T	ounces per ton (Imperial measurement). 34.29 g/t (metric tonnes) = 1.00 oz/T (short tons).
oz/st	ounces per short ton (Imperial measurement, same as oz/T). 34.29 g/t (metric tonnes) = 1.00 oz/st (short tons).
ppb	Parts per billion.
ppm	Parts per million (1 ppm = 1,000 ppb = 1 g/t).
XRF	X-ray florescence.

## **APPENDIX B**

### **Barker Minerals Ltd. Mineral Claims Details**

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## Barker Minerals Ltd. Mineral Claims Details

<b>Tenure No.</b>	<b>Good To Date</b>	<b>Status</b>	<b>Area (ha)</b>
503009	2015/feb/15	GOOD	686
503012	2015/feb/15	GOOD	627
503824	2015/feb/15	GOOD	59
504233	2015/feb/15	GOOD	588
504234	2015/feb/15	GOOD	588
504410	2015/feb/15	GOOD	411
504412	2015/feb/15	GOOD	78
504413	2015/feb/15	GOOD	626
504414	2015/feb/15	GOOD	684
504415	2015/feb/15	GOOD	450
504416	2015/feb/15	GOOD	508
504418	2015/feb/15	GOOD	469
504419	2015/feb/15	GOOD	824
504421	2015/feb/15	GOOD	706
504422	2015/feb/15	GOOD	491
504424	2015/feb/15	GOOD	822
504425	2015/feb/15	GOOD	666
504427	2015/feb/15	GOOD	509
504428	2015/feb/15	GOOD	705
504431	2015/feb/15	GOOD	686
504432	2015/feb/15	GOOD	705
504433	2015/feb/15	GOOD	587
504434	2015/feb/15	GOOD	802
504435	2015/feb/15	GOOD	625
504436	2015/feb/15	GOOD	586
504437	2015/feb/15	GOOD	684
504438	2015/feb/15	GOOD	684
504439	2015/feb/15	GOOD	702
509590	2015/feb/15	GOOD	429
509591	2015/feb/15	GOOD	566
509592	2015/feb/15	GOOD	215
509593	2015/feb/15	GOOD	273
513456	2015/feb/15	GOOD	20
513459	2015/feb/15	GOOD	235
514127	2015/feb/15	GOOD	1271
514130	2015/feb/15	GOOD	938
514195	2015/feb/15	GOOD	430
514224	2015/feb/15	GOOD	489
514225	2015/feb/15	GOOD	333
514227	2015/feb/15	GOOD	1760
514228	2015/feb/15	GOOD	235
514229	2015/feb/15	GOOD	1311
514230	2015/feb/15	GOOD	764
514233	2015/feb/15	GOOD	274
514234	2015/feb/15	GOOD	1370
514235	2015/feb/15	GOOD	1135
514237	2015/feb/15	GOOD	392
514238	2015/feb/15	GOOD	1270
514239	2015/feb/15	GOOD	1291
514254	2015/feb/15	GOOD	1373

## Barker Minerals Ltd. Mineral Claims Details

514262	2015/feb/15	GOOD	547
514272	2015/feb/15	GOOD	1767
514279	2015/feb/15	GOOD	20
514282	2015/feb/15	GOOD	1056
514284	2015/feb/15	GOOD	1625
514304	2015/feb/15	GOOD	1531
514305	2015/feb/15	GOOD	1412
514307	2015/feb/15	GOOD	762
514319	2015/feb/15	GOOD	1623
514320	2015/feb/15	GOOD	156
514322	2015/feb/15	GOOD	902
514325	2015/feb/15	GOOD	1114
514326	2015/feb/15	GOOD	784
514327	2015/feb/15	GOOD	1055
514330	2015/feb/15	GOOD	822
514332	2015/feb/15	GOOD	1236
514333	2015/feb/15	GOOD	859
514334	2015/feb/15	GOOD	1334
514335	2015/feb/15	GOOD	1039
514337	2015/feb/15	GOOD	568
514338	2015/feb/15	GOOD	627
514340	2015/feb/15	GOOD	1430
514341	2015/feb/15	GOOD	960
514343	2015/feb/15	GOOD	1488
514344	2015/feb/15	GOOD	1274
514345	2015/feb/15	GOOD	1294
514346	2015/feb/15	GOOD	1156
514347	2015/feb/15	GOOD	549
514348	2015/feb/15	GOOD	981
514358	2015/feb/15	GOOD	1448
514361	2015/feb/15	GOOD	607
514364	2015/feb/15	GOOD	1565
514366	2015/feb/15	GOOD	1097
514367	2015/feb/15	GOOD	1019
514373	2015/feb/15	GOOD	137
514376	2015/feb/15	GOOD	176
514377	2015/feb/15	GOOD	137
514397	2015/feb/15	GOOD	274
514415	2015/feb/15	GOOD	117
514525	2015/feb/15	GOOD	471
514531	2015/feb/15	GOOD	704
525812	2015/feb/15	GOOD	39
525813	2015/feb/15	GOOD	20
572892	2015/feb/15	GOOD	2631
572893	2015/feb/15	GOOD	1886
593490	2015/feb/15	GOOD	20
593609	2015/feb/15	GOOD	157
676065	2015/feb/15	GOOD	215
676563	2015/feb/15	GOOD	449
676564	2015/feb/15	GOOD	488
676565	2015/feb/15	GOOD	488

Barker Minerals Ltd. Mineral Claims Details

676583	2015/feb/15	GOOD	488
676603	2015/feb/15	GOOD	488
676643	2015/feb/15	GOOD	371
687745	2015/feb/15	GOOD	488
687746	2015/feb/15	GOOD	488
687751	2015/feb/15	GOOD	411
690184	2015/feb/15	GOOD	450
851879	2015/feb/15	GOOD	20
1012408	2015/feb/15	GOOD	313
1031192	2015/feb/15	GOOD	293
1031194	2015/feb/15	GOOD	176
1031196	2015/feb/15	GOOD	333
1031199	2015/feb/15	GOOD	195
1031201	2015/feb/15	GOOD	196
1031203	2015/feb/15	GOOD	274
1031204	2015/feb/15	GOOD	332

## **APPENDIX C**

### **Analytical Methods**

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## Overview of sample analysis using energy dispersive X-ray fluorescence using the Thermo Scientific Niton XL3t handheld XRF analyzer

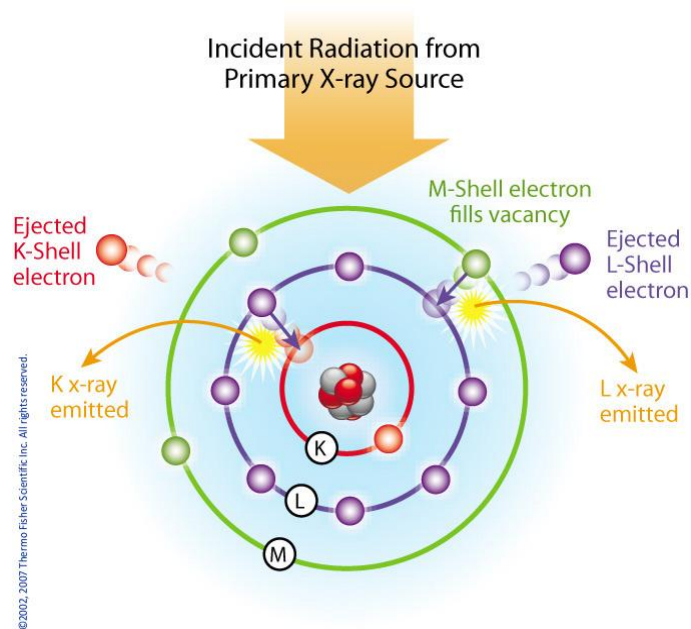
Thermo Scientific portable energy-dispersive x-ray fluorescence (EDXRF) analyzers, commonly known as XRF analyzers, can quickly and nondestructively determine the elemental composition of metal and precious metal samples of rocks, ore and soil.

Up to 40 elements may be analyzed simultaneously by measuring the characteristic fluorescence x-rays emitted by a sample. XRF analyzers can quantify elements ranging from magnesium (Mg - element 12) through uranium (U - element 92) and measure x-ray energies from 1.25 keV up to 85 keV in the case of Pb K-shell fluorescent x-rays excited with a  $^{109}\text{Cd}$  isotope. These instruments also measure the elastic (Raleigh) and inelastic (Compton) scatter x-rays emitted by the sample during each measurement to determine, among other things, the approximate density and percentage of the light elements in the sample.

### Elemental Analysis - A Unique Set of Fingerprints

How does XRF work? Each of the elements present in a sample produces a unique set of characteristic x-rays that is a "fingerprint" for that specific element. XRF analyzers determine the chemistry of a sample by measuring the spectrum of the characteristic x-ray emitted by the different elements in the sample when it is illuminated by x-rays. These x-rays are emitted either from a miniaturized x-ray tube, or from a small, sealed capsule of radioactive material.

1. A fluorescent x-ray is created when an x-ray of sufficient energy strikes an atom in the sample, dislodging an electron from one of the atom's inner orbital shells.
2. The atom regains stability, filling the vacancy left in the inner orbital shell with an electron from one of the atom's higher energy orbital shells.
3. The electron drops to the lower energy state by releasing a fluorescent x-ray, and the energy of this x-ray is equal to the specific difference in energy between two quantum states of the electron.



Atom emits characteristic X-rays when illuminated by x-rays from a primary source.

When a sample is measured using XRF, each element present in the sample emits its own unique fluorescent x-ray energy spectrum. By simultaneously measuring the fluorescent x-rays emitted by the different elements in the sample, the Thermo Scientific portable XRF analyzers can rapidly determine those elements present in the sample and their relative concentrations - in other words, the elemental chemistry of the sample.



Overview of the Thermo Scientific Niton XL3t handheld XRF analyzer.

**APPENDIX D**

**REFERENCES**

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Deposit Type G04 – Besshi Massive Sulphide Zn-Cu-Pb

Deposit Type E14 – Sedimentary Exhalative Zn-Pb-Ag

Deposit Type E04 – Sediment-Hosted Cu

Deposit Type I01 – Au-quartz veins

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Minfile No. 093A 142 (Ace) [http://minfile.gov.bc.ca/report.aspx?f=PDF&r=Minfile\\_Detail.rpt&minfilno=093A++142](http://minfile.gov.bc.ca/report.aspx?f=PDF&r=Minfile_Detail.rpt&minfilno=093A++142)

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**APPENDIX E**

**STATEMENT of EXPENDITURES**

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# Barker Minerals Ltd.

Work was completed between August 1, 2013 to March 1, 2014

## Technical Work - Geological & Geochemical on the Frank Creek and Black Bear East Projects

### Geological

#### Sampling, mapping, XRF analysis, interpretation & report writing

##### Rein Turna - Geologist

20 days @ \$400.00/day wages	\$	8,000.00
20 days @ \$125.00/day room & board	\$	2,500.00
10 days @ \$125.00/day vehicle	\$	1,250.00

##### Jack Logan - Geologist

20 days @ \$400.00/day wages	\$	8,000.00
20 days @ \$125.00/day room & board	\$	2,500.00
20 days @ \$125.00/day vehicle	\$	2,500.00

**\$ 24,750.00**

#### Trenching and test holes

CAT 320	100 hours x \$125.00/hour	\$	12,500.00
Operator	100 hours x \$50.00/hour	\$	5,000.00
	10 days @ \$125.00/day room & board	\$	1,250.00
	10 days @ \$125.00/day vehicle	\$	1,250.00

**\$ 20,000.00**

### Geochemical

Assays (BB East Project)	\$	2,500.00
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Total geochemical expenditures **\$ 2,500.00**

### Total Expenditures

**\$ 47,250.00**

**APPENDIX F**

**STATEMENT of AUTHOR'S QUALIFICATIONS**

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### **Statement of Author's Qualifications**

I, Rein Turna, of the City of West Vancouver, British Columbia, hereby certify that:

1. I am Vice President of Exploration of Barker Minerals Ltd.
2. I am a graduate of the University of British Columbia with a B.Sc. in Geological Sciences granted in 1975.
3. I am a registered member of the Professional Engineers and Geoscientists of British Columbia.
4. I have worked as a geologist in British Columbia, Saskatchewan, Ontario, Yukon and Northwest Territories in Canada since 1975.
5. I carried out or supervised work described in this report.

R. Turna, P.Geol.

December 4, 2014