



Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

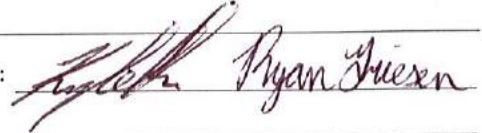
Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Stream Sediment and Rock Geochemistry

TOTAL COST: \$9,183.72

AUTHOR(S): K.Orr & R. Friesen

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): N/A

YEAR OF WORK: 2019

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5742861, May 17 2019 - May 23 2019

PROPERTY NAME: Cayenne

CLAIM NAME(S) (on which the work was done): 1042407, 1042408, 1042409, 1042418, 1042421

COMMODITIES SOUGHT: Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 93G 067, 93G 070, 93G 055, 93G 004, 93G006

MINING DIVISION: Cariboo

NTS/BCGS: 93G07, 93G08, 93G10

LATITUDE: 53 ° 24 '59.04 " LONGITUDE: -122 ° 27 '41.1 " (at centre of work)

OWNER(S):

1) Barkerville Gold Mines Ltd.

2)

MAILING ADDRESS:

PO Box 247, Wells, BC, V0K 2R0

OPERATOR(S) [who paid for the work]:

1) Barkerville Gold Mines Ltd.

2)

MAILING ADDRESS:

PO Box 247, Wells, BC, V0K 2R0

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Upper Triassic, Lower Jurassic, granodiorite, granite, quartz, sericite, mafic volcanics, Quesnel Terrane, Barkerville Terrane, veins, hydrothermal, pyrite arsenopyrite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 16422, 28644, 32778, 19117, 29467, 36966,

36734, 38137, 25000

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			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt 13		1042407, 1042408, 1042418, 1042421	\$7,340.61
Rock 4		1042409	\$1,843.11
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
TOTAL COST:			\$9,183.72

**ASSESSMENT REPORT ON THE GEOCHEMISTRY OF STREAM
SEDIMENTS AND ROCK SAMPLES ON THE CAYENNE PROPERTY**

Cariboo Mining District
Central British Columbia

NTS Map Sheets: 93G/07, 93G/08, 93G10

BCGS: 093G057, 093G058, 093G048, 093G047, 093G038,
093G039, 093G040, 093G039, 093G029, 093G030

UTM: 535,800mE 5,918,800mN
NAD 83, Zone 10

Lat/Long: 53° 24' 59.04" -122° 27' 41.4"

Prepared for:
Barkerville Gold Mines Ltd.
3700 Ski Hill Road
Wells, BC
V0K 2R0

Prepared by:
K. Orr, Exploration Manager, Barkerville Gold Mines Ltd.
& R. Friesen, Exploration Geologist, Barkerville Gold Mines Ltd.

August 25, 2019

Tenure Numbers:
1042407, 1042408, 1042418, 1042421, 1042409

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TABLE 1: CLAIM TENURE INFORMATION

SUMMARY

The Cayenne property is in Central British Columbia, 50 km south of the City of Prince George. The property consists of 17 contiguous mineral claims that cover 22,909.46 hectares. This report concerns 13 stream sediment samples 4 rock samples and 8 geologic stations were collected on 5 claims within the Cayenne property. A map of all Cayenne property mineral tenures is presented in Figure 2.

The Cayenne property lies along the Eureka thrust fault, which separates the Quesnel Terrane in the west from the Barkerville Sub-Terrane in the east. The Nicola Group Jurassic volcanics make up the western portion of the property, and sedimentary rocks of the Takla and Snowshoe Group encompass the north, central, and east portion of the claims. The Naver Pluton, a granitic to granodioritic intrusive body, encompasses a substantial portion of the southeastern claims. Mineral showings in the area are generally related to quartz veining within the Nicola Group, however, one showing of intrusive-related molybdenite showing is reported (Thomas, 2009).

Exploration in the area of the Cayenne claims has occurred intermittently since the 1870s Cariboo Gold Rush and in more recent years, with geological mapping, geochemical sampling, diamond drilling and geophysics. A small past producing mine as well as historical and current placer operations are in the area.

In 2019, Barkerville Gold Mines Ltd. (BGM) conducted a geochemical survey between May 17 and May 23. A crew of two people collected 13 stream sediment samples and 4 rock samples. The program returned a peak value of 297 parts per billion (ppb) gold (Au). Rock sampling returned a peak value of 1.26 parts per million (ppm) Au. Further stream sediment and rock geochemical samples continued to be acquired after May 23rd, 2019 and will be the subject of a subsequent assessment report.

Isolated anomalous samples collected during the geochemical surveys are interpreted to be glacial or fluvial dispersion of gold values in till due to the glaciated nature of the area. However, clustered samples which highlight sub-parallel, adjacent, or close-proximity basins are theorized to be bedrock sourced anomalies and warrant further exploration work.

It is recommended that the coherent anomalous regions on the Cayenne property be followed up with a secondary geochemical program to test for gold in soil values. Coherence or lack thereof, in soil geochemical anomalies may indicate whether the gold values are due to glacial and fluvial dispersion or are the product of a bedrock source.

INTRODUCTION

This report describes a geological and geochemical sampling program completed between May 17 and May 23, 2019 on the Cayenne property of Barkerville Gold Mines Ltd. A total of 13 stream sediment samples, 4 rock samples and 8 geologic stations were collected. Further information in this report was derived from publicly available assessment reports, government maps and publications.

LOCATION AND ACCESS

The Cayenne mineral claims are situated 50 km south of the City of Prince George, and 50 km north of the City of Quesnel, in the Cariboo Region of Central British Columbia (Figure 1). The Cayenne Property lies in the Cariboo Mining Division in map sheets 93G07, 93G08 and 93G10. The approximate center of the claim group is 535,800E, 591,8800N (NAD 83, UTM Zone 10). Access to the property is by paved highway and logging roads. From Prince George, take highway 97 south for approximately 50 km. There are numerous logging road turnoffs to access the property namely Camp Creek Road on the northern end of the property, Grundel Road and the 3800 Forest Service Road in the central portion of the property. To access the southern portion of the property from Quesnel, take highway 97 north for approximately 45 km

and turn east onto Naver Creek Road. Travel time from Prince George and Quesnel are both approximately 1 hour.

TOPOGRAPHY, CLIMATE AND VEGETATION

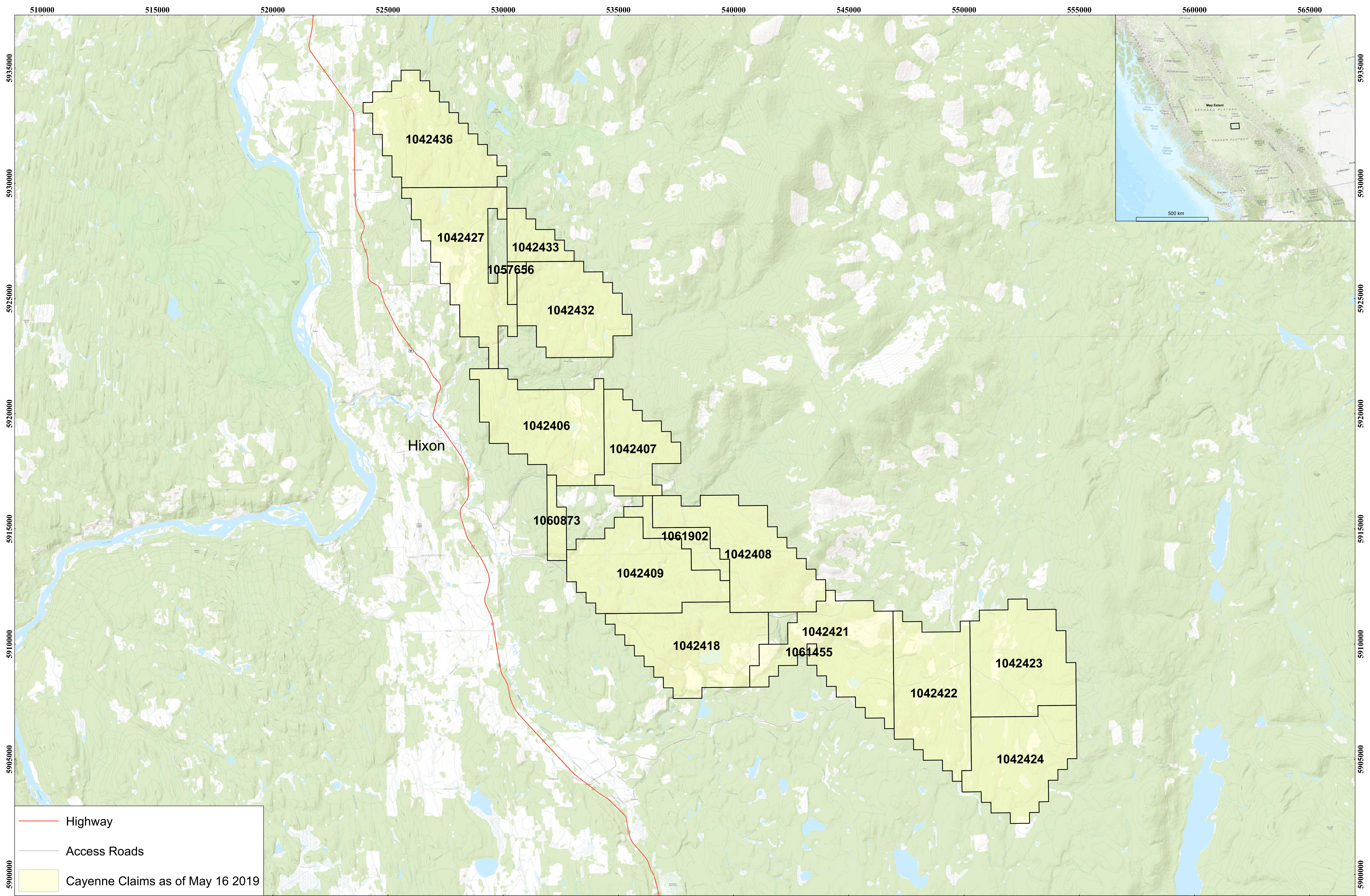
The Cayenne Property is within the Interior Plateau, characterized by numerous lakes, wetlands and rolling hills. Relief is modest, generally less than 400 m with peak elevation at 1200 m. Climate is typical of the central interior, with relatively cold winter conditions and temperate summers between June and September. The project area has been severely affected by the pine beetle infestation, and a network of logging roads provides access to most of the claim area.

CLAIMS

The Cayenne mineral claims consist of 17 contiguous claims totaling 22,909.46 hectares. The mineral tenure covered in this assessment report consists of 8 mineral claims that cover a total area of 9,455.41 hectares and are held by Barkerville Gold Mines Ltd within the greater Cayenne project area. The claim tenure information for this report is listed below in Table 1 and all tenures in the Cayenne property are illustrated in Figure 2. The expiry dates shown reflect the application of assessment work credit detailed in this report.

Table 1: Cayenne Tenure Information for SoW event 5742861.

Tenure Number	Claim Name	Area (ha)	Owner ID	Issue Date	Good to Date
1042407		1040.74	104256	2016/FEB/29	2020/Aug/18
1042408		1929.15	104256	2016/FEB/29	2020/Aug/17
1042409		1929.47	104256	2016/FEB/29	2020/Aug/17
1042418		1930.72	104256	2016/FEB/29	2020/Aug/17
1042421		1911.65	104256	2016/FEB/29	2020/Aug/17
1060873	PEDLEY CREEK	250.72	104256	2018/MAY/31	2020/Aug/17
1061455		19.31	104256	2018/JUN/29	2020/Aug/17
1061902		443.65	104256	2018/JUL/21	2020/Aug/17



- Highway
- Access Roads
- Cayenne Claims as of May 16 2019

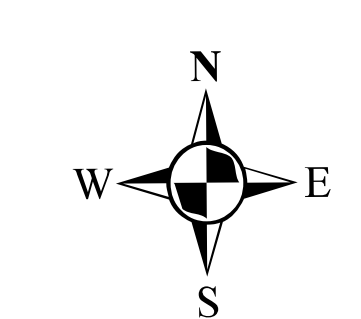
BGM Barkerville Gold Mines Ltd.
 Date: 8/24/2019
 Author: R.Friesen

Figure 2: Mineral Tenure
 Cayenne Project
 British Columbia, Canada

0 2 4 6 8 10
 Kilometers

1:50,000

Coord. System: NAD 1983 UTM Zone 10N



HISTORY

The Cayenne property area has been explored intermittently since the 1870s Cariboo gold rush. Most of the area's major creeks have been worked by placer-gold operations. Past producing creeks include Government Creek, Hixon Creek, Terry Creek and Canyon Creek, all of which lie to the West of the Naver pluton. Estimates of \$2,000,000 of placer gold is estimated to have been mined from Hixon Creek alone (Simmons, 2007). More recent exploration has involved soil and rock geochemical sampling, trenching, diamond drilling, and geophysical surveys.

In the 1870's and 1880's underground development was initiated near Hixon Creek to target auriferous quartz veining. Production was reported to be 239 tons of ore (Simmons, 2007).

In the 1930's, Quesnel Quartz Mining Company operated and developed the underground Hixon Creek mine. Quesnel Quartz has recorded production in 1932 and 1939 totaling 2,047 tonnes. Recovery is reported as 275 ounces of silver and 207 ounces of gold. (MINFILE 093G 015). Bethlehem Copper Corporation and Golden Rule Resources followed up with four diamond drill holes in the 1970's (Simmons, 2007).

In 1984, Noranda Exploration Company flew an airborne EM-Magnetic survey over the north end of the claim block. Subsequent ground follow-up, which consisted of geological mapping and soil sampling revealed several anomalous gold in soil values (Baerg, 1987).

In 2006, Cayenne Gold Mines Ltd. conducted prospecting, trenching and geochemical sampling on the property and recommended further work to follow up and expand the sporadic geochemical anomalies (Briden, 2006). In 2007, a follow up diamond drill program consisted of three diamond drill holes of 596 meters (Simmons, 2007).

The claims were staked by Barkerville Gold Mines Ltd. in 2016 due to prospective regional setting, local geology, historical mineral occurrences and gold in stream sediment anomalies.

In 2016, Barkerville Gold Mines Ltd. conducted two helicopter-borne geophysical surveys, totaling 1,358 line-kilometers of geophysical data. Principle geophysical sensors included a cesium magnetometer, a versatile time domain electromagnetic (VTEMTMplus) system and a horizontal magnetic gradiometer (HMAG) with two cesium sensors. Based on the geophysical results obtained, there is a northwest-southeast anomalous zone associated with mapped northwest trending fault structures along the contact between the volcanoclastics and metasediments and coincident with known mineralized zones in the area (Layman, 2017a and 2017b).

In 2018, Barkerville Gold Mines Ltd. conducted a follow-up exploration program, which consisted of geochemical sampling and prospecting. 191 stream sediment samples, and 24 rock samples were collected. The highest stream sediment geochemical value was 489 ppb Au. The highest rock geochemical value was 1.005 ppm Au (Orr and Carroll, 2019).

REGIONAL GEOLOGIC SETTING

The Cayenne property straddles the Intermontane Belt to the West, and Omineca Belt to the East, which are represented by the Quesnel Terrane and Barkerville Sub-Terrane (Kootenay Terrane), respectively (Monger *et al.*, 2002). The Quesnel Terrane is a linear, northwest trending volcanic arc terrane and is found along most of the length of the Canadian Cordillera. The Quesnel Terrane is primarily represented by Middle and Upper Triassic volcanic and sedimentary rocks which are assigned to the Takla Group in northern and central British Columbia and to the Nicola Group in the south. These rocks are locally overlain by Lower Jurassic volcanic and sedimentary rocks and are cut by a several suites of Late Triassic through Early Jurassic plutons (Schiarizza, 2003). The Barkerville Terrane is composed of Precambrian and

Paleozoic clastic, carbonate and volcanoclastic rocks. The Quesnel and Barkerville Terranes are separated by the southwest dipping Eureka thrust fault (Struik, 1986). The regional geology map is presented in Figure 3.

PROPERTY GEOLOGY

The Cayenne property lies along the Eureka Thrust, which emplaced the Quesnel and Slide Mountain Terranes on top of the Barkerville Terrane. The property is largely covered in persistent Pleistocene glacial and fluvio-glacial deposits. Available geology maps of the work area indicate outcrop exposure on the property is limited except in high elevations, creeks and road cuts. Due to forestry industry activity, new road cuts now provide greater access to most of the property, and timber harvesting has exposed areas where subcrops and outcrops of rock were not previously noted.

On the Cayenne property, the Quesnel Terrane is represented by the Nicola and Takla Groups. The Middle to Upper Triassic Nicola Group to the West is composed of volcanic and volcanoclastic rocks, primarily by basalt breccias, tuffs, and flows. The Takla Group to the North and central area of the claims is composed of interbedded sedimentary rocks (Thomas, 2009).

The Slide Mountain Terrane is represented by the Crooked Amphibolite which is composed of amphibolite and lesser amounts of serpentinite (Struik, 1986). Listwanite-associated gold typically forms in serpentinitized ultramafic rocks near major fault zones (Ash and Arksey, 1989).

The Barkerville Terrane is represented by the Snowshoe Group which covers much of the eastern margin of the claims and is primarily composed of Proterozoic to Paleozoic quartzite and schist. (Struik, 1986).

The Naver Pluton is an intrusion belonging to the Bayonne Plutonic Suite. It lies to the southeast and northeast of the claim and is composed of granitic to granodioritic rock. The Naver Pluton intrudes the Barkerville Terrane in the northeast and central portion of the property, and the Quesnel Terrane to the south. The pluton has been categorized into two phases. The Naver 1 represents the deformed Western margin of the pluton, where significant recrystallization has taken place, and is classified as a biotite granodiorite. The Naver 2, which represents the majority of the Naver pluton, is an undeformed orthoclase-megacrystic biotite granite-granodiorite (Moynihan and Logan, 2009). The age of the Early-Cretaceous pluton has been reported as 113 +/- 1 Ma (Struik et al., 1992). The Property Geology map is presented in Figure 4.

MINERALIZATION

Several Minfile occurrences are located on or adjacent to the Cayenne Property. The source of the placer gold within the district is thought to be local underlying mesothermal quartz veins, large shale hosted gold deposits like Spanish Mountain and Fraser Gold, and alkalic intrusion related porphyry gold deposits such as Mount Polley Mine (Hawkins, 2011).

Quartz carbonate veins associated with silica alteration and variable quartz veinlets and stringers have been observed on the property. The veins are generally oriented striking to the northeast and sulfide mineralization is comprised of pyrite and chalcopyrite with some specks of visible gold (Payie, 2009). Sheared basalt of the Takla Group hosts chalcopyrite mineralization in the southern portion of the property near the Jo mineral showing (Minfile 093G 004).

The Quesnel Quartz Deposit (Minfile 093G 015) is specifically associated with a highly sheared and hydrothermally altered, northwest trending zone, in which greenstones are in contact with quartz sericite schists. Steeply dipping, northeasterly striking quartz veins, which vary from a few centimeters up to about 1.8 meters in width, terminate against the greenstones. Gold mineralization occurs in the veins and to a lesser extent in the greenstone. Mineralization includes native gold, native silver, galena, sphalerite, chalcopyrite, molybdenite, arsenopyrite, pyrrhotite and pyrite.

The Pioneer mine was associated with argentiferous galena and sphalerite in quartz veins. In 1927, 809 grams of silver, 126 kilograms of lead, and 2 kilograms of zinc were recovered from four tons of ore (Minfile 093G 013).

The Cayenne showing (Minfile 093G 056) consists of 0.6 to 1.2-meter-wide quartz veins and several smaller quartz stringers which cut highly altered and weathered quartz sericite schist. Gold values have been reported from both the quartz veins and from the schist. A grab sample in 1929 assayed 8.22 g/t Au (grams per ton gold) and 13.71 g/t Ag (grams per ton silver) (Energy, Mines and Petroleum Resources Annual Report 1929 p. 189).

The PED showing (Minfile 093G 070) consists of large alteration zones, accompanied by quartz veinlets and stringers. Mineralization observed within the veinlets consists of sporadic minor pyrite, trace chalcopyrite and some specks of visible gold. The wall rock contains minor mariposite and up to 10% disseminated pyrite. Samples from one location in 1996 by Guinet Management assayed up to 23.69 g/t Au (Yorston, 1997).

The Quartz showing (Minfile 093G 029) is a very pure silica vein. Assay values have produced SiO₂ readings of up to 96%. The vein strikes approximately parallel to regional bedding at 140 degrees. The surface exposure of the vein is 205 m long and up to 21 m wide.

The Ice showing (Minfile 093 006) is recorded as molybdenite mineralization associated with the Naver granodiorite and quartz monzonites that have intruded the Upper Triassic to Lower Jurassic basaltic rocks of the Takla Group (Assessment Report 32778). Gold can be associated with molybdenum-bearing plutons in intrusion-related gold deposits, specifically, in intrusion-hosted deposits (Hart and Goldfarb, 2005).

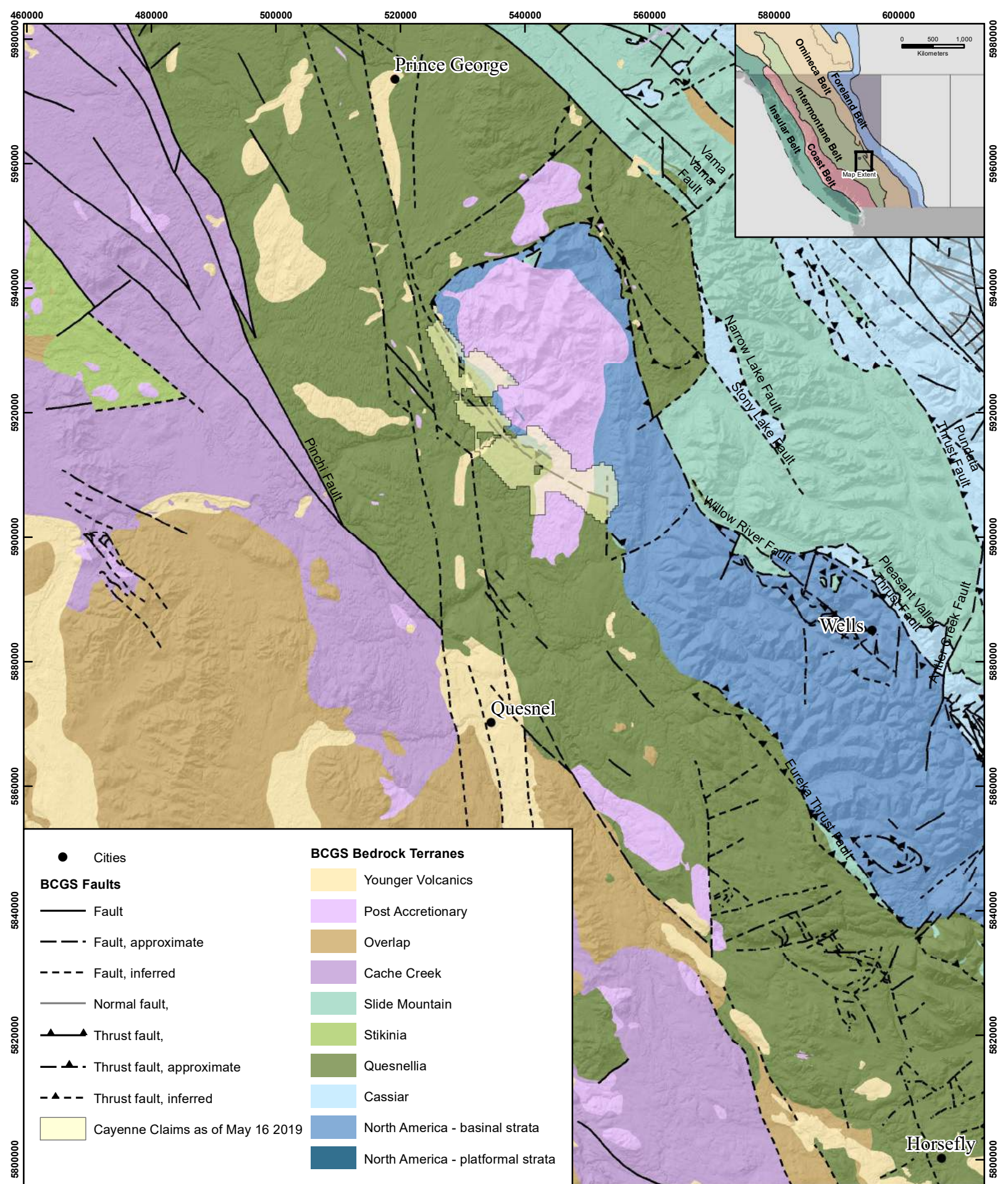
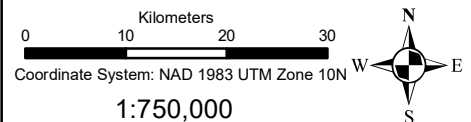
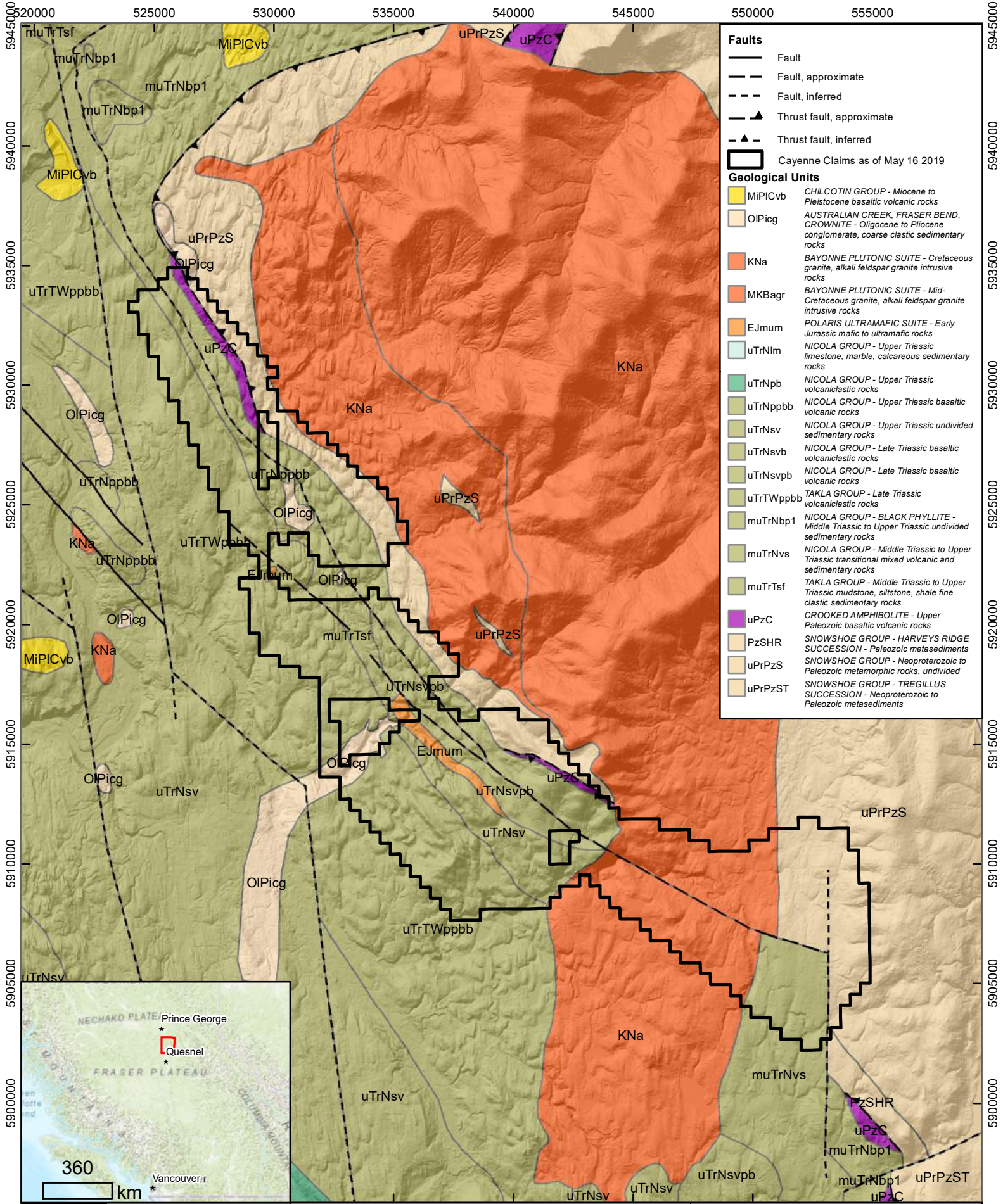


Figure 3: Regional Geology
 Cayenne Project
 British Columbia, Canada



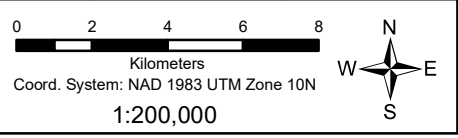
Barkerville Gold Mines Ltd.
 Date: 8/26/2019
 Author: R. Friesen





BGM Barkerville Gold Mines Ltd.
 Date: 8/26/2019
 Author: R. Friesen

Figure 4: Property Geology
 Cayenne Project
 British Columbia, Canada



DESCRIPTION OF WORK

2019 Stream Sediment Sampling

The field crew was staged out of the town Hixon B.C. to the west of the claim block. The field crew was composed of Geologist Tyler Munnich and Geological Technician Jason Kolcun, with office support from Geologist Michael Frye who was overseeing the execution of multiple programs in the area. Expeditor Lawrence Fouchalk provided supply deliveries and sample shipping to Van-Kam Freightways Ltd. in Quesnel for delivery to ALS Geochemistry Lab in North Vancouver.

The program was designed to provide follow up to the previous year's stream sediment sampling program, conducted by Barkerville Gold Mines Ltd. The program took place over a period of 7 days between May 17th and May 23rd. The claim tenure was accessed by truck via gravel and dirt access roads inside the tenure. Additional work on the Cayenne claim continued past May 23rd and subsequent results will be submitted in a different assessment report.

The 2019 program was designed to test for geochemical anomalies in first and second order streams which drain the tenure's basins. One team of two people worked to locate preliminary sample site locations which were generated during a desktop study using GIS data. Preliminary locations were placed near the stream outflow from first order stream basins. Once the preliminary location was reached, the team followed the stream up-gradient while looking for a suitable sediment trap, which would yield a substantial volume of 180 micron and smaller material.

Four proposed sample sites were not sampled and classified as a "NO SAMPLE". These sample sites were not collected at the discretion of the sampling team for a variety of reasons including: GIS data errors resulted in a preliminary sample location which was not a stream, entire potential sample area was not a discrete drainage but a marsh / wetland, organic content of preliminary sample site was too high causing the 80 mesh sieve to plug-off and not allow the passing of 180 micron or smaller material, hydraulic winnowing of the material would not allow for collection of suitable volumes of fine material.

Sample data was collected on an Apple iPad through the Survey 123 for ArcGIS ESRI application. This data was checked daily for errors and synchronized to a database over the internet. Collected data fields include: station ID, date, UTM coordinates of sample location, GPS error measurement, sampler initials, sample weight, number of collection sites and distance apart, details about the sample site and sediment trap type, water pH, proximal disturbance, suspected contamination source(s), reject material clast composition and proportion, precipitates, site plan sketch, stream incision profile sketch.

Geostation Recording

Outcrop in the field area was recorded as a Geologic Station (Geostation) in ESRI Survey 123. Data collection of geostations included station ID, sampler initials, date, UTM coordinates of outcrop, GPS error measurement, degree of weathering, lithologies and proportions, alteration minerals and extent, sulfide minerals and proportions, degree of magnetism, veining, breccia description, structures identified and measured, site sketch, geologist's comments. A total of 8 geostations were documented during the field program.

Outcrops were located using satellite imagery, and while hiking for stream sediment samples. Outcrops in the tenement are scarce and generally small, on the order of 5m x 15m of surface exposure average (approximate). Outcrop was commonly encountered along the area's creek and road cuts.

Rock Sampling

Rock samples were collected from outcrops hosting veining or prospective sulphide mineralization. A total of 4 rock samples were collected on the claim tenure and returned a peak value of 1.26 ppm Au. Rock sample data collected included UTM coordinates, site type (outcrop, subcrop, etc.), sample type (select, grab, etc.), weathering degree, corresponding geostation, lithology, alteration, magnetism, sulfides, and other observations.

SAMPLING METHOD AND APPROACH

Stream Sediment Samples

Stream sediment sample and geologic information were collected and recorded by the geologist or geotechnician in the field at the sample location, using an Apple iPad through the Survey 123 for ArcGIS ESRI application. Each stream sediment or rock sample collected was assigned unique sample identification numbers corresponding to an ALS Global Laboratories barcoded tag. A sample tag was shipped with each sample, and a corresponding tag is retained for reference.

Stream sediments were extracted using a clean shovel or sample scoop. Upon removal from the stream, the team processed the sample material through three sieves in two steps. First, material was classified through a set of 10 mm and 2 mm stacked classifiers and into a sampling tub to produce 2 mm and finer material. Coarse reject was placed into piles for written description of lithologies and proportion and then photo documented. The 2 mm and finer material was then passed through an 80 mesh (-180 micron) sieve and into a sample bucket. The sample bucket was emptied into a cloth sample bag along with an assay tag. A minimum of 1-kilogram (Kg) of fine sediment (180 micron or less) material was collected.

Any sample site suspected to be contaminated or reworked material was either relocated to an area where contamination was not suspected or documented during data collection as a potential source of error or anthropogenic input. Where not enough sample material was available, a no sample (NO SAMPLE) point was marked and noted. All soil and rock sample locations were flagged using high-visibility flagging tape, with an aluminum “butter” tag which displayed the sample identification number and the year. Sample material was then placed into a 7” x 12.5” Hubco fabric sample bag along with the tag and sealed with drawstrings for transport back to camp. Samples were dried on site prior to shipment for analysis.

Rock Samples

Rock samples were collected from outcrop hosting quartz veins or sulphide mineralization. Before material extraction, outcrop and sample in-situ photos were taken and structural data was recorded. All rock samples collected were recorded on the Survey 123 application, capturing a large scope of geologic data on the surrounding outcrop. Once removed, rock material was placed into a labelled poly-ore bag with the barcoded tag. Approximately 1 kg of rock material was collected for analysis, as well as an additional fist-sized representative (“REP”) sample which is saved on-site for future reference.

RESULTS

A total of 13 stream sediment samples were collected from the property. The highest gold assay value was from sample R000309 yielding 297 ppb Au. A total of 2 samples or approximately 15.4%, resulted in gold values above 100 ppb Au. A total of 3 samples, or 23.1% resulted in gold values between 10 and 50 ppb Au. A total of 5 samples or 38.5% resulted in gold grades between 3 and 10 ppb Au. A total of 3 samples, or 23.1% resulted in gold grades of 2 ppb Au or lower.

Locations of the 13 stream sediment samples and their gold assay values can be seen in Appendix A/Figure 5. Select data from the description of stream sediment samples is presented in Appendix C. Full assay

results for the stream sediment samples are presented in Appendix F. Appendix F contains additional assay values that are not the subject of this report and do not necessarily come from the Cayenne project area.

Of the 4 rock samples collected, sample X954801 returned the highest value of 1.26 ppm Au. This sample was taken from a ~3cm thick quartz vein with 30% semi-massive arsenopyrite hosted in mafic volcanics.

Locations of the 4 rock samples, with gold assay values, and their associated Geostations are presented in Appendix B/Figure 6. Select data from the description of rock samples is presented in Appendix E. Full assay results for the rock samples are presented in Appendix G. Appendix G contains additional assay values that are not the subject of this report and do not necessarily come from the Cayenne project area.

Locations of the 8 Geostations and their associated rock samples, with gold assay values is presented in Appendix B/Figure 6. Select data from the description of Geostations is presented in Appendix D.

SAMPLE QUALITY CONTROL, PREPARATION, AND ANALYSES

After air drying at ambient room temperature in secure storage, stream sediment samples in cloth bags were packaged into labelled rice bags and secured with numbered security tags for chain of custody control. Labelled rice bags contained five to seven stream sediment samples in sample number sequence. Rock samples in sealed poly bags were packaged into separate rice bags and sealed with unique numbered security tags. Samples were shipped via commercial freight carrier to ALS Labs in North Vancouver.

One certified reference material (Oreas 47) and one geochemical reference blank (silica sand) were inserted into each shipment of stream sediment samples at random. These materials were unmarked to QAQC the lab stream sediment sample results.

One unmarked certified reference material (Oreas 47) and one unmarked reference blank (coarse garden stone) were also inserted into each rock sample shipment at random to QAQC the rock assay results.

At the lab, any excessively wet stream sediment samples were dried where deemed necessary. A 1,000 g split of the sample was pulverized to 85% passing 75 microns. Each sample was analyzed using ALS method Au-ICP22 for gold analysis. This technique is a 50 g fire assay and ICP-AES. Additionally, a 48 element four acid ICP-MS (ME-MS61m) plus mercury was used for all other recorded analytes on a 0.75 g subsample.

Rock samples were crushed to 70% less than 2mm, then a 250 g riffle split was pulverized to 85% passing 75 microns. Gold analysis was performed using ALS method Au-AA24 which is a 50 g fire assay and atomic absorption spectroscopy. ME-MS61 was used for multi-element analysis. This is a 48 element four acid digest with ICP-MS finish on a 0.25 g subsample.

CONCLUSIONS AND RECOMMENDATIONS

Based on the tectonic environment, and proximity to producing and past producing mines (QR, Mount Polley, Gibraltar) it is suspected that the Cayenne property could host significant economic gold deposits of several types including porphyry, epithermal, intrusion related, and orogenic. The Nicola Group hosts both the Pioneer and Quesnel Quartz deposits. The ICE showing is a molybdenite showing in the Naver Pluton. The ultramafic rocks on the property may have the potential for Listwanite-associated lode gold.

An abundance of glacial and glacial fluvial material cover much of the mineral tenure area. Of the gold anomalies created by stream sediment samples, more weight is given to proximal areas with sub-parallel or back-to-back drainages that produced more than one anomalous sample. The 2016 geophysical surveys highlight the local structural fabrics, and the 2018 geochemical survey has highlighted several areas of anomalous gold in stream sediment values. The 2018 Cayenne exploration program was successful in first pass geochemical sampling having obtained results up to 489 ppb Au. The geochemical sampling program carried out between May 17th and 23rd 2019 produced two high gold in stream sediment samples. The best results of 297 ppb and 232 ppb Au came from samples R000309 and R000305 respectively.

The authors recommend following up on the anomalous samples collected in 2018, and between May 17th and 23rd of 2019, with additional mapping and sampling. A follow up program of geologic mapping is recommended near the PED Minfile showing to further understand the geology, structure, and mineralization, and to evaluate this area as a drill target. A follow up program of soil sampling and further outcrop data capture and sampling is suggested to cover the drainage basins which produced anomalous gold in stream sediment samples.

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CERTIFICATE OF AUTHOR (I)

I, Kyle B. Orr, do hereby certify that:

1. I am currently employed as an Exploration Manager by:

Barkerville Gold Mines Ltd.
3700 Ski Hill Road
Wells, BC
V0K 2R0

2. I graduated with a degree of Bachelor of Science with specialization in Applied and Environmental Geology from University of Calgary in 2015.
3. I worked for an aggregate total of two years as a geologic student in the mineral exploration industry during summer breaks, and semesters away from school prior to graduation.
4. I have worked continuously as a geologist for three and a half years since graduating from university.
5. I am responsible for the preparation of this assessment report.

Dated this 25th Day of August 2019



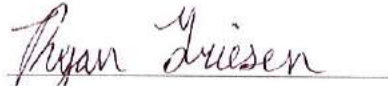
Signature

CERTIFICATE OF AUTHOR (II)

I, Ryan Friesen, B.Sc. do hereby certify that:

1. I am currently employed as a Geologist by:
Barkerville Gold Mines Ltd.
3700 Ski Hill Road
Wells, BC
V0N 2R0
2. I graduated with a degree of Bachelor of Science with specialization in Geology from the University of Victoria in 2013.
3. I worked for five field seasons as a junior geologist, prior to my employment with Barkerville Gold Mines Ltd., for an aggregate total of two years.
4. I have worked continuously as a geologist for three years since graduating from university.
5. I am responsible for the preparation of this report, with Kyle Orr, B.Sc.

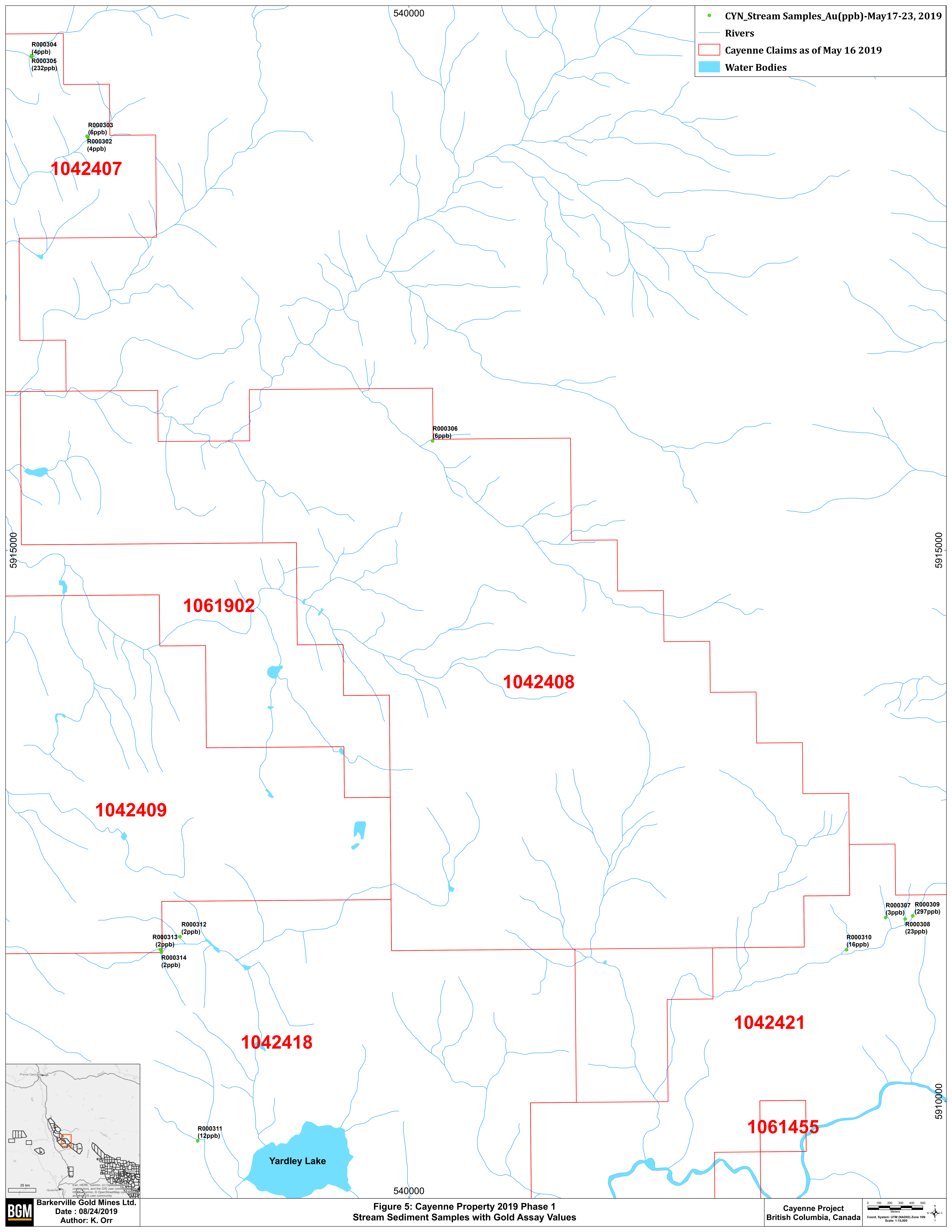
Dated this 8th day of August 2019.


Signature

COST STATEMENT

Cayenne Cost Statement May 17th - 23rd 2019					
Exploration Work type	Comment	Units	Rate	Subtotals	Totals
Personnel (Name)* / Position	Days Worked *includes office and travel days*	Days	Rate	Subtotal	
Mike Frye, Geologist	May 20	1	\$354.00	\$354.00	
Tyler Munnich, Geologist	May 17 - 23	7	\$354.00	\$2,478.00	
Jason Kolcun, Geotechnician	May 18 - 23	6	\$354.00	\$2,124.00	
				\$4,602.00	\$4,602.00
Office Studies	List Personnel	Days	Rate	Subtotal	
Project Preparation	Kyle Orr, Exploration Manager	1	\$500.00	\$500.00	
Database compilation and general reseach	Kyle Orr, Exploration Manager	1	\$500.00	\$500.00	
Report preparation	Kyle Orr, Exploration Manager	2	\$500.00	\$1,000.00	
GIS, QA-QC	Zoe Goodyear, GIS Geologist	2	\$350.00	\$700.00	
				\$2,700.00	\$2,700.00
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal	
Stream Sediment Samples	48 element ICP-MS + Fire Assay	13	\$40.44	\$525.72	
Rock Samples	48 element ICP-MS + Fire Assay	4	\$33.00	\$132.00	
				\$657.72	\$657.72
Transportation	Comments	No. Days	Rate	Subtotal	
Truck rental	1 pickup truck	6	\$49.00	\$294.00	
Fuel	Gas	6	\$30.00	\$180.00	
Flights	Vancouver - Quesnel & PG	1	\$350.00	\$350.00	
				\$474.00	\$474.00
Accommodation & Food	Comments	No. Days	Rate	Subtotal	
Camp	Kreeside Motel	1	\$375.00	\$375.00	
Food	Per Day	6	\$25.00	\$150.00	
				\$525.00	\$525.00
Equipment Rentals	Comments	Units	Rate	Subtotal	
Communication	Radios Rental, Spot GPS, Sat Phone	6	\$12.50	\$75.00	
				\$75.00	\$75.00
Freight, Rock Samples	Comments	Units	Rate	Subtotal	
	VanKam sample shipments to ALS	1	\$150.00	\$150.00	
				\$150.00	\$150.00
PAC Debit	Comments	Units	Rate	Subtotal	
Pac Debit	30% PAC Debit Applied	1	\$3,934.15	\$3,934.15	
				\$3,934.15	\$3,934.15
TOTAL Expenditures					\$13,117.87

APPENDIX A: FIGURE 5 – STREAM SEDIMENT LOCATION MAP



- CYN_Stream Samples_Au(ppb)-May17-23, 2019
- Rivers
- Cayenne Claims as of May 16 2019
- Water Bodies

R000304
(4ppb)
R000305
(232ppb)

R000303
(6ppb)
R000302
(4ppb)

R000306
(6ppb)

R000312
(2ppb)
R000313
(2ppb)
R000314
(2ppb)

R000311
(12ppb)

R000307
(3ppb) R000309
(297ppb)
R000308
(23ppb)
R000310
(16ppb)

1042407

1061902

1042408

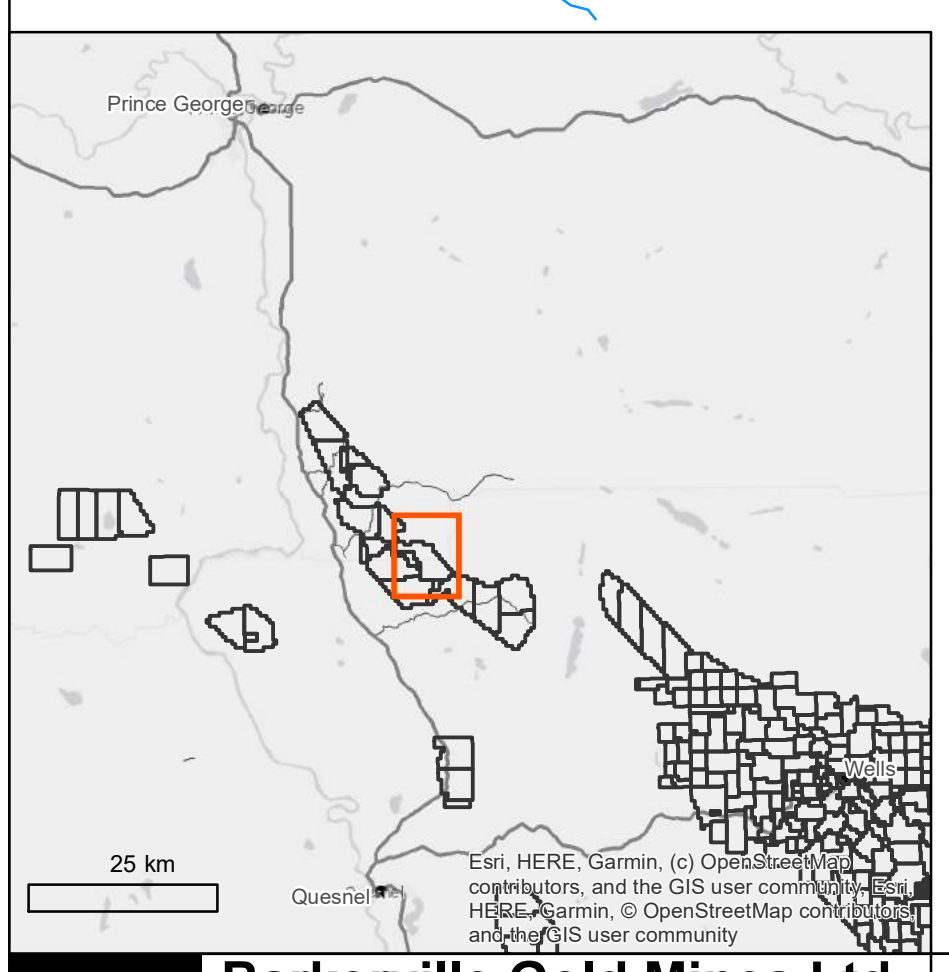
1042409

1042418

1042421

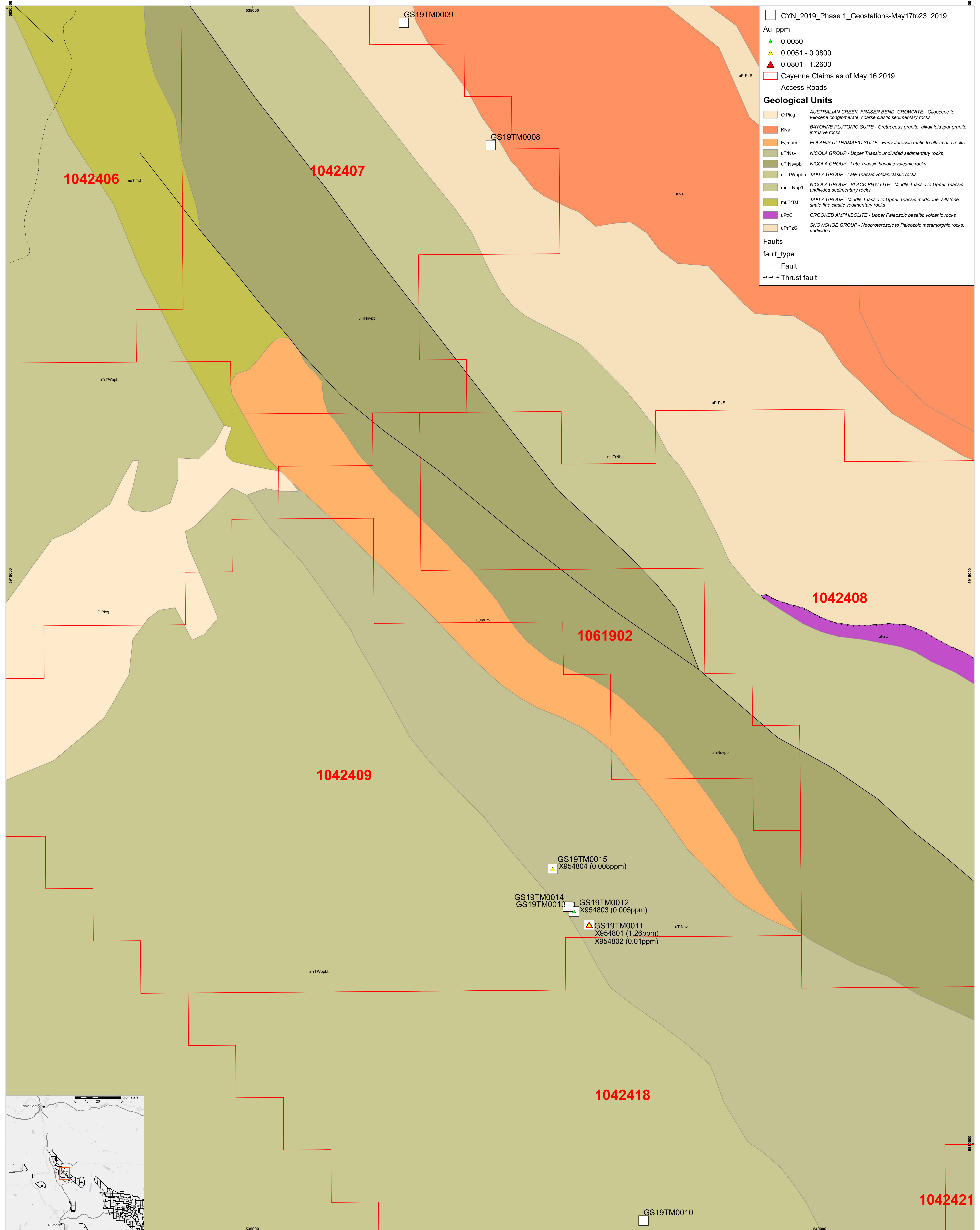
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Yardley Lake



**Figure 5: Cayenne Property 2019 Phase 1
Stream Sediment Samples with Gold Assay Values**

APPENDIX B: FIGURE 6 – ROCK SAMPLE AND GEOSTATION MAP



CYN_2019_Phase 1_Geostations-May17to23, 2019

Au_ppm

- ▲ 0.0050
- ▲ 0.0051 - 0.0800
- ▲ 0.0801 - 1.2600

Cayenne Claims as of May 16 2019

Access Roads

Geological Units

- OIPicg AUSTRALIAN CREEK, FRASER BEND, CROWNITE - Oligocene to Pliocene conglomerate, coarse clastic sedimentary rocks
- KNa BAYONNE PLUTONIC SUITE - Cretaceous granite, alkali feldspar granite intrusive rocks
- EImum POLARIS ULTRAMAFIC SUITE - Early Jurassic mafic to ultramafic rocks
- uTrNsv NICOLA GROUP - Upper Triassic undivided sedimentary rocks
- uTrNsvp NICOLA GROUP - Late Triassic basaltic volcanic rocks
- uTrTWppbb TAKLA GROUP - Late Triassic volcanoclastic rocks
- muTrNbp1 NICOLA GROUP - BLACK PHYLLITE - Middle Triassic to Upper Triassic undivided sedimentary rocks
- muTrTsf TAKLA GROUP - Middle Triassic to Upper Triassic mudstone, siltstone, shale fine clastic sedimentary rocks
- uPzC CROOKED AMPHIBOLITE - Upper Paleozoic basaltic volcanic rocks
- uPrPzS SNOWSHOE GROUP - Neoproterozoic to Paleozoic metamorphic rocks, undivided

Faults

fault_type

- Fault
- ▲▲▲▲ Thrust fault

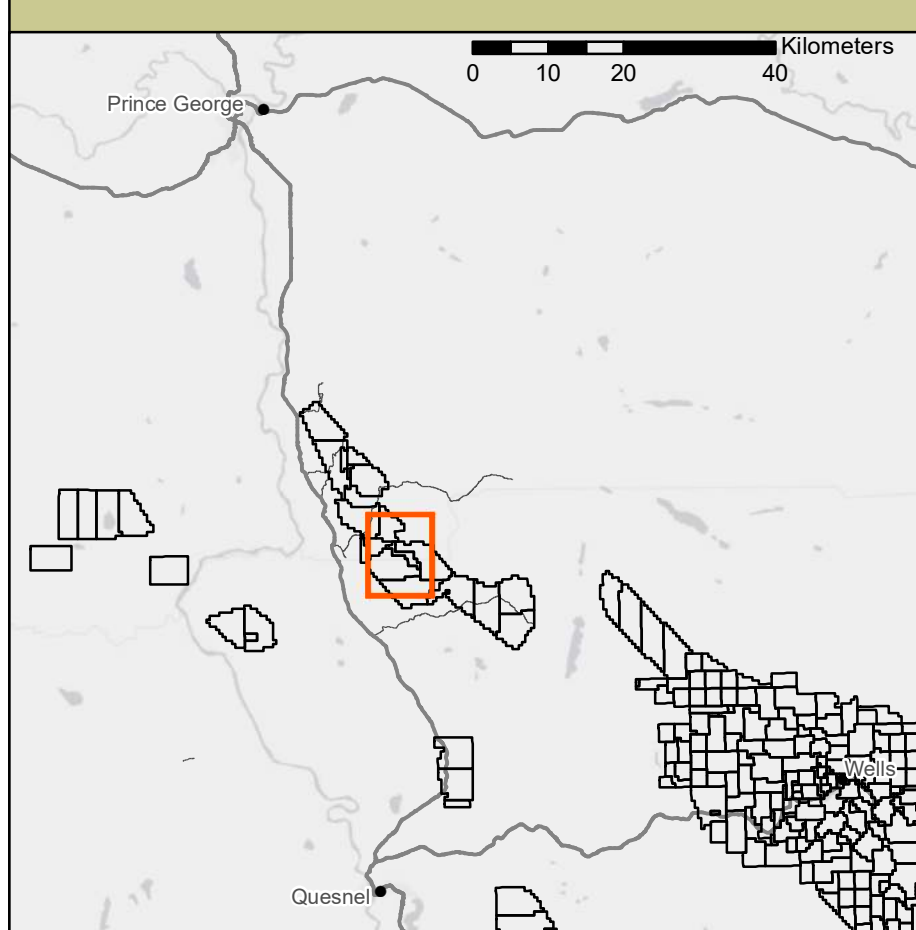


Figure 6. 2019 Cayenne Property Phase 1 Geostations and Rock Samples with Gold Values Over Geology

APPENDIX C: STREAM SEDIMENT SAMPLE DESCRIPTIONS

Stream Sediment Samples Select Data

Sample ID	Prop Sample ID	Easting	Northing	Elevation	Projection	Sampler	GPS Error (m)	Date Sampled	Weight (Kg)	Mesh Size	Sed. Domain	Stream Type	Stream Order	Water pH	Channel Width (m)	Channel Depth (m)
R000302	C68_1	537081	5918756	954	UTM-10N	TM	3	19-May-19	1.44	-80	Sandy	Perennial	2nd	7.75	0.6	0.1
R000303	C67_1	537090	5918745	964	UTM-10N	TM	3	19-May-19	1.53	-80	Sandy	Ephemeral	1st	7.54	0.5	0.1
R000304	C69_1	536578	5919476	953	UTM-10N	JKo	5	20-May-19	1.92	-80	Sandy	Ephemeral	1st	7.24	0.3	0.06
R000305	C70_1	536577	5919487	947	UTM-10N	TM	4	20-May-19	1.73	-80	Sandy	Perennial	2nd	7.56	1	0.25
R000306	C91_1	540215	5915992	986	UTM-10N	TM	4	20-May-19	1.36	-80	Sandy	Ephemeral	1st	6.76	0.2	0.05
R000307	C35_1	544325	5911668	1015	UTM-10N	JKo	3	21-May-19	1.55	-80	Sandy	Ephemeral	1st	6.51	0.6	0.11
R000308	C36_1	544502	5911655	1060	UTM-10N	TM	3	21-May-19	1.73	-80	Sandy	Ephemeral	1st	7.1	0.4	0.05
R000309	C37_1	544571	5911683	1025	UTM-10N	JKo	5	21-May-19	1.53	-80	Sandy	Ephemeral	1st	6.28	0.4	0.07
R000310	C50_1	543970	5911377	988	UTM-10N	TM	4	21-May-19	1.3	-80	Sandy	Ephemeral	1st	6.25	0.2	0.11
R000311	C102_1	538084	5909642	910	UTM-10N	TM	3	22-May-19	1.83	-80	Sandy	Ephemeral	1st	7.54	0.5	0.05
R000312	C100_1	537924	5911495	909	UTM-10N	JKo	3	22-May-19	1.67	-80	Sandy	Ephemeral	1st	6.02	0.7	0.09
R000313	C99_1	537746	5911378	917	UTM-10N	TM	3	23-May-19	1.81	-80	Sandy	Ephemeral	1st	8.05	0.5	0.08
R000314	C98_1	537755	5911352	926	UTM-10N	JKo	3	23-May-19	1.35	-80	Sandy	Ephemeral	1st	7.54	0.2	0.05

APPENDIX D: GEOSTATION DESCRIPTIONS

Geostation Select Data

Station ID	Rock Samples	Easting	Northing	GPS Error (m)	Projection	Geologist	Date	Site Type	Weathering	Sandstone %	Igneous %	Ign. Composition	Ign. Formation	Vein (VN) Type	VN Dip	VN Dip Direct.
GS19TM0008		537100	5918797	9	UTM-10N	TM	19-May-19	OUTCROP	FAINT	-99	100	FELSIC	INTR	NO OBSERVATION	-99	-99
GS19TM0009		536333	5919877	3	UTM-10N	TM	20-May-19	OUTCROP	FRESH	-99	100	FELSIC	INTR	AXPL-QV	6	252
GS19TM0010		538447	5909320	3	UTM-10N	TM	22-May-19	OUTCROP	FAINT	-99	100	MAFIC	VOLC	NO OBSERVATION	-99	-99
GS19TM0011	X954801, X954802	537968	5911926	3	UTM-10N	TM	23-May-19	OUTCROP	FAINT	-99	100	MAFIC	VOLC	AXPL-QV	78	139
GS19TM0012	X954803	537835	5912044	3	UTM-10N	TM	23-May-19	OUTCROP	FRESH	-99	100	MAFIC	VOLC	NO OBSERVATION	-99	-99
GS19TM0013		537781	5912087	3	UTM-10N	TM	23-May-19	OUTCROP	SLIGHT	100	-99	NO OBSERVATION	NO OBSERVATION	NO OBSERVATION	-99	-99
GS19TM0014		537795	5912081	3	UTM-10N	TM	23-May-19	OUTCROP	FRESH	-99	100	MAFIC	VOLC	NO OBSERVATION	-99	-99
GS19TM0015	X954804	537647	5912420	6	UTM-10N	TM	23-May-19	OUTCROP	FRESH	-99	100	MAFIC	VOLC	NO OBSERVATION	-99	-99

APPENDIX E: ROCK SAMPLE DESCRIPTIONS

Rock Samples Select Data

Station ID	Easting	Northing	Elevation	Projection	Sampler	GPS Error (m)	Date	Site Type	Sample Type	Weathering	Lith. Primary	Vein Sample	Host_Lith	Py %	Apy %
X954804	537647	5912420	945	UTM-10N	JKo	3	23-May-19	OUTCROP	SELECT	FRESH	N/O	Y	VOLC	-99	-99
X954803	537835	5912044	935	UTM-10N	JKo	3	23-May-19	OUTCROP	SELECT	FAINT	VOLC	Y	VOLC	-99	-99
X954802	537968	5911926	937	UTM-10N	JKo	3	23-May-19	OUTCROP	SELECT	MODERATE	VOLC	Y	VOLC	-99	-99
X954801	537968	5911926	937	UTM-10N	JKo	3	23-May-19	OUTCROP	SELECT	SLIGHT	MVOLC	N	N/O	-99	30

APPENDIX F: STREAM SEDIMENT ASSAY 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: **BARKERVILLE GOLD MINES LTD.**
SUITE 1410, 155 UNIVERSITY AVENUE
TORONTO ON M5H 3B7

Page: 1
Total # Pages: 3 (A - D)
Plus Appendix Pages
Finalized Date: 13-JUN-2019
This copy reported on
27-JUN-2019
Account: BAGOWE

VA19130148

Project: BGM-Regional Stream Sediments
 P.O. No.: PO9611
 This report is for 43 Sediment samples submitted to our lab in Vancouver, BC,
 Canada on 29-MAY-2019.

The following have access to data associated with this certificate:

EXPLORATION ASSAYS

MATT CARTER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Hg-MS42	Trace Hg by ICPMS	ICP-MS
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
ME-MS61	48 element four acid 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
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To: BARKERVILLE GOLD MINES LTD.
 SUITE 1410, 155 UNIVERSITY AVENUE
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Page: 2 - A
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 13-JUN-2019
 Account: BAGOWE

Project: BGM-Regional Stream Sediments

CERTIFICATE OF ANALYSIS VA19130148

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP22	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
R000302		1.24	0.004	0.14	6.80	7.1	700	1.71	0.25	2.18	0.14	94.9	13.8	147	2.60	19.6
R000303		1.20	0.006	0.25	7.06	10.0	620	1.91	0.32	2.55	0.23	107.5	17.5	148	4.91	35.3
R000304		1.46	0.004	0.25	6.92	5.3	690	1.68	0.24	1.84	0.33	82.7	15.4	161	2.48	19.9
R000305		1.50	0.232	0.13	6.81	5.8	840	1.59	0.17	1.67	0.23	99.4	14.0	100	2.18	16.0
R000306		1.20	0.006	0.12	6.10	5.4	610	1.61	0.33	1.15	0.30	96.1	15.8	206	2.61	15.5
R000307		1.28	0.003	0.18	5.85	3.0	680	1.45	0.16	1.39	0.26	69.6	8.5	124	1.82	11.5
R000308		1.48	0.023	0.19	5.48	2.2	630	1.28	0.12	1.55	0.38	69.3	8.5	145	1.61	12.7
R000309		1.20	0.297	0.18	5.56	6.4	610	1.44	0.15	1.41	0.46	78.9	19.7	212	2.06	12.8
R000310		0.92	0.016	0.40	5.67	5.4	660	1.38	0.90	1.47	0.44	71.3	11.1	210	2.24	16.2
R000311		1.44	0.012	0.38	6.20	11.8	730	1.14	0.17	2.32	0.34	44.4	17.2	149	1.89	63.7
R000312		1.32	0.002	0.56	6.54	4.5	750	0.90	0.12	1.23	0.29	37.8	13.3	129	2.11	28.8
R000313		1.56	0.002	0.15	5.80	12.4	830	0.85	0.10	1.70	0.30	37.6	16.8	150	1.34	38.3
R000314		1.08	0.002	0.44	5.61	108.5	710	0.87	0.12	2.14	0.46	30.8	35.4	589	4.68	70.2
R000315		1.24	<0.001	0.13	5.99	7.4	670	1.68	0.35	1.20	0.28	76.4	22.3	278	3.15	16.5
R000316		1.36	<0.001	0.11	5.93	6.9	600	1.86	0.64	1.32	0.26	78.2	20.7	258	3.36	15.7
R000317		1.04	<0.001	0.23	5.58	7.5	560	1.44	0.52	0.96	0.32	74.6	27.4	388	3.47	17.3
R000318		1.32	0.001	0.58	5.94	11.2	610	2.00	0.40	1.16	0.79	69.1	27.0	383	4.11	31.0
R000319		1.52	0.001	0.09	5.67	10.8	700	1.39	0.23	1.61	0.31	74.4	20.2	504	2.23	13.8
R000320		1.08	0.001	0.10	6.11	4.9	730	1.14	0.12	1.97	0.28	55.4	14.4	140	1.41	26.3
R000321		1.46	0.001	0.10	6.19	1.6	770	1.19	0.14	1.64	0.25	56.9	7.5	81	1.48	16.3
R000322		1.26	<0.001	0.10	4.98	2.1	620	1.01	0.11	1.28	0.11	110.0	7.5	96	1.39	9.1
R000352		0.10	0.042	0.12	6.36	10.2	500	1.00	0.17	2.37	0.50	55.7	53.7	91	2.13	155.5
R000405		0.54	<0.001	0.01	0.03	0.4	180	<0.05	0.02	20.6	0.06	1.01	0.5	<1	0.46	1.9
R000406		0.10	0.053	0.14	6.55	10.0	510	0.99	0.16	2.47	0.51	57.2	53.2	94	2.15	159.0
R002502		1.46	0.003	0.15	5.44	14.3	680	0.97	0.21	1.97	0.43	62.8	18.0	178	1.63	35.7
R002503		1.22	0.004	0.16	5.20	14.9	640	0.92	0.19	1.92	0.41	55.2	17.3	152	1.59	39.2
R002504		1.18	0.006	0.17	5.18	15.3	640	0.96	0.31	1.92	0.45	59.1	18.4	160	1.64	41.5
R002505		1.48	0.003	0.13	5.16	5.7	700	0.87	0.11	1.88	0.29	50.5	9.7	155	2.73	18.5
R002506		1.10	0.004	0.43	5.85	13.1	690	1.14	0.15	1.98	0.65	65.3	18.4	188	1.98	47.1
R002507		1.18	0.006	0.85	6.29	19.7	750	1.26	0.21	1.94	1.17	51.2	18.9	114	2.50	62.5
R002508		1.24	0.004	0.32	5.93	26.2	660	1.25	0.17	1.91	0.52	73.3	18.4	208	1.97	30.7
R002509		1.32	0.003	0.30	5.44	16.3	670	1.13	0.14	1.74	0.50	79.6	12.2	171	1.82	18.2
R002510		0.86	0.003	0.41	6.19	9.5	710	1.50	0.22	1.43	1.21	81.9	15.9	169	2.77	26.6
R002511		1.16	0.773	0.29	5.95	19.0	630	1.42	0.21	1.94	0.85	83.1	17.4	228	5.25	25.3
R002512		1.22	0.167	0.29	5.78	11.2	660	1.29	0.18	1.87	0.74	83.6	14.7	181	2.08	24.6
R002513		1.42	0.016	0.26	6.32	4.5	630	1.18	0.15	2.69	0.47	58.4	17.4	173	1.63	26.8
R002600		1.20	0.011	1.09	6.28	102.0	850	1.19	0.52	2.15	1.35	50.2	21.6	171	3.69	65.2
R002627		0.98	0.006	0.59	5.75	7.0	710	1.00	0.13	2.25	1.50	43.4	18.9	81	2.42	49.6
R002628		1.20	0.161	0.22	6.13	14.1	730	1.25	0.15	1.92	0.51	59.1	16.7	133	1.90	28.6
R002629		1.22	0.013	0.17	5.97	24.3	720	1.13	0.24	1.53	0.32	51.6	15.4	127	2.01	42.9



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
R000302		3.47	14.30	0.12	1.0	0.048	0.045	1.24	50.1	48.0	0.98	846	0.83	1.66	14.9	49.3
R000303		4.00	14.25	0.19	0.9	0.069	0.048	1.16	69.0	49.8	1.14	803	0.84	1.50	12.5	78.8
R000304		3.71	14.35	0.10	1.1	0.060	0.045	1.23	43.4	29.3	1.01	1100	1.21	1.54	14.2	61.6
R000305		2.98	14.05	0.10	0.9	0.043	0.035	1.33	52.8	30.3	0.69	1400	1.08	1.89	9.8	38.9
R000306		2.98	13.05	0.12	1.1	0.045	0.038	1.31	49.3	27.0	1.02	831	1.38	1.32	10.6	86.8
R000307		2.23	12.00	0.12	1.5	0.038	0.037	1.33	35.4	17.7	0.74	447	1.46	1.55	13.6	51.9
R000308		2.07	10.55	0.09	1.4	0.057	0.032	1.18	33.9	20.8	0.75	486	1.25	1.41	12.0	56.3
R000309		2.86	11.90	0.09	1.3	0.050	0.041	1.21	39.4	23.3	0.89	781	1.38	1.33	13.5	81.8
R000310		2.78	11.75	0.09	1.3	0.046	0.039	1.24	37.5	19.3	0.87	707	1.75	1.33	12.7	63.1
R000311		4.19	12.70	0.10	1.4	0.073	0.048	1.12	24.9	19.1	1.18	887	0.98	1.33	6.8	59.2
R000312		3.23	14.20	0.06	1.7	0.065	0.049	1.13	20.7	15.3	0.90	505	1.11	1.11	7.9	50.0
R000313		4.18	12.50	0.08	1.4	0.038	0.050	1.13	19.5	12.6	1.02	712	1.03	1.36	7.4	56.7
R000314		5.80	11.20	0.07	1.0	0.070	0.051	0.87	16.9	23.3	4.33	1080	1.06	0.92	3.4	266
R000315		3.17	13.30	0.09	1.0	0.054	0.039	1.45	39.9	26.1	1.44	923	1.34	1.21	10.5	135.5
R000316		3.02	13.30	0.10	1.4	0.034	0.039	1.45	41.1	27.7	1.12	865	1.22	1.21	10.7	111.5
R000317		3.16	13.85	0.14	1.2	0.076	0.033	1.23	38.3	28.0	1.27	893	1.32	1.02	11.1	118.0
R000318		3.45	13.55	0.16	1.4	0.071	0.039	1.25	39.2	34.2	1.72	905	2.25	0.81	11.0	236
R000319		3.19	12.20	0.13	1.4	0.018	0.032	1.38	36.6	20.5	1.54	874	1.50	1.29	14.1	137.5
R000320		3.76	13.40	0.13	1.4	0.041	0.037	1.20	27.1	14.8	0.95	964	0.77	1.74	9.3	41.7
R000321		1.89	13.35	0.13	1.3	0.026	0.030	1.26	29.7	14.0	0.53	402	0.44	1.96	9.1	26.6
R000322		2.13	11.20	0.17	1.0	0.049	0.024	1.03	60.0	11.6	0.39	631	0.65	1.48	8.4	16.5
R000352		2.75	14.95	0.14	1.9	0.013	0.060	1.15	30.0	44.3	0.97	501	13.25	2.57	18.3	92.5
R000405		0.05	0.17	0.16	<0.1	<0.005	<0.005	0.01	0.7	6.8	13.30	413	0.14	0.02	0.1	<0.2
R000406		2.83	15.20	0.14	1.9	0.012	0.057	1.19	30.1	44.5	1.01	516	13.40	2.65	18.7	93.9
R002502		4.32	12.85	0.14	1.5	0.024	0.052	1.05	31.0	13.7	1.05	1510	1.79	1.38	12.4	49.2
R002503		3.91	12.55	0.13	1.4	0.032	0.048	1.00	26.5	13.1	1.06	1300	1.74	1.29	12.6	49.5
R002504		4.02	13.00	0.13	1.4	0.032	0.050	0.99	28.6	14.0	1.08	1420	1.91	1.24	12.4	54.3
R002505		2.64	11.55	0.12	1.3	0.030	0.035	1.08	25.2	12.2	0.80	1020	3.91	1.61	9.9	64.5
R002506		4.40	14.45	0.14	1.9	0.106	0.051	1.11	34.2	19.7	1.08	1150	1.74	1.15	13.6	59.8
R002507		4.79	15.15	0.14	2.1	0.145	0.062	1.04	28.7	22.5	1.05	2290	3.11	0.90	10.2	78.3
R002508		4.14	13.95	0.16	1.6	0.021	0.049	1.15	37.1	16.9	1.25	864	2.86	1.32	11.4	66.6
R002509		3.06	12.35	0.16	1.5	0.029	0.039	1.12	39.8	16.2	1.06	769	2.27	1.28	11.8	46.2
R002510		3.35	13.90	0.16	1.6	0.055	0.039	1.19	39.2	22.1	0.91	1290	9.86	1.17	11.3	60.4
R002511		3.62	14.00	0.17	1.6	0.051	0.046	1.13	42.8	26.5	1.65	805	1.54	1.06	11.2	251
R002512		3.43	13.00	0.17	1.5	0.044	0.042	1.12	41.8	17.5	1.04	918	2.17	1.28	11.4	60.9
R002513		4.06	14.20	0.14	1.5	0.050	0.050	1.01	29.1	16.1	1.47	964	1.82	1.47	9.8	52.1
R002600		4.94	14.25	0.15	1.6	0.109	0.060	1.13	25.6	25.1	1.19	3280	7.19	1.09	8.1	122.0
R002627		3.50	13.35	0.12	1.6	0.113	0.048	0.99	21.3	22.0	0.90	2110	1.67	0.89	8.0	60.2
R002628		3.98	14.70	0.14	1.7	0.061	0.043	1.22	29.3	16.6	0.99	991	1.30	1.58	11.1	46.9
R002629		4.14	14.35	0.13	1.7	0.033	0.047	1.12	25.9	13.3	0.90	804	3.19	1.46	10.7	66.9



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
R000302		650	13.4	59.7	<0.002	0.02	0.58	12.1	1	1.4	359	1.00	<0.05	12.95	0.513	0.32
R000303		890	13.6	58.4	<0.002	0.05	0.60	16.7	1	1.4	327	0.78	<0.05	12.55	0.505	0.36
R000304		960	12.8	60.1	<0.002	0.03	0.50	12.8	<1	1.4	316	0.89	<0.05	11.60	0.530	0.36
R000305		750	13.6	56.4	<0.002	0.03	0.47	8.9	1	1.2	373	0.64	<0.05	15.75	0.392	0.39
R000306		690	14.7	65.3	<0.002	0.03	0.44	8.7	<1	1.4	223	1.17	<0.05	13.50	0.386	0.41
R000307		810	11.0	55.2	<0.002	0.02	0.48	8.6	<1	1.6	249	0.89	<0.05	8.42	0.403	0.38
R000308		710	9.9	46.6	<0.002	0.05	0.53	8.6	1	1.5	252	1.04	<0.05	8.03	0.361	0.34
R000309		990	11.6	54.5	<0.002	0.05	0.64	9.2	1	1.6	225	1.05	<0.05	12.50	0.401	0.40
R000310		770	10.6	51.8	0.002	0.03	0.56	9.7	1	1.5	230	0.90	<0.05	9.17	0.427	0.37
R000311		720	9.0	46.9	0.002	0.03	1.36	18.6	1	1.0	299	0.47	<0.05	4.53	0.438	0.32
R000312		1100	8.7	50.7	<0.002	0.04	1.04	15.5	1	1.1	226	0.50	<0.05	4.09	0.500	0.34
R000313		710	7.4	39.7	<0.002	0.01	1.61	16.6	<1	0.9	291	0.49	<0.05	3.62	0.517	0.24
R000314		1350	8.8	46.7	<0.002	0.06	1.84	27.3	1	0.7	236	0.23	<0.05	2.97	0.352	0.24
R000315		730	14.5	69.9	<0.002	0.03	0.53	9.5	<1	1.5	211	0.70	<0.05	10.90	0.374	0.45
R000316		600	14.8	70.9	<0.002	0.03	0.70	8.6	<1	1.6	208	0.87	<0.05	12.00	0.360	0.44
R000317		880	14.3	62.1	<0.002	0.04	0.59	9.3	<1	1.5	176.0	0.97	<0.05	11.15	0.376	0.39
R000318		1410	15.1	66.9	<0.002	0.06	0.58	11.1	1	1.5	165.5	0.78	<0.05	9.59	0.384	0.43
R000319		830	12.1	53.3	<0.002	0.01	0.58	9.9	1	1.6	246	1.07	<0.05	9.90	0.447	0.38
R000320		790	9.2	40.7	<0.002	0.01	1.04	12.2	1	1.0	342	0.67	<0.05	7.15	0.512	0.30
R000321		640	10.6	42.9	<0.002	0.03	0.67	9.0	1	1.0	363	0.64	<0.05	7.75	0.424	0.34
R000322		530	9.3	37.3	<0.002	0.02	0.56	7.0	1	0.8	289	0.64	<0.05	21.3	0.414	0.26
R000352		580	292	36.7	<0.002	0.05	0.33	8.9	<1	4.5	425	0.40	<0.05	3.63	0.221	0.24
R000405		30	1.2	0.7	<0.002	<0.01	0.08	0.1	1	<0.2	165.0	<0.05	<0.05	0.06	<0.005	0.06
R000406		600	303	37.1	<0.002	0.05	0.33	9.0	1	4.6	438	0.42	<0.05	3.69	0.226	0.25
R002502		820	9.6	37.4	<0.002	0.02	2.08	13.1	1	1.2	256	0.77	0.05	5.21	0.691	0.32
R002503		830	9.3	36.6	<0.002	0.02	2.31	13.7	1	1.2	250	0.79	0.06	4.81	0.671	0.31
R002504		820	9.8	37.5	<0.002	0.03	2.38	14.6	1	1.2	244	0.82	0.07	4.81	0.658	0.31
R002505		600	6.1	47.7	0.007	0.11	1.80	10.4	2	1.0	290	0.68	<0.05	4.40	0.510	0.39
R002506		910	9.9	46.1	0.005	0.06	2.34	15.0	2	1.3	234	0.94	<0.05	5.90	0.645	0.34
R002507		1490	11.7	48.5	0.011	0.09	2.51	16.7	2	1.2	217	0.65	0.06	6.18	0.454	0.41
R002508		850	11.1	47.2	<0.002	0.04	1.15	15.3	2	1.4	253	0.80	<0.05	8.88	0.561	0.35
R002509		600	10.6	43.7	<0.002	0.03	0.79	12.8	1	1.3	248	0.86	<0.05	9.07	0.528	0.39
R002510		1020	12.6	55.5	0.010	0.04	0.70	13.1	2	1.5	229	0.82	<0.05	9.46	0.410	0.47
R002511		1410	13.1	63.5	0.002	0.06	0.70	12.7	2	1.5	229	0.80	<0.05	10.45	0.439	0.45
R002512		920	11.9	46.9	0.002	0.04	0.96	12.8	2	1.3	268	0.84	<0.05	9.83	0.492	0.41
R002513		1000	10.2	39.2	0.005	0.05	1.10	19.2	1	1.2	367	0.68	<0.05	6.31	0.557	0.29
R002600		1090	10.9	55.0	0.004	0.07	3.86	16.3	3	1.1	251	0.51	0.13	5.56	0.422	0.70
R002627		1440	8.6	45.7	0.012	0.14	1.32	13.0	3	1.1	215	0.52	<0.05	4.70	0.379	0.39
R002628		1140	10.4	47.4	0.003	0.04	2.12	12.4	1	1.2	293	0.71	<0.05	6.00	0.525	0.39
R002629		680	8.7	43.3	<0.002	0.03	3.69	12.4	1	1.1	289	0.64	0.07	4.81	0.607	0.45



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		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
R000302		6.7	89	1.6	22.0	54	39.2
R000303		6.6	95	1.3	34.7	66	33.9
R000304		4.2	92	1.0	19.2	69	38.2
R000305		4.8	72	1.0	17.6	67	35.9
R000306		4.2	77	1.2	15.8	59	42.5
R000307		3.0	73	0.8	17.8	57	54.1
R000308		8.4	64	1.1	19.2	60	46.1
R000309		20.0	84	1.5	20.5	76	45.7
R000310		2.5	88	1.3	19.3	65	50.7
R000311		1.6	135	0.9	22.3	72	51.3
R000312		1.5	107	0.8	12.7	71	56.7
R000313		1.2	136	0.7	13.8	85	49.9
R000314		1.3	167	0.6	18.7	90	36.3
R000315		3.1	85	2.0	15.5	65	43.5
R000316		3.7	73	2.1	15.5	58	44.7
R000317		3.1	80	3.6	13.9	65	45.5
R000318		3.0	92	2.5	22.0	144	44.5
R000319		2.7	89	3.0	17.9	84	46.6
R000320		1.8	117	0.8	17.4	68	48.7
R000321		3.2	75	0.7	99.8	48	53.1
R000322		3.5	64	0.7	13.6	32	34.2
R000352		0.7	60	0.2	11.2	232	66.9
R000405		0.3	3	0.1	0.5	18	0.6
R000406		0.8	61	0.3	11.2	238	68.1
R002502		1.3	140	2.6	20.5	88	51.6
R002503		1.4	129	1.6	18.9	86	47.3
R002504		1.4	131	1.5	20.0	88	59.0
R002505		1.5	92	1.5	15.0	56	43.4
R002506		5.9	132	1.4	32.2	106	66.9
R002507		8.3	119	1.2	28.5	127	72.7
R002508		2.0	143	1.2	20.2	83	52.3
R002509		2.0	111	1.3	19.3	73	48.8
R002510		4.4	110	1.4	22.2	105	52.4
R002511		2.7	101	1.5	21.5	107	58.1
R002512		2.3	119	1.4	20.1	87	53.4
R002513		1.6	150	1.2	21.2	77	48.9
R002600		2.1	134	1.9	21.2	156	52.2
R002627		3.0	91	0.8	18.8	135	57.9
R002628		2.5	118	1.5	19.1	108	65.0
R002629		1.4	130	1.7	15.5	112	58.7



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Project: BGM-Regional Stream Sediments

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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
R002630		1.18	0.005	1.19	6.51	25.7	830	1.22	0.22	2.21	0.88	45.0	18.4	127	2.68	63.0
R002631		0.94	0.006	0.84	6.55	20.4	750	1.12	0.22	1.75	1.00	56.0	17.1	139	2.42	73.1
R002632		1.38	0.078	0.31	6.16	16.8	760	1.05	0.19	1.83	0.56	55.1	19.1	133	2.16	52.9



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Project: BGM-Regional Stream Sediments

CERTIFICATE OF ANALYSIS VA19130148

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-MS42	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
R002630		5.10	15.40	0.13	1.9	0.112	0.064	1.07	24.7	25.0	1.12	2670	3.29	0.96	9.4	89.7
R002631		4.77	15.25	<0.05	1.9	0.093	0.056	1.14	28.5	15.5	1.11	1020	2.56	1.08	9.1	78.8
R002632		4.44	14.60	0.05	2.0	0.056	0.051	1.21	27.8	13.2	1.14	1260	2.14	1.32	10.2	65.0

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



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CERTIFICATE OF ANALYSIS	VA19130148
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		ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
Sample Description	Method Analyte Units LOD	P ppm 10	Pb ppm 0.5	Rb ppm 0.1	Re ppm 0.002	S % 0.01	Sb ppm 0.05	Sc ppm 0.1	Se ppm 1	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.05	Te ppm 0.05	Th ppm 0.01	Ti % 0.005	Tl ppm 0.02
R002630		1580	11.2	47.7	0.011	0.10	2.77	17.8	3	1.2	230	0.61	0.06	5.92	0.467	0.39
R002631		1170	14.1	50.9	0.003	0.05	2.76	16.7	1	1.1	225	0.61	0.07	5.66	0.489	0.41
R002632		960	12.6	50.2	0.002	0.03	2.35	15.2	1	1.1	252	0.64	0.05	5.47	0.551	0.41



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Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
R002630		2.7	119	1.9	22.6	146	68.2
R002631		2.3	127	2.0	26.1	144	64.2
R002632		1.8	131	1.5	22.6	110	75.3



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CERTIFICATE OF ANALYSIS VA19130148

CERTIFICATE COMMENTS													
	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Applies to Method: REE's may not be totally soluble in this method. ME-MS61</p> <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>Applies to Method: Au-ICP22</td><td>BAG-01</td><td>Hg-MS42</td><td>LOG-21</td></tr><tr><td>LOG-23</td><td>ME-MS61</td><td>PUL-32</td><td>PUL-QC</td></tr><tr><td>SPL-21</td><td>WEI-21</td><td></td><td></td></tr></table>	Applies to Method: Au-ICP22	BAG-01	Hg-MS42	LOG-21	LOG-23	ME-MS61	PUL-32	PUL-QC	SPL-21	WEI-21		
Applies to Method: Au-ICP22	BAG-01	Hg-MS42	LOG-21										
LOG-23	ME-MS61	PUL-32	PUL-QC										
SPL-21	WEI-21												

APPENDIX G: ROCK ASSAY CERTIFICATES



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VA19130143

Project: BGM-Regional Rocks
 P.O. No.: PO9611
 This report is for 28 Rock samples submitted to our lab in Vancouver, BC, Canada on 29-MAY-2019.

The following have access to data associated with this certificate:

EXPLORATION ASSAYS

MATT CARTER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPLIT-Z	Pulp split for send out
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-32m	Pulverize 500g - 85%<75um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
S-OG62	Ore Grade S- Four Acid	

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



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CERTIFICATE OF ANALYSIS VA19130143

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
X954051		2.68	0.06	1.97	2.4	710	3.95	0.22	0.48	0.05	7.12	4.6	29	0.40	20.3	1.58
X954052		2.42	0.21	5.45	6300	390	1.13	0.01	3.39	0.21	9.97	9.7	9	0.96	14.6	8.41
X954053		2.26	0.01	0.79	12.2	70	0.18	0.02	0.35	0.05	5.50	1.7	20	0.13	5.2	0.63
X954054		2.96	0.06	1.48	55.0	360	0.19	0.01	2.37	0.24	5.53	4.6	45	0.57	45.9	1.26
X954055		2.38	0.05	0.86	9.0	260	0.46	0.02	17.40	0.38	8.01	4.0	17	0.24	14.3	1.03
X954851		1.58	0.06	0.35	11.9	150	0.16	0.05	0.09	0.06	3.45	2.1	21	0.28	5.7	0.72
X954852		1.26	0.03	0.77	2.4	380	0.23	0.12	0.16	0.02	12.15	2.2	19	0.28	8.4	0.63
X954853		1.22	0.62	4.78	7040	400	1.76	0.01	2.16	2.29	20.4	7.7	14	0.84	7.9	4.73
X954854		0.72	0.20	4.19	>10000	500	2.10	0.01	13.00	0.85	19.80	14.5	7	1.07	2.9	11.40
X954855		1.72	0.09	7.79	58.2	450	1.09	0.02	2.37	0.16	76.4	52.0	63	4.02	60.1	9.93
X954856		3.86	0.03	7.61	78.4	1850	1.81	0.05	1.35	0.05	37.6	2.5	8	1.73	15.7	1.48
X954857		2.34	0.01	0.42	6.0	110	0.13	0.02	13.35	0.07	7.95	1.2	12	0.25	4.6	0.43
X954858		3.16	0.08	1.32	10.2	450	0.25	0.17	1.11	0.22	19.85	4.3	26	0.50	22.4	1.04
X954859		1.60	0.02	0.53	4.8	150	0.13	0.05	0.09	0.08	5.29	1.0	21	0.26	4.0	0.62
X954860		1.58	0.31	6.40	16.6	1470	1.34	0.15	0.39	4.87	30.9	16.4	167	4.46	78.4	4.60
X954861		2.80	0.14	0.49	14.4	70	0.05	0.11	3.27	0.67	2.95	1.5	39	0.19	6.1	0.63
X954801		1.94	0.87	0.13	>10000	50	<0.05	3.45	0.03	0.05	0.75	343	3	<0.05	5.3	32.0
X954802		2.00	0.03	0.17	1020	50	<0.05	0.04	0.06	0.09	3.29	1.8	16	0.06	5.7	0.64
X954803		1.28	0.01	0.61	1430	70	<0.05	0.05	0.04	0.18	3.10	2.5	22	0.10	4.4	0.80
X954804		1.66	0.02	0.25	102.0	20	<0.05	0.02	0.04	0.07	0.69	0.8	26	<0.05	1.6	0.52
X954805		1.56	0.21	7.33	31.0	1340	1.25	0.50	0.06	1.45	12.30	1.4	5	1.46	5.1	0.63
X954806		2.06	0.04	0.65	68.0	160	0.12	0.02	5.60	3.18	3.49	1.7	23	0.24	9.3	0.62
X954901		1.20	0.07	7.05	13.2	480	1.03	0.03	13.65	0.14	16.60	19.1	49	<0.05	61.4	4.86
X954902		1.54	0.08	7.38	14.5	860	0.83	0.05	7.62	0.13	19.80	38.0	357	1.85	138.0	6.99
X954903		2.64	0.38	6.67	21.9	1260	2.74	1.49	0.60	0.35	37.6	2.1	7	1.74	46.3	0.94
X954904		1.18	0.63	6.18	83.7	570	1.24	0.17	7.66	8.87	27.3	8.5	94	2.52	75.8	3.74
X954951		0.52	0.01	0.05	19.5	380	0.05	0.02	19.30	0.05	0.72	0.4	1	0.38	1.3	0.07
X954952		0.10	0.11	6.04	27.7	480	0.93	0.15	2.25	0.52	55.2	51.8	91	1.97	152.0	2.65



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Project: BGM-Regional Rocks

CERTIFICATE OF ANALYSIS VA19130143

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
X954051		11.95	<0.05	0.9	0.032	2.12	3.5	21.0	0.42	727	3.06	0.59	11.4	35.4	210	26.1
X954052		21.2	0.06	0.1	0.052	1.25	4.1	15.8	2.44	2110	1.76	0.99	1.8	5.1	620	3.2
X954053		1.69	<0.05	0.1	0.009	0.17	2.4	1.5	0.13	237	1.18	0.33	1.0	7.2	130	1.3
X954054		2.88	0.05	0.3	0.008	0.35	2.7	4.1	0.46	372	2.11	0.53	0.6	12.3	260	0.5
X954055		1.73	0.07	0.1	0.048	0.16	4.5	2.8	0.39	1680	1.79	0.24	0.1	8.6	50	6.6
X954851		0.97	<0.05	0.1	0.009	0.14	1.9	1.0	0.07	579	1.90	0.09	0.9	5.6	110	4.9
X954852		2.28	0.06	0.3	0.052	0.41	7.3	2.2	0.13	313	1.49	0.12	1.5	3.9	300	2.1
X954853		10.25	0.06	0.2	0.051	1.37	8.5	2.1	0.41	2060	2.33	1.55	1.7	12.7	970	22.9
X954854		9.96	0.06	0.2	0.087	1.77	7.9	3.3	2.78	5580	0.40	0.48	1.9	10.0	870	23.0
X954855		21.1	0.15	1.1	0.122	1.01	34.1	26.8	2.99	1800	2.27	2.57	38.4	32.1	2210	1.4
X954856		20.3	0.07	0.7	0.020	2.80	19.0	21.9	0.35	314	2.80	3.41	7.6	1.6	670	13.0
X954857		1.16	0.10	0.1	0.009	0.14	6.3	2.0	0.26	443	0.77	0.03	0.6	1.7	70	2.0
X954858		3.09	0.08	0.4	0.020	0.32	8.3	3.0	0.28	988	1.42	0.44	2.1	16.0	320	5.8
X954859		1.51	<0.05	0.1	0.010	0.17	2.5	1.4	0.11	377	1.38	0.08	1.1	3.8	230	3.7
X954860		14.80	0.10	1.8	0.058	2.27	17.5	35.7	2.01	405	10.40	1.03	3.4	136.0	1040	10.4
X954861		0.80	0.05	0.1	0.014	0.09	1.7	2.6	0.47	223	2.26	0.20	0.1	22.5	210	11.5
X954801		0.29	0.34	<0.1	0.063	0.07	<0.5	0.3	0.02	66	4.80	0.04	0.1	49.2	40	18.0
X954802		0.37	<0.05	<0.1	0.009	0.04	1.5	0.6	0.03	569	1.31	0.04	0.1	2.3	40	1.5
X954803		0.84	<0.05	0.1	<0.005	0.11	1.6	1.2	0.04	260	1.59	0.29	0.2	2.2	160	0.7
X954804		0.40	<0.05	<0.1	<0.005	0.02	<0.5	0.4	0.02	85	2.06	0.14	0.1	1.5	30	0.7
X954805		17.80	0.05	2.1	0.018	1.68	6.4	3.5	0.10	470	1.39	3.23	7.0	24.3	120	17.1
X954806		1.21	0.08	0.1	0.008	0.19	2.0	2.5	0.13	293	5.36	0.18	0.2	12.8	140	1.7
X954901		18.40	0.07	1.2	0.053	2.01	7.8	6.8	2.32	957	0.45	1.59	2.0	14.9	1330	4.1
X954902		14.95	0.07	1.1	0.055	1.95	8.2	23.2	4.27	1800	0.47	1.45	1.3	97.1	2030	5.6
X954903		24.1	0.08	2.3	0.030	3.37	18.4	20.7	0.24	283	2.32	2.47	5.7	2.8	950	8.1
X954904		13.35	0.11	1.8	0.050	2.29	17.1	10.4	1.13	449	47.9	1.05	4.3	51.4	1130	22.0
X954951		0.22	0.15	<0.1	<0.005	0.02	<0.5	11.9	13.65	371	0.18	0.02	0.1	0.7	20	1.5
X954952		13.20	0.14	1.7	0.059	1.13	29.2	39.9	0.94	484	11.60	2.48	16.5	86.9	570	277



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		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
X954051		33.1	<0.002	0.01	0.23	5.4	1	1.2	52.9	0.11	0.08	1.11	0.112	0.18	1.9	109
X954052		30.0	<0.002	0.60	5.30	9.5	1	0.4	478	0.11	<0.05	0.32	0.101	0.31	0.1	93
X954053		4.0	<0.002	<0.01	0.18	1.4	<1	0.2	20.6	0.07	<0.05	0.55	0.041	0.08	0.2	10
X954054		10.1	<0.002	0.03	8.94	5.0	1	0.2	241	<0.05	<0.05	0.44	0.068	0.48	0.6	45
X954055		4.8	<0.002	0.11	1.80	13.3	1	0.2	2080	<0.05	<0.05	0.13	0.017	0.24	0.4	25
X954851		3.0	<0.002	<0.01	0.45	0.9	<1	0.2	10.2	0.05	<0.05	0.32	0.018	0.04	0.1	9
X954852		11.1	<0.002	<0.01	0.24	2.6	<1	0.3	13.3	0.09	0.09	1.12	0.044	0.11	0.4	12
X954853		35.3	<0.002	0.32	6.23	8.5	<1	0.6	254	0.10	<0.05	0.84	0.217	0.36	0.3	81
X954854		46.6	<0.002	0.38	9.39	10.3	1	0.6	1695	0.10	0.05	0.76	0.241	0.47	0.3	94
X954855		21.9	<0.002	<0.01	1.21	32.0	2	1.9	75.9	2.19	<0.05	2.76	1.990	0.29	0.6	292
X954856		71.6	<0.002	0.05	0.46	2.6	1	0.7	673	0.49	<0.05	6.01	0.181	0.69	2.3	26
X954857		5.3	<0.002	<0.01	0.49	1.2	<1	0.2	238	<0.05	<0.05	0.61	0.029	0.04	0.2	8
X954858		11.9	<0.002	0.01	2.34	3.4	1	0.4	126.5	0.15	0.16	1.85	0.064	0.14	0.4	13
X954859		7.3	<0.002	<0.01	1.41	1.2	<1	0.2	5.3	0.07	<0.05	0.66	0.028	0.06	0.1	8
X954860		78.9	0.002	<0.01	6.00	16.6	6	1.1	49.8	0.24	0.07	3.93	0.242	1.84	2.2	330
X954861		2.8	<0.002	0.02	22.1	1.6	1	<0.2	305	<0.05	<0.05	0.12	0.008	0.15	0.2	11
X954801		1.5	0.003	>10.0	551	0.5	94	<0.2	8.4	<0.05	29.3	0.06	<0.005	0.02	<0.1	5
X954802		0.8	<0.002	0.03	1.58	1.2	<1	<0.2	7.6	<0.05	0.05	0.05	0.006	0.02	<0.1	5
X954803		2.1	<0.002	0.06	2.01	1.2	1	<0.2	12.2	<0.05	0.09	0.25	0.013	0.02	0.1	9
X954804		0.5	<0.002	0.01	0.86	0.5	<1	<0.2	8.7	<0.05	0.08	0.09	0.013	<0.02	0.1	5
X954805		53.9	<0.002	0.02	14.60	1.2	1	0.8	138.0	0.48	<0.05	2.90	0.057	1.71	3.2	6
X954806		5.4	0.003	0.06	3.61	1.5	2	<0.2	882	<0.05	<0.05	0.28	0.016	0.37	0.6	48
X954901		27.3	<0.002	0.16	0.22	20.6	1	0.8	725	0.12	<0.05	0.92	0.368	0.10	0.7	351
X954902		38.8	<0.002	0.02	0.56	38.6	1	0.6	723	0.08	<0.05	2.16	0.391	0.22	1.1	280
X954903		108.5	<0.002	0.11	1.30	2.3	1	1.9	258	0.34	0.37	6.26	0.099	0.88	4.2	31
X954904		65.4	0.047	1.61	24.1	13.1	11	0.9	779	0.27	0.11	3.26	0.308	3.34	3.2	533
X954951		0.9	<0.002	0.01	0.13	0.1	1	<0.2	129.0	<0.05	<0.05	0.10	<0.005	0.07	0.7	4
X954952		34.1	<0.002	0.05	0.29	8.6	<1	4.4	406	0.36	<0.05	3.58	0.215	0.25	0.7	57



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Project: BGM-Regional Rocks

CERTIFICATE OF ANALYSIS VA19130143

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	S-OG62 S % 0.01	Au-AA24 Au ppm 0.005
X954051		0.4	5.7	49	35.2		<0.005
X954052		3.8	5.5	119	2.4		1.670
X954053		0.3	2.2	12	4.8		<0.005
X954054		2.1	4.3	48	8.5		0.016
X954055		0.2	7.7	53	2.4		0.006
X954851		0.1	1.8	11	6.3		<0.005
X954852		0.1	7.1	12	9.7		<0.005
X954853		13.6	12.6	185	5.4		1.430
X954854		17.0	29.7	115	4.4		2.55
X954855		1.6	38.7	146	28.0		0.059
X954856		0.2	4.8	51	10.6		0.014
X954857		0.2	5.8	8	3.6		<0.005
X954858		0.8	4.0	38	12.3		0.005
X954859		0.3	1.5	13	7.3		<0.005
X954860		0.9	20.7	403	62.0		0.008
X954861		0.2	3.8	78	2.8		0.006
X954801		0.1	0.8	<2	0.6	16.75	1.260
X954802		0.1	1.4	3	0.6		0.010
X954803		0.7	1.8	8	5.1		0.005
X954804		0.9	0.3	4	1.6		0.008
X954805		1.7	5.1	202	47.6		<0.005
X954806		0.4	6.9	214	5.7		<0.005
X954901		0.7	13.2	69	39.5		0.205
X954902		0.2	14.3	84	34.3		<0.005
X954903		7.7	5.1	28	63.4		0.022
X954904		2.6	17.5	693	72.1		0.075
X954951		0.1	0.4	12	1.0		<0.005
X954952		0.3	9.6	223	62.4		0.046



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

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

Au-AA24	CRU-31	CRU-QC	LOG-21
LOG-23	ME-MS61	ME-OG62	PUL-31
PUL-32m	PUL-QC	S-OG62	SPL-21
SPLIT-Z	WEI-21		