

Ministry of Energy and Mines  
BC Geological Survey

Assessment Report  
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Prospecting

TOTAL COST: 9967.91

AUTHOR(S): Dr. Mathias Wesphal P.Geo

SIGNATURE(S): 

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

YEAR OF WORK: 2013

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): SOW(5489060) 2014/FEB/07, SOWU(5503360) 2014/MAY/07

PROPERTY NAME: Troitsa

CLAIM NAME(S) (on which the work was done): 610463,610466

COMMODITIES SOUGHT: Copper, Molybdenum, Silver, Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 093E 005, 093E 003, 093E 009, 0923 099

MINING DIVISION: Ominica

NTS/BCGS: 93E 11W

LATITUDE: 53 ° 31 ' 25 " LONGITUDE: 127 ° 21 ' 03 " (at centre of work)

OWNER(S):

1) Ken Galambos

2) Ralph Keefe

Shawn Turford

MAILING ADDRESS:

1535 Westall Ave

Victoria, BC V8T 2G6

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

1) Granite Creek Gold Ltd

2) \_\_\_\_\_

MAILING ADDRESS:

814 - 675 West Hastings Street

Vancouver BC V6B 1N2

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

Stikina Terrane, Lower Hazelton Group- Telkwa Fromation calc-alkaline volcanic and middle Jurassic Smithers Formation

sediments overlain by Lower Cretaceous Skeena Group sediments and Kasalka subaerial andesitic volcanics. Intruded by

Cretaceous aged quartz diorite and granodiorites grouped as Bulkley or Kasalka.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 2026,31748,32205,33115,14953,12278,3253

1091,

Next Page

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping _____			
Photo interpretation _____			
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
<b>Airborne</b> _____			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil _____			
Silt _____			
Rock 13 samples analyzed for 34 element ICP + Au		610463,610466	100%
Other _____			
<b>DRILLING (total metres; number of holes, size)</b>			
Core _____			
Non-core _____			
<b>RELATED TECHNICAL</b>			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
<b>PROSPECTING (scale, area) _____</b>			
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
		<b>TOTAL COST:</b>	<b>9967.91</b>

# **PROSPECTING REPORT**

**on**

## **TROITSA MINERAL PROPERTY**

### **CLAIM TENURES:**

**530747,562810,591929,610463,610466,626523,637152,818105,82  
1422,822483,829162,830877-830892, 884549,1015633, 1022496,  
654889**

### **OMINICA MINING DIVISION**

**MAP SHEET: NTS 93E 11W**

**LATITUDE N 53° 31' 25", LONGITUDE W 127° 21' 03"**

**BC Geological Survey  
Assessment Report  
34785**

**RECORDED OWNER:**

**OPERATOR:**

**AUTHORS:**

**DATE:**

**Ken Galambos, Shawn Turford, Ralph Keefe**

**GRANITE CREEK GOLD LTD.**

**DR. MATHIAS W. WESTPHAL, P.GEO.**

**April 5, 2014**

# 1 TABLE OF CONTENTS

<b>1</b>	<b>TABLE OF CONTENTS</b> .....	<b>1</b>
<b>2</b>	<b>SUMMARY</b> .....	<b>3</b>
	TERMS OF REFERENCE .....	3
	EXPLORATION PROGRAM 2013 .....	4
	SITE VISIT .....	4
<b>3</b>	<b>RELIANCE ON OTHER EXPERTS</b> .....	<b>4</b>
<b>4</b>	<b>PROPERTY DESCRIPTION AND LOCATION</b> .....	<b>4</b>
	LOCATION .....	4
	CLAIMS	5
<b>5</b>	<b>ACCESSIBILITY, CLIMATE, PHYSIOGRAPHY, LOCAL RESOURCES AND INFRASTRUCTURE</b> .....	<b>6</b>
	ACCESSIBILITY .....	6
	PHYSIOGRAPHY, VEGETATION AND CLIMATE .....	9
	LOCAL RESOURCES AND INFRASTRUCTURE .....	9
<b>6</b>	<b>HISTORY</b> .....	<b>9</b>
<b>7</b>	<b>GEOLOGICAL SETTING</b> .....	<b>11</b>
	REGIONAL GEOLOGY .....	11
	PROPERTY GEOLOGY .....	11
	7.1.1 Structure .....	11
<b>8</b>	<b>DEPOSIT TYPES</b> .....	<b>13</b>
<b>9</b>	<b>MINERALIZATION</b> .....	<b>13</b>
<b>10</b>	<b>EXPLORATION</b> .....	<b>13</b>
	PROPERTY EXAMINATION - AEPTEMBER 2013 .....	15
<b>11</b>	<b>INTERPRETATION AND CONCLUSIONS</b> .....	<b>15</b>
<b>12</b>	<b>RECOMMENDATIONS</b> .....	<b>15</b>
<b>13</b>	<b>STATEMENT OF COSTS</b> .....	<b>16</b>
<b>14</b>	<b>REFERENCCESS</b> .....	<b>16</b>
<b>15</b>	<b>CERTIFICATE OF AUTHOR</b> .....	<b>19</b>
	APPENDIX I .....	20
	APPENDIX II .....	21

## LIST OF TABLES

Table 1.	Troitsa property claim status .....	5
Table 2.	Assay results .....	13
Table 3.	Sample description and co-ordinates .....	14
Table 2.	2010 Granite Creek expenditures .....	16

## LIST OF FIGURES

Figure 1.	Troitsa property location map .....	7
Figure 2.	Troitsa property claim map .....	8
Figure 3.	Regional geology map .....	12

**APPENDIX I** Sample Location Maps

**APPENDIX II** Analytical Certificate

## **2 Summary**

The Troitsa property (the “Property”) is comprised of 21 mineral tenures totaling a 6186.89 hectare located approximately 140 kilometers south of the community of Smithers, British Columbia and approximately 18 kilometers SW of the active Huckleberry Mine . The registered owners of the Property are Ken Galambos, Shawn Turford, Ralph Keefe. (the “Property Owners”). The Property is located in prospective ground, based prospective structures, metal content in limited drilling and alteration. Exploration programs in the past have identified numerous exploration targets, including copper and molybdenum soil anomalies and geophysical targets.

The Property has four known showings: Troitsa (Main) [MINFILE 093E 005], Troitsa (Lake) [MINFILE 093E 003], Troitsa (Cirque) [MINFILE 093E 009], and Price [MINFILE 0923 099].

Mineralization on the property fits the classic calc-alkaline deposit model with stockworks of quartz veinlets, quartz veins, closely spaced fractures and breccias containing pyrite and chalcopyrite with lesser molybdenite in granodiorite to quartz monzonite.

The Property was staked by the Property Owners in 2006, with various claims added between 2006 and 2013. In November of 2010 the Property Owners entered into an option agreement with Callinan Mines Limited. During the period from 2010 to 2012 Callinan mines completed prospecting programs, geochemical surveys, Induced Polarity and Magnetic geophysical, an airborne ZEM survey and 3776.9 meters of diamond drilling in 12 holes. Results of the diamond drilling were positive, intercepting significant widths of anomalous mineralization in 8 of the 12 holes. Best results include 0.317% Cu over 86.71m within a wider zone of 0.204% Cu over 164.44m in TR11-07 and 0.858% Cu and 4.77 g/t Ag over 23.18m within a wider interval 0.224% Cu over 169.87m. Despite encouraging drilling results the property was returned to the property owners in April of 2013.

In July 2013 Granite Creek Gold Ltd. (“Granite Creek”) acquired the right to earn a 100% interest in the Property.

A two day helicopter supported prospecting and rock sampling property examination was carried out in September 23 and 25, 2013 in order to review the structural fabric of the property and confirm the location of geological features noted in historical geological mapping. The property visit also facilitated the review of previous operators sampling including prospecting programs peripheral to the main zone.

### ***Terms of Reference***

This report was commissioned by Granite Creek Gold Ltd. (“Granite Creek”) to summarize the geology and mineralization on the Troitsa property copper-molybdenum porphyry property in the Omineca mining Division, British Columbia. In preparing this

report, the author has reviewed the geological, geophysical, geochemical and drilling reports, maps and miscellaneous papers listed in the References section at the conclusion of this report. Information used in the preparation of this report includes a number of publically available reports filed for assessment credit with the B.C. Ministry of Forests, Mines and Land. The purpose of this technical review is to determine if the Troitsa property is a Property of Merit and to make recommendations for an ongoing exploration program.

### ***Exploration Program 2013***

Mathias Westphal, P.Geo., accompanied by Timothy Johnson president and CEO of Granite Creek Gold completed geological fieldwork on September 23 and 25, 2013, which was supported by contract helicopter from Canadian Helicopters Ltd., Smithers B.C. This work included rock sampling, review of previous operators sampling sites, review of drilling sites and structural measurements. Due to bad weather conditions, the planned follow up field days on September 26 to 28, 2013, had to be canceled.

### ***Site Visit***

The author, Mathias Westphal, P.Geo., visited the property for one and a half days on September 23 and 25, 2013, accompanied by Timothy Johnson CEO of Granite Creek Gold. The fieldwork was supported by contract helicopter from Canadian Helicopters Ltd., Smithers, B.C.

The purpose of this work was to examine structural elements on the property in the area of previous drilling, to confirm the location of geological features noted in historical geological maps, and establish areas for an expanded geochemical program. Planned follow up soil sampling had to be canceled due to bad weather conditions.

## **3 Reliance on Other Experts**

The author has compiled this report with all due care and reviewed all available reports, listed at the end of this report under References. It is believed that the information contained within this report is accurate and reliable. Experienced exploration personnel have undertaken all previous work programs on the property, and qualified professionals wrote the referenced reports cited.

## **4 Property Description and Location**

### ***Location***

The Troitsa property is located 140 kilometers south of Smithers, British Columbia and approximately 18 kilometers southwest of Imperial Metal's Huckleberry Mine Site. The general location of the project is shown in Figure 1.

The Troitsa property lies within the traditional territory of the Wet’suwet’en First Nation. Exploration permits must be obtained from the British Columbia Ministry of Forests, Mines and Land prior to carrying out further mechanized exploration on the property.

The property is in the Ominica Mining Division, within map sheet 093E11W. The coordinates of the center of the claim block are approximately 0609179mE and 5931752mN (UTM NAD83) or 53° 31’ 25” N latitude and 127° 21’ 03” W longitude.

***Claims***

The Troitsa property is comprised of twenty-one Mineral Claims all acquired through the British Columbia government’s online staking system, which total 6186.89 hectares. The claims are owned by Ken Galambos, Shawn Turford and Ralph Keefe. The claim statistics are listed in Table 1 and located in Figure 2.

**Table 1. Troitsa property claims.**

Tenure Number	Claim Name	Issue Date	Good to Date	Registered Owner
530747	Troitsa	March 28, 2006	July 5, 2023	Turford, Shawn A
562810	Troitsa1	July 10, 2007	July 5, 2023	Turford, Shawn A
591929	TSA105	Sept. 25, 2008	July 5, 2023	Turford, Shawn A
610463		July 23, 2009	July 5, 2023	Galambos, Kenneth D
610466	Troitsa	July 23, 2009	July 5, 2023	Keeth, Ralph R
626523		Sept. 1, 2009	July 5, 2023	Galambos, Kenneth D
637152	Troitsa	Sept 19, 2009	July 5, 2023	Galambos, Kenneth D
818105	TSA 202	July 14, 2010	July 5, 2023	Turford, Shawn A
821422	TSA West	July 19, 2010	July 5, 2023	Turford, Shawn A
822483	TSA 10901	July 21, 2010	July 5, 2023	Turford, Shawn A
829162	TSA North	July 27, 2010	July 5, 2023	Turford, Shawn A
830887		July 30, 2010	July 5, 2023	Galambos, Kenneth D
830888		July 30, 2010	July 5, 2023	Galambos, Kenneth D
830889		July 30, 2010	July 5, 2023	Galambos, Kenneth D
830890		July 30, 2010	July 5, 2023	Galambos, Kenneth D
830891		July 30, 2010	July 5, 2023	Galambos, Kenneth D
830892		July 30, 2010	July 5, 2023	Galambos, Kenneth D
884549	Troitsa Final	Aug. 08, 2011	July 5, 2023	Galambos, Kenneth D
1015633	Troitsa	Jan. 02, 2013	Jan. 25, 2023	Galambos, Kenneth D
1022496 *		Sept 21, 2013	Sept 21, 2017	Galambos, Kenneth D
654889 *		Oct 19, 2009	Mar 30, 2017	Galambos, Kenneth D

\*The anniversary date of claims 1022496 and 654889 is subject to the approval of this report.



## **5 Accessibility, Climate, Physiography, Local Resources and Infrastructure**

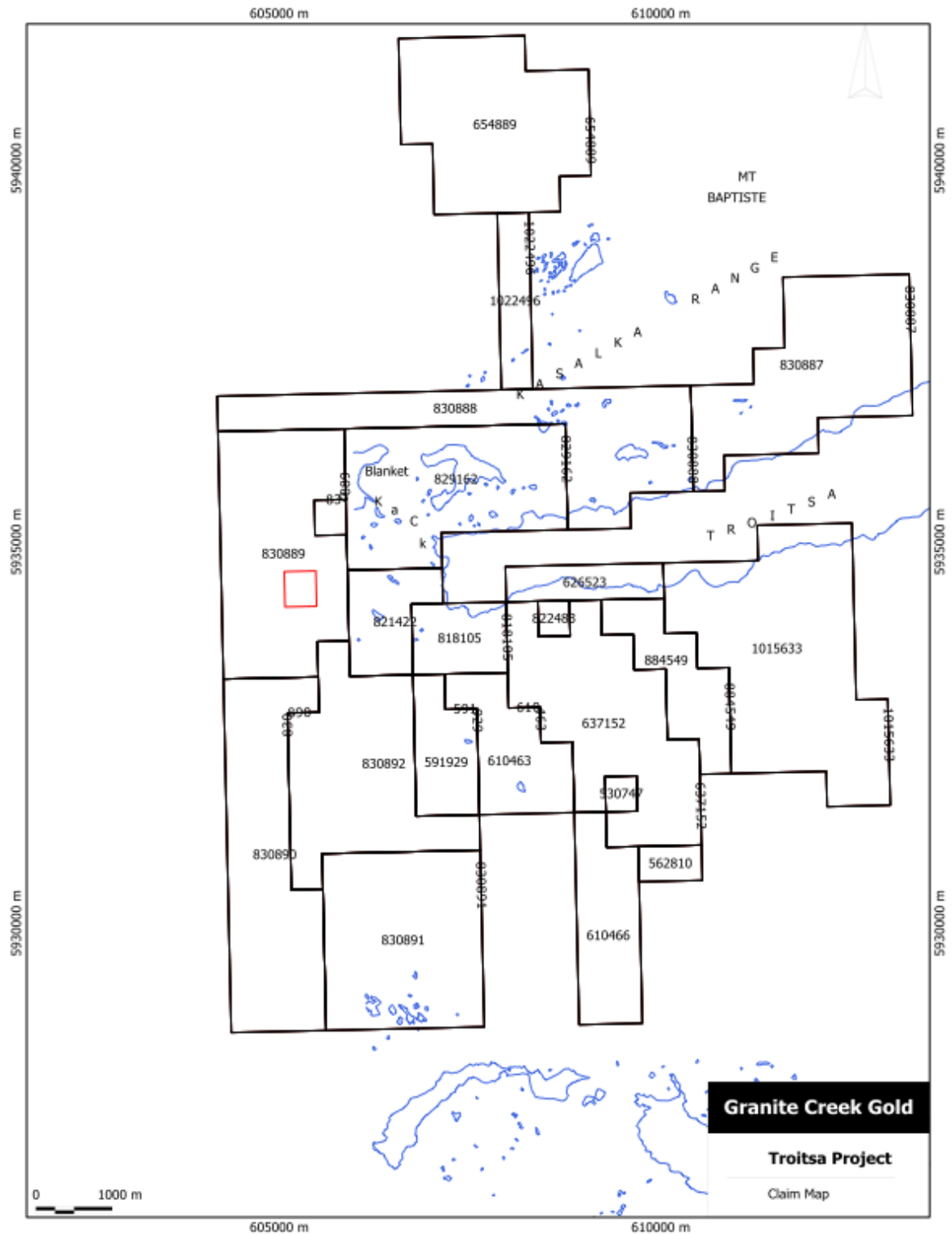
### *Accessibility*

Helicopter service is the only access for now and is available from Smithers (approx. 60 min), The Property can also be accessed by helicopter from various staging areas within a 20 min flight of the center of the property. The staging areas are serviced by various logging roads providing good year around access to within 20km of the property.

Figure 1. Troitsa property location map.



Figure 2. Troitsa property claim map.



### ***Physiography, Vegetation and Climate***

The property is situated in alpine regions on the eastern flank of the coast mountain ranges and exhibits typical U-shaped valleys and ragged ridgelines. The elevation ranges from 900 meters at Troitsa Lake to 2050 meters at the highest peaks on the south side of the property.

Most of the property lies above timberline with vegetation consisting of scrub alder, willow and dwarf balsam near creeks. At lower elevations mature stands of balsam and spruce dominate. (Galambos, 2012).

The climate of the area is between costal and interior plateau. Work season is mid June to late September. Seasonal temperatures vary from -15C in winter to 20C during summer months. The region receives 40-50cm of precipitation annually with snow varying from less than 2 meters on valley floors to 10's of meters accumulations above alpine.

### ***Local Resources and Infrastructure***

Grid power is available at the Huckleberry mine site approximately 18km to the northeast. Various staging areas suitable for the mobilization of drilling and related equipment by helicopter can be found within 20km of the center of the project. These staging areas can be accessed by a network of all season logging roads from Houston and Smithers BC 120km and 185km respectively.

Smithers, Houston and area have along history of mining and are host to a workforce familiar with the industry. Smither is also regional airport with daily service to Vancouver as well as rail service to the Port of Prince Rupert. A large number of exploration related service companies, including diamond drilling, logistics and geological consulting also make their home in the region.

## **6 History**

The Property has four known showings: Troitsa (Main) [MINFILE 093E 005], Troitsa (Lake) [MINFILE 093E 003], Troitsa (Cirque) [MINFILE 093E 009], and Price [MINFILE 0923 099].

Mineralization was discovered in the Troitsa Lake area in 1966 by G. Bleiler and F. Giauque. The two prospectors staked the OVP 1-76 group of claims in August and September and optioned the property to Silver Standard Mines. The company carried out geological mapping, trenching and sampling programs in 1966 and 1967 and drilled three holes totaling 370.33m. Silver Standard staked an additional 60 claims (MK Group) in 1967 over new mineralization discovered in an upland valley south of Troitsa Lake. The company diamond drilled an additional two holes totaling 361.80m of "A" sized core in 1968 prior to returning the property to the vendors.

In 1969, Aston Resources Ltd. entered into an agreement to further explore the

area. Aston conducted geological mapping, geochemical and ground geophysical surveys and a helicopter based airborne magnetic and electromagnetic surveys.

In 1971, Cerro Mining Company of Canada Limited optioned the property from Aston Resources Limited. Work completed that year included various geochemical surveys including silt, soil, talus and rock chip sampling. The soil geochemical surveys returned values as high as 5507ppm Cu, 165ppm Mo and outlined a number of targets.

In 1972, Quintana Minerals Corporation completed a single 457m diamond drill hole.

Detailed geologic mapping was carried out by N. G. Cawthorn in 1973 and published as part of his M. Sc. Thesis at the University of British Columbia, titled Geology and Petrology of the Troitsa Lake Property, Whitesail Lake Map Area, B.C.

The claim-group lapsed and was re-staked in 1983 in part by Payday Resources Inc. as the Nuswat, Core Lode 1 and Core Lode 2 mineral claims. Payday completed extensive geochemical soil surveys over the central and northwestern areas of the property and outlined numerous multi-element anomalies for both base and precious metals. Subsequent geochemical and geophysical magnetic surveys and geological mapping focused on the western and northern areas of the property where precious metals appeared to be concentrated.

Two limited prospecting programs were completed by Shawn Turford under the British Columbia Prospectors Assistance Program in 1999 and 2000. Mr. Turford re-examined the Troitsa Lake showings and prospected the areas covered by the Payday Resources geochemical surveys. A new showing of rusty mineralized BFP intrusive rocks containing >10,000ppm Cu and 1.3g/t Au was discovered.

The present claim package was staked by Ken Galambos, Shawn Turford, Ralph Keefe between 2006 and 2013. In 2010 the property was optioned to Callinan mines, Callinan's exploration program consisted of extensive prospecting, soil and rock geochemical sampling and limited structural mapping. In 2010 the Troitsa Main showing was located and re-sampled with a 121m long channel sample. The mineralization averaged 0.282% Cu over the full 121m and included two zones of higher-grade mineralization. Between 2011 and 2012 Callinan completed 3776.9 meters of diamond drilling in 11 holes with 8 of the 11 holes intersecting significant copper mineralization. During this time 22.65 km of 3Dip and magnetic survey and approximately 250km of airborne Ztem geophysical survey was also completed (Galambos 2012)

## 7 Geological Setting

### *Regional Geology*

Regionally, the Troitsa Lake area lies within the Stikinia Terrane, approximately 15 km east of the main granitic and metamorphic rocks of the Coast Plutonic Complex. Lower Jurassic Hazelton Group-Telkwa Formation calc-alkaline volcanic rocks and middle Jurassic Smithers Formation undivided sedimentary rocks are the oldest rock units in the area. Overlying the Hazelton Group in the claim region and to the north are sediments of the Lower Cretaceous Skeena Group and a thick sequence of subaerial andesitic volcanic rocks of the Kasalka Group. Intimately related to Cretaceous volcanism are various quartz diorite and granodiorite intrusions grouped as Bulkley or Kasalka type.

Block faulting, ring and radial faults, and subsequent intrusion by dykes and/or hydrothermal fluids may have affected a large part of the area between Tahtsa and Troitsa lakes where a large caldera, 22 km in diameter, is believed to have formed during Cretaceous volcanism. The Troitsa property straddles the southern rim of this obscure collapse feature. (Galambos, 2012).

### *Property Geology*

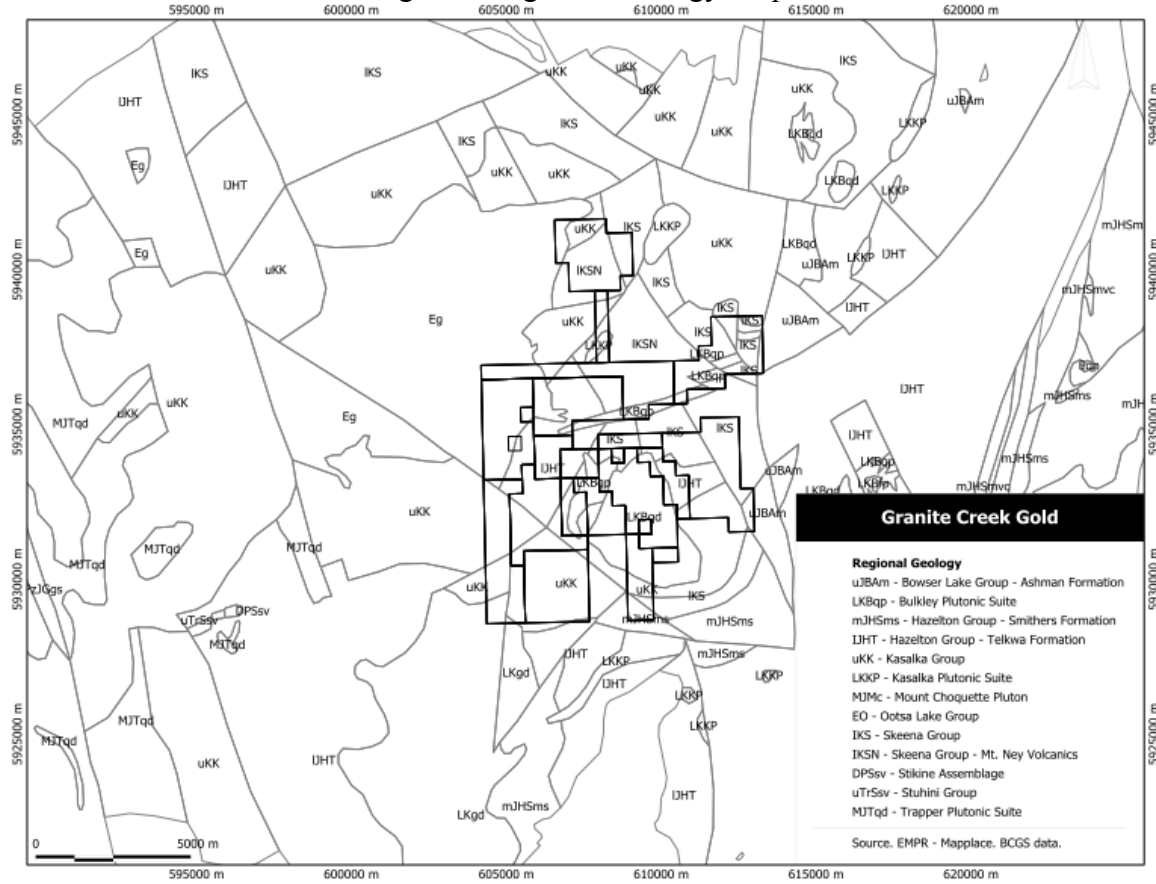
The Troitsa property is underlain, in large part, by a compositionally zoned stock of granodiorite to quartz monzonite which intrudes Hazelton, Skeena and Kasalka Group rocks. The Troitsa stock measures approximately 4km long and 2.5km wide in plan with its long axis trending roughly northwest-southeast.

A thick lensoid-shaped plug of rhyolite intrudes along the stock's western margin and strikes to the north-northeast. The prominent, northeast trending, Blanket Lakes fault separates the rhyolite plug from a thick sequence of Kasalka volcanics to the west. The rhyolite is exposed as multiple sills in the north facing walls of steep cirques to the south of the broad upland plateau. The property is cut by numerous northwest and northeast trending faults. The northeast fabric appears to be late as it offsets much of the jointing, but is itself cut by some of the northwest faulting. Feldspar porphyry, quartz-feldspar porphyry, basalt, andesite and lamprophyre dykes cut both the main intrusion and rhyolite plug and often core the northwest and northeast trending shear zones. (Galambos, 2012)

#### **7.1.1 Structure**

The predominate fracture set noted on the property strikes between 150 and 160 deg with dips between 80 and 60 degrees to the west. An apparent later NE faulting offsets much of the jointing. The prominent northeast trending Blanket Lakes fault separates a Rhyolite unit lying in the north central part of the property with a thick sequence of Kasalka volcanics to the west. (Galambos 2012)

Figure 3 Regional Geology Map



## 8 Deposit Types

A number of deposit models are relevant for the general area with the porphyry copper/molybdenum model being the main focus of the current program. Other intrusion related models that may be significant are the low sulphidation epithermal model, the subvolcanic copper/gold/silver model, and the polymetallic silver/lead/zinc model..

## 9 Mineralization

Mineralization discovered to date is typical of that found in the classic calcalkaline deposit model, with stockworks of quartz veinlets, quartz veins, closely spaced fractures and breccias containing pyrite and chalcopyrite with lesser molybdenite in granodiorite to quartz monzonite. Some QFP dykes that intrude along the northwest regional fabric commonly exhibit significant concentrations of disseminated chalcopyrite often replacing primary biotite. The chalcopyrite mineralization is often seen with rims of chalcocite. (Galmabos 2012)

## 10 Exploration

During the 2 day prospecting program 13 samples were taken. The samples were delivered to the Acme Analytical prep lab in Smithers. Acme's Geo2 analytical package was chosen which included Aqua Regia digestion and analysis for 34 elements by ICP-MS, plus fire assay for Gold, significant results are tabulated below.

**Table 2. 2013 Prospecting significant results.**

Sample	Type	Cu %/ppm	Mo %/ppm	Ag ppm	Au ppb
194216	Grab	691ppm	26ppm	6.7	126
194218	Grab HG	1.804%	NS	16.7	119
194219	Grab	NS	0.191%	2.1	NS
194220	Grab	572ppm	103ppm	NS	NS
194221	20 cm Chip	100ppm	0.284%	2.4	60
194227	Float	1163ppm	NS	NS	NS
194228	Float	499ppm	NS	NS	NS



Structural measurements taken during the site visit confirm the predominate fracture set, that appears to host much of the mineralization discovered to date on the property strikes between 150 and 160 deg and dips steeply to the west. Secondary fracturing striking 235 deg also dipping west was also noted. Mineralized dykes intersected in drill holes completed by previous operators were located at surface and related to historical mapping.

**Table 3. 2013 Prospecting Sample Descriptions**

UTM coordinates WGS 84 Zone 9

Sample	UTM East	UTM North	Description
194216	609144	5930929	5-10 cm wide quartz and sulfide filled fracture striking 160 deg and dipping 80 deg W
194217	609144	5930929	30 cm wide sample of altered material. Malachite staining and cpy evident on fracture surfaces. Chlorite and sericite +/- alteration.
194218	609144	5930929	High grade material from 1 cm veinlets within 194217
194219	609136	5930921	Material from fracture striking 150 deg dip 57 deg N secondary fractures at same site strike 60 deg and dip 87 deg S. Narrow feldspar porph dykes strike 150 deg and dip 68 deg W at this location. Proximal float exhibits 2cm wide Py + Cpy veins and 1cm Mo rose on fracture face.
194220	609140	5930898	Mo and Cpy on dry fractures. 158 deg strike, 53W dip.
194221	609145	5930888	20cm chip across well mineralized cpy, mo, and py vein.
194222	609145	5930888	Grab sample from hanging wall of dyke
194223	609145	5930888	Dyke striking 155 deg 30 deg W dip mineralized with disseminated pyrite
194224	609145	5930888	Hanging wall of dyke
194225	609145	5930888	Quartz/Sulfide vein x cutting dyke.
194226	607948	5932366	Proximal float near contact between Diorite and

			fine grained mafic dyke
194227	607948	5932366	Fine grained dyke material with Py, Cpy and abundant magnetite.
194228	607948	5932366	Same location as 194227 taken from material with no visible sulfides.

### ***Property Examination - September 2013***

A two-day property examination, carried out on behalf of Granite Creek under the direction of the author, included prospecting, structural measurements and a review of historical geological mapping.

## **11 Interpretation and Conclusions**

Drilling and surface sampling by previous operators between 2010 and 2012 identified significant porphyry mineralization. Compilation of historical soil surveys have indicated that copper in soil anomalies may extend for up to 4000m along strike with widths of several hundred meters. During the field visit conducted by the author mineralized dykes were located and related to historical geological mapping. Therefore, it is the author's opinion that the Troitsa Property is a Property of Merit that warrants further exploration and expenditures.

## **12 Recommendations**

A two-stage, contingent exploration program is recommended to properly define the presently known mineralization and to further define new targets on the Property. The purpose of the Phase I exploration program is to confirm and extend the known mineralization of the Main Zone while further defining soil anomalies along strike. An outline of the proposed work follows:

- Expand and infill the soil grid to the Northwest and Southeast covering historical sampling and mineralized areas identified by prospecting.
- Expand the IP Survey to cover the extent of soil anomaly identified in compilation work.
- Complete a 2,400 meter diamond drilling program of six to eight holes to attempt to further define and extend the main zone and test targets along strike.

Subject to successful results from Phase I, a second drill program should be initiated to further delineate the total extent of the subsurface mineral potential of the Main Zone as well as follow up on any new discoveries. A total of 6,000 meters of drilling is suggested for the Phase II program.

### 13 Statement of Costs

The total cost of the 2013 field program (13 samples) with related expenditures is **\$9,967.91**. See Table 3 for the breakdown of costs.

**Table 4. 2013 Granite Creek Expenditures**

Date 2013	Description	Days	Rate CDN \$	Total CDN \$
Sept 24	Canadian Helicopters 206b3	2.1hrs	998.00	2095.80
	Base fuel	335.5l	1.40	469.70
Sept 25	Canadian Helicopters 206L1	2.1hrs	1288	2704.80
	Remote fuel	200l	2.15	450.00
Sept 24+25	Geologist – Mathias Westphal	2	630	1260.00
Sept 23	Geologist – Mathias Westphal	½	630	315
Sept 24+ 25	Tim Johnson – Assistant	2	500	1000
Sept 22 & 26	Travel Vancouver to Smithers			630.11
	Assays – Acme 13 Samples			542.80
	Report Writing			500
			<b>Total</b>	<b>9967.91</b>

### 14 References

Alldrick, D.J. (1996): Intrusion-related Au Pyrrhotite Veins, in Selected British Columbia Mineral Deposit Profiles, Volume 2 - Metallic Deposits,

Lefebure, D.V. and Høy, T., Editors, British Columbia Ministry of Employment and Investment, Open File 1996-13, pages 57-58.

Cawthorn, N.G. (1973): Geology and Petrology of the Troitsa Lake Property, Whitesail Lake Map Area, B.C. M.Sc. Thesis, Univ. of British Columbia.

Davidson, D.A. P.Eng., and Woolverton, H., P.Eng. (1969): Geological, Geochemical and Geophysical Report on the OVP 1-36 and MK 1-60 Claims. Omineca Mining Division. Aston Resources Limited Assessment Report 2026.

Galambos, K.D. (2010): Prospecting Report on the Troitsa Project, Omineca Mining Division. Shawn Turford, Ralph Keefe and Ken Galambos Assessment report 31748.

Galambos, K.D. (2011): Evaluation Report on the Troitsa Project, Omineca Mining Division. Callinan Mines Limited Assessment report 32205.

Galambos, K.D.(2012): Troitsa Sampling, Geophysical and Drilling Report on the Troitsa Project, Omineca Mining Division. Callinex Mines Inc. Assessment report 33115.

Goldsmith. L.B. and Kallock. P. (1986): Soil Geochemical Survey Nuswat, Core Lode 1 and Core Lode 2 Mineral Claims, Omineca Mining Division Troitsa Lake Area, BC. Payday Resources Assessment report 14953

Goldsmith L.B. P.Eng., Kallock P.(1986): Geological, Soil and Rock Geochemical, and Magnetic Surveys Nuswat, Core Lode 1 and Core Lode 2 Mineral Claims Omineca Mining Division Troitsa Lake Area, BC. Payday Resources Assessment report 15314

Hodder. R.W. and MacIntyre. D.G. (1979): Place and Time of Porphyry Type Copper-Molybdenum Mineralization in Upper Cretaceous Caldera Development. Tahtsa Lake, B.C. In: Papers on Mineral Deposits of Western North America. Nevada Bureau of Mines and Geology. Report 37, pp. 175-184.

Kallock. P. and Goldsmith. L.B. (1984): Soil Geochemical Survey and Geological Data Evaluation. Nuswat, Core Lode 1 and Core Lode 2 Mineral Claims Omineca Mining Division Troitsa Lake Area, B.C. Payday Resources Assessment report 12278

Lefebure, D.V. and Church, B.N. (1996): Polymetallic Veins Ag-Pb-Zn+/-Au, in Selected British Columbia Mineral Deposit Profiles, Volume 2 - Metallic Deposits,

Lefebure, D.V. and Høy, T., Editors, British Columbia Ministry of Energy of Employment and Investment, Open File 1996-13, pages 67-70.

MacIntyre. D.G. (1976): Evolution of Upper Cretaceous Volcanic and Plutonic Centres and Associated Porphyry Copper Occurrences. Tahtsa Lake Area. B.C. Ph.D. Thesis, Univ. of British Columbia

MacIntyre, D.G. (1985): Geology and Mineral Deposits of the Tahtsa Lake District, West Central British Columbia. B.C. Ministry of Energy, Mines and Petroleum Resources. Bulletin 75.

Mustard. D.K.. P.Eng. (1971): Geochemical Survey, OVP & MK Mineral Claims,

Troitsa Lake Property, Omineca Mining Division. Aston Resources Limited and Cerro Mining Company of Canada Ltd. Assessment Report 3253.

Neugebauer. H. (1967): Geological Report on the Claims OVP #49-60, SW End of Troitsa Lake, B.C. Silver Standard Mines Ltd. Assessment Report 1091.

van der Heyden. P. (1982): Geology of the West-Central Whitesail Lake Area, B.C. M.Sc. Thesis, Univ. of British Columbia.

Panteleyev, A. (1996): Epithermal Au-Ag: Low Sulphidation, in Selected British Columbia Mineral Deposit Profiles, Volume 2 - Metallic Deposits, Lefebure, D.V. and Høy, T., Editors, British Columbia Ministry of Employment and Investment, Open File 1996-13, pages 41-44

Panteleyev, A. (1995): Porphyry Cu-Au: Alkalic, in Selected British Columbia Mineral Deposit Profiles, Volume 1 - Metallics and Coal, Lefebure, D.V. and Ray, G.E., Editors, British Columbia Ministry of Energy of Employment and Investment, Open File 1995-20, pages 83-86.

Panteleyev, A. (1995): Porphyry Cu<sup>±</sup>-Mo<sup>±</sup>-Au, in Selected British Columbia Mineral Deposit Profiles, Volume 1 - Metallics and Coal, Lefebure, D.V. and Ray, G.E., Editors, British Columbia Ministry of Energy of Employment and Investment, Open File 1995-20, pages 87-92

Schroeter, T., Pardy, J and Cathro, M. (2004): Significant British Columbia Porphyry Cu-Au Resources. Geofile 2004-11, BC Ministry of Energy and Mines. <http://www.empr.gov.bc.ca/Mining/Geoscience/PublicationsCatalogue/GeoFiles/Documents/2004/Geofile2004-11.pdf>

Turford, S. (1999): PAP 99-23 British Columbia Prospectors Assistance Program Prospecting Report Form – TSA

Turford, S. (2000): PAP 00-8 British Columbia Prospectors Assistance Program Prospecting Report Form – Reach; TSA Target

## 15 Certificate of Author

White North West Consulting  
Dr. Mathias Westphal  
3712 1<sup>st</sup> Avenue, Smithers, B.C., Canada  
Po Box 2575 V0J 2N0  
phone: (250) 469 – 9024  
Cell : (250) 877-9322  
e-mail: mathiasw@xplornet.com

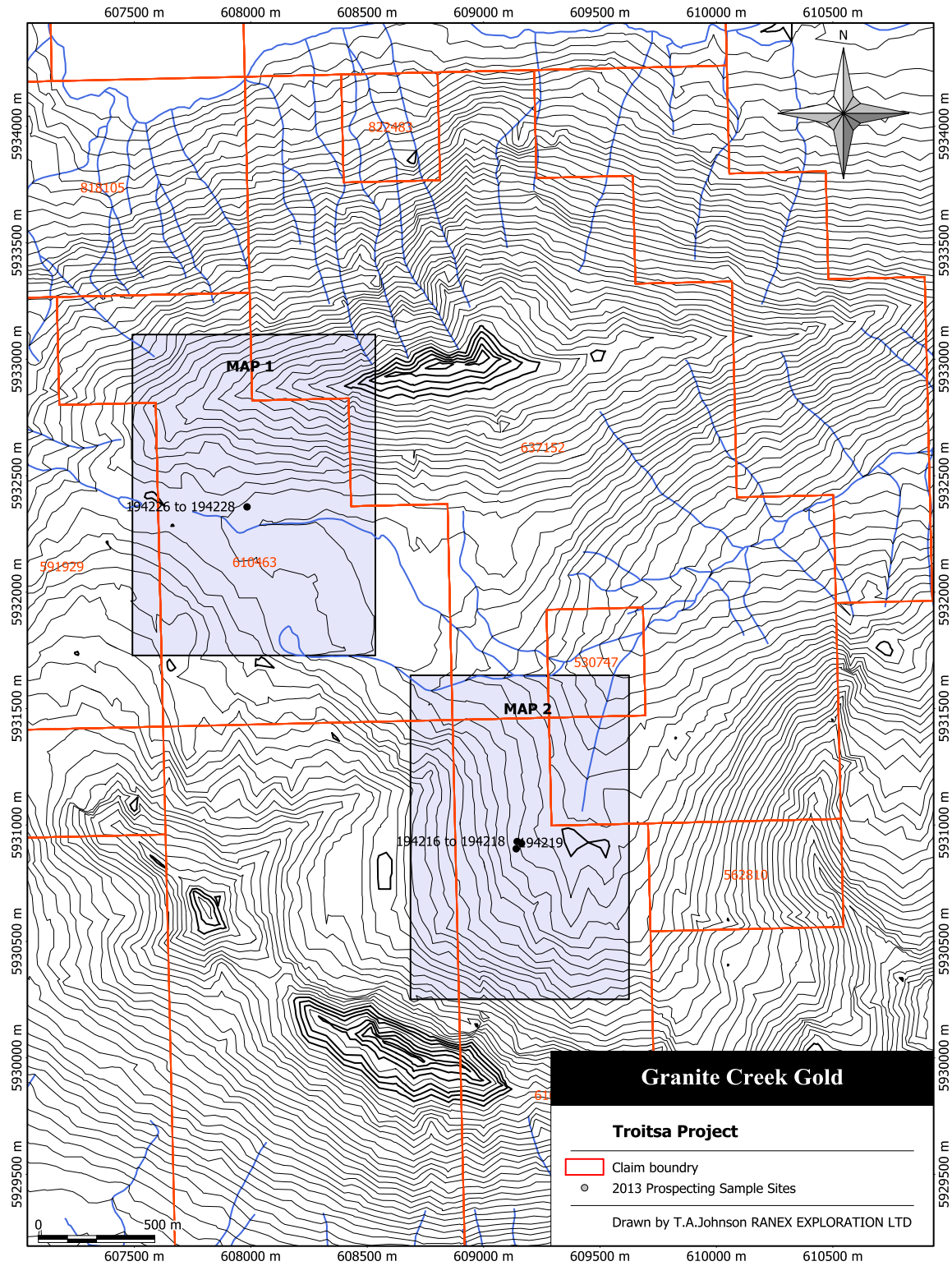
---

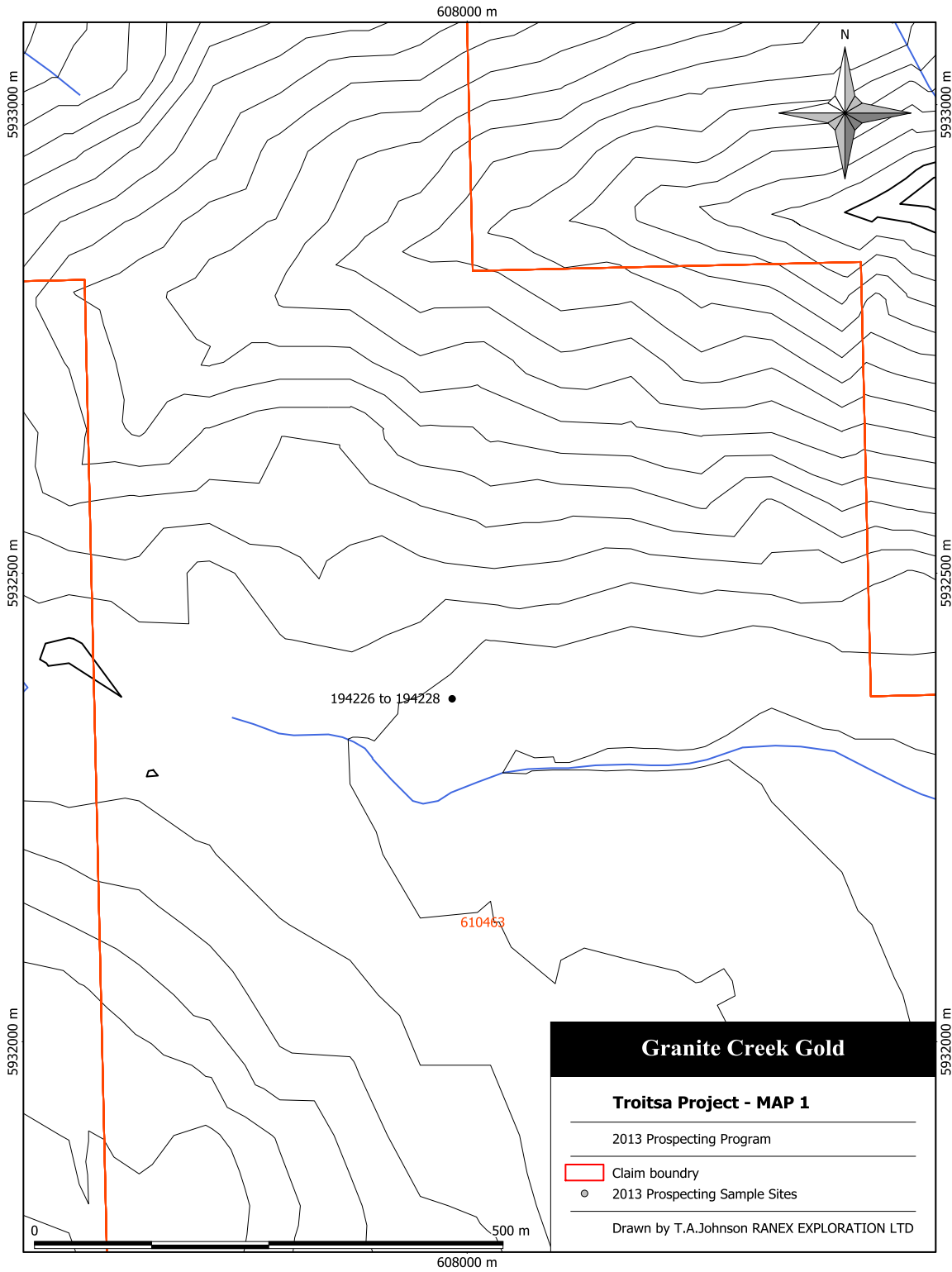
I, Dr. Mathias W. Westphal, P.Geo., do hereby certify that:

1. I am principal of:  
White North West Consulting  
3712 1<sup>st</sup> Avenue  
Po Box 2575  
Smithers, B.C., Canada  
V0J 2N0
  
2. I graduated with a Masters of Science degree in Mineralogy from Albert-Ludwigs-University at Freiburg, Germany in 1994. In addition, I have obtained a Masters of Arts degree in Geography from Albert-Ludwigs-University at Freiburg, Germany in 1992.  
  
Since 1998 I hold a Ph.D. in Mineralogy from Albert-Ludwigs-University at Freiburg, Germany.
  
3. I am a member of the:
  - APEGBC – Association of Professional Engineers and Geoscientists
  - DMG – German Mineralogical Society (Deutsche Mineralogische Gesellschaft).
  
4. I have worked as a Mineralogist/Geologist for a total of 16 years since my Masters of Science graduation from university. This includes 2 years of NSERC funded UBC project 'Isk Wollastonite Skarn' (post-doc) with REE investigations at Iskut and Stikine confluence, B.C., 4 ½ years at TeckCominco including work at Red Dog mine and especially the NE Aqualak extension, Antamina, Pend d'Oreille, and Pogo Mine. 2007-2008 working in the Yukon Territory on a Gold vein and Gold skarn system at Sixty Mile River for Goliath Resources Inc. Working for Gold Reach Resources Inc. (2008) at the Seal property (polymetallic Cu-Mo-Au porphyry, B.C.), and Bard Ventures Ltd. (2008-2009) on a Cu-Mo porphyry property (Lone Pine, B.C.) with Cu-Au-Ag breccia zone. Also for Bard Ventures Ltd working on the Grouse Mountain Cu-Zn-Au-Ag property. 2010 working for International Millennium Mining Corp. on Haida Gwaii, B.C. on an old Au porphyry and Au vein property (Cumshewa). Also working for HighPointe Exploration Inc. on the old Tasco porphyry property, south of Taseko, B.C. Recently, I worked on the Porphyry Creek property of Duncastle Gold Corp. in the Hazelton Mountains, B.C. on a Cu-Mo-Au porphyry with qtz-pyrite-Gold veins, and on the Copley Lake Au porphyry property from Kootenay Gold Inc. All above mentioned projects are fluid flow based deposits, which show transitions between vein/fracture controlled and pervasive alteration processes controlled (porphyry or skarn) ore forming processes.

Working includes supervision of drilling, core logging, prospecting, mapping, supervision of soil sampling programs, interpretation of geophysical data and maps, line out new exploration programs, report writing. In addition, consulting of various other projects not mentioned above including coal, Ni-laterites, aggregate, metallurgical work, hard metal ceramics, SEM and microprobe work.

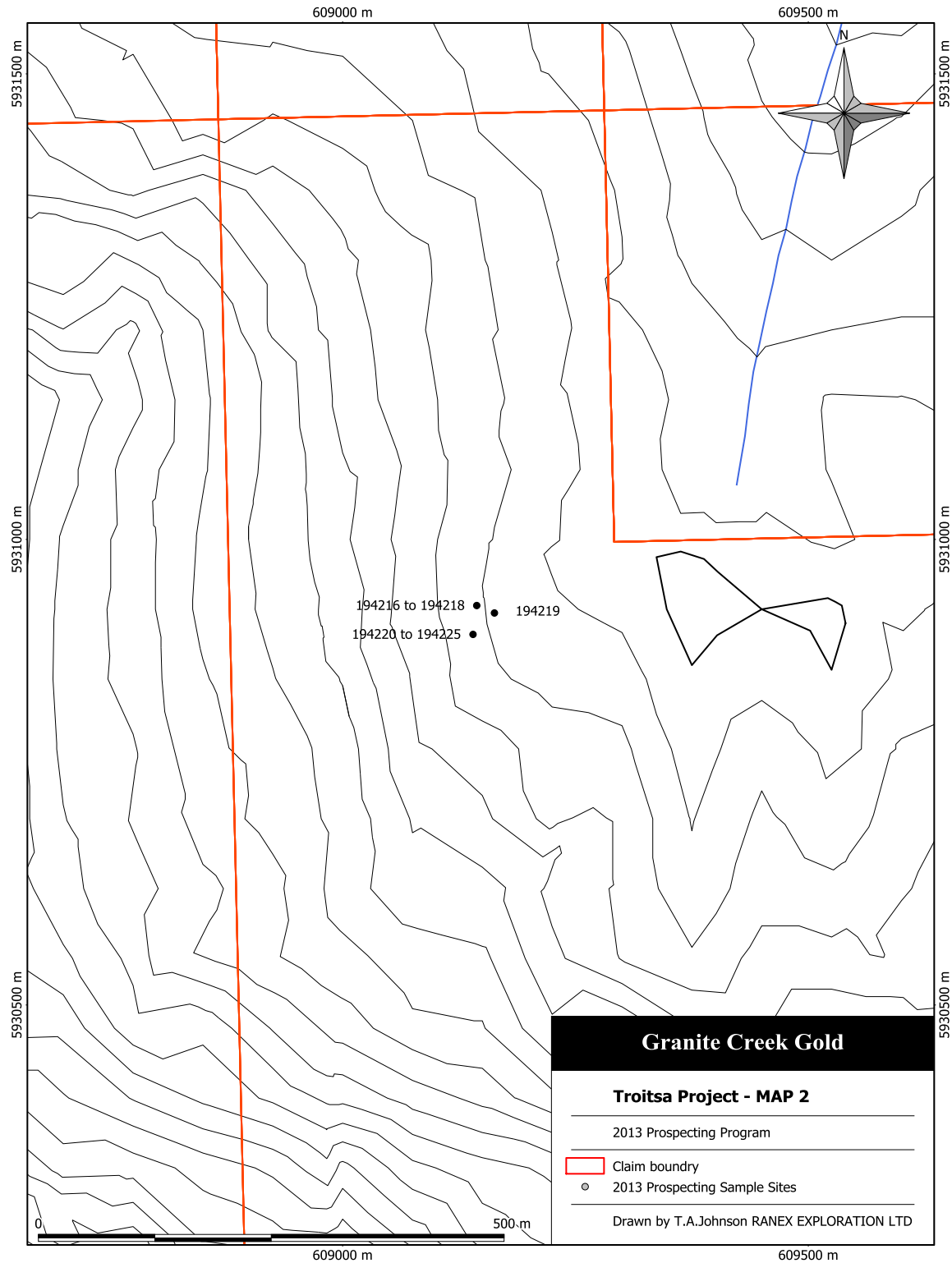
# APPENDIX I





194226 Au 25, Mo 1.4, Cu 199.8 ppb, ppm, ppm  
 194227 Au 26, Mo 3.0, Cu 1163.3  
 194228 Au 18, Mo 1.5, Cu 499.7





194216	126,	26.2,	691.8 (Au ppb, Mo ppm, Cu ppm)
194217	5,	2.1,	136.9
194218	119,	9.0,	>10000
194219	20,	>2000,	39.1
194220	5,	103.8,	572.1
194221	60,	>2000,	100.2
Pa 194222	5,	<0.1,	7.5
194223	5,	12.5,	60.1
194224	8,	11.6,	17.1
194225	8,	22.8,	75.8

***APPENDIX II***



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

Client: **Granite Creek Gold**  
512-675 West Hastings St.  
Vancouver BC V6C 1V4 CANADA

Submitted By: Tim Johnson  
Receiving Lab: Canada-Smithers  
Received: September 27, 2013  
Report Date: November 14, 2013  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

SMI13000324.2

### CLIENT JOB INFORMATION

Project: TROITSA  
Shipment ID:  
P.O. Number  
Number of Samples: 13

### SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

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

Invoice To: Granite Creek Gold  
512-675 West Hastings St.  
Vancouver BC V6C 1V4  
CANADA

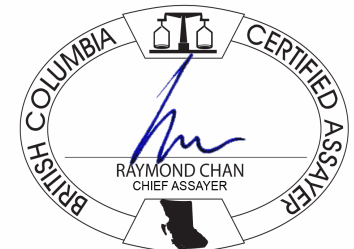
CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	13	Crush, split and pulverize 250 g rock to 200 mesh			SMI
3B	13	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	13	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
7AR	1	1:1:1 Aqua Regia digestion ICP-ES analysis	0.4	Completed	VAN
7KP1	2	Phosphoric acid leach, ICP-ES analysis	0.5	Completed	VAN

### ADDITIONAL COMMENTS

Version 2: 7AR-Cu and 7KP-Mo included.



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

# CERTIFICATE OF ANALYSIS

SMI13000324.2

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
194216	Rock	0.90	126	26.2	691.8	173.3	105	6.7	13.1	39.6	1716	6.87	84.4	126.2	4.6	140	2.0	18.8	231.8	22	6.00
194217	Rock	0.99	5	2.1	136.9	3.8	47	0.2	14.7	14.8	482	3.13	2.5	8.0	9.1	20	<0.1	<0.1	2.5	54	0.65
194218	Rock	0.47	119	9.0	>10000	101.7	244	16.7	27.1	100.1	1667	15.84	23.7	93.4	3.7	102	4.7	0.6	106.6	15	5.43
194219	Rock	0.66	20	>2000	39.1	133.7	83	2.1	14.2	124.7	287	9.67	1.4	13.9	7.2	17	1.0	0.3	5.1	21	0.25
194220	Rock	0.59	5	103.8	572.1	4.0	22	0.7	10.6	7.0	272	2.34	0.7	7.3	11.1	18	<0.1	0.1	1.1	65	0.48
194221	Rock	0.52	60	>2000	100.2	109.7	22	2.4	8.9	79.3	638	7.45	35.6	45.6	3.4	76	1.8	2.2	6.3	8	2.62
194222	Rock	0.52	5	<0.1	7.5	3.2	29	<0.1	10.2	8.6	564	2.40	9.2	6.1	11.2	80	<0.1	<0.1	0.1	39	2.28
194223	Rock	0.41	5	12.5	60.1	16.1	49	0.5	8.5	45.4	344	2.56	2.1	9.0	3.2	31	<0.1	0.1	2.0	28	1.12
194224	Rock	0.54	8	11.6	17.1	5.4	31	0.2	10.5	8.0	793	2.96	139.1	5.1	8.3	68	<0.1	1.2	0.2	29	2.83
194225	Rock	0.18	8	22.8	75.8	20.6	96	0.3	7.7	6.3	1012	4.29	6.8	4.8	0.8	294	0.3	1.1	0.4	33	11.54
194226	Rock	0.49	25	1.4	119.8	1.8	27	<0.1	13.9	18.5	225	10.74	3.1	7.6	0.1	5	<0.1	0.3	0.2	117	0.09
194227	Rock	0.78	26	3.0	1163.3	8.6	80	0.4	18.8	51.6	360	5.26	4.1	15.7	5.7	20	0.4	0.4	0.4	123	0.44
194228	Rock	1.99	18	1.5	499.7	7.9	94	0.3	14.7	54.7	599	11.14	3.2	14.5	3.5	23	0.3	0.2	0.3	168	0.57



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Granite Creek Gold**  
 512-675 West Hastings St.  
 Vancouver BC V6C 1V4 CANADA

Project: TROITSA  
 Report Date: November 14, 2013

Page: 2 of 2

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

SMI13000324.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7AR	7KP
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Cu	Mo
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001	0.001
194216	Rock	0.056	15	4	1.27	40	0.001	<20	0.36	0.012	0.16	0.4	0.17	0.2	5.09	3.7	0.7	2	3.4	
194217	Rock	0.100	17	22	0.89	47	0.006	<20	1.19	0.040	0.18	<0.1	0.01	<0.1	0.44	3.1	<0.5	7	1.0	
194218	Rock	0.041	12	4	0.34	15	0.001	<20	0.58	0.013	0.14	1.1	0.03	<0.1	>10	2.0	8.2	3	6.8	1.804
194219	Rock	0.090	8	9	0.38	11	0.004	<20	0.52	0.030	0.14	0.4	0.02	<0.1	8.92	1.6	6.3	3	0.6	0.191
194220	Rock	0.092	12	23	0.60	143	0.137	<20	0.70	0.072	0.26	0.2	0.01	<0.1	0.08	1.9	<0.5	5	<0.2	
194221	Rock	0.028	5	3	0.87	17	<0.001	<20	0.22	0.003	0.11	0.4	0.04	<0.1	7.11	0.7	4.0	1	1.7	0.284
194222	Rock	0.089	19	18	0.85	28	0.001	<20	0.92	0.019	0.12	<0.1	<0.01	<0.1	0.36	2.8	0.8	5	<0.2	
194223	Rock	0.070	13	10	0.39	71	0.001	<20	0.45	0.024	0.18	<0.1	0.02	0.1	1.06	2.2	<0.5	3	0.7	
194224	Rock	0.084	19	9	0.72	38	<0.001	<20	0.36	0.021	0.17	0.1	0.27	0.3	0.18	2.6	<0.5	2	<0.2	
194225	Rock	0.021	10	2	1.33	389	<0.001	<20	0.25	0.003	0.08	<0.1	0.04	<0.1	0.20	1.1	0.7	2	<0.2	
194226	Rock	0.002	<1	12	0.19	35	0.057	<20	0.32	0.019	0.13	<0.1	<0.01	<0.1	0.32	2.7	1.1	8	<0.2	
194227	Rock	0.107	6	36	1.34	114	0.239	<20	1.52	0.076	0.57	0.4	0.01	0.4	2.43	10.2	0.7	9	0.2	
194228	Rock	0.097	6	39	1.28	238	0.247	<20	1.88	0.087	0.80	0.4	<0.01	0.6	1.02	9.9	1.4	12	<0.2	

## QUALITY CONTROL REPORT

SMI13000324.2

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
REP 194221	QC																				
194224	Rock	0.54	8	11.6	17.1	5.4	31	0.2	10.5	8.0	793	2.96	139.1	5.1	8.3	68	<0.1	1.2	0.2	29	2.83
REP 194224	QC			11.0	17.0	5.1	35	0.2	10.3	8.1	786	2.89	138.8	4.9	8.6	66	0.1	1.2	0.2	28	2.78
194228	Rock	1.99	18	1.5	499.7	7.9	94	0.3	14.7	54.7	599	11.14	3.2	14.5	3.5	23	0.3	0.2	0.3	168	0.57
REP 194228	QC		22																		
Core Reject Duplicates																					
194221	Rock	0.52	60	>2000	100.2	109.7	22	2.4	8.9	79.3	638	7.45	35.6	45.6	3.4	76	1.8	2.2	6.3	8	2.62
DUP 194221	QC		57	>2000	100.7	123.9	23	2.9	10.6	99.5	629	9.47	37.1	62.4	3.4	74	1.1	1.8	7.2	9	2.57
Reference Materials																					
STD AMIS0140	Standard																				
STD DS10	Standard			13.7	158.0	155.4	381	1.8	75.5	12.4	900	2.84	49.4	378.5	7.7	74	3.3	7.1	13.3	46	1.10
STD GC-7	Standard																				
STD NBLG	Standard																				
STD OREAS133B	Standard																				
STD OREAS45EA	Standard			1.3	694.7	13.5	29	0.3	391.2	47.9	401	24.29	9.6	57.1	9.8	4	0.1	0.2	0.2	310	0.04
STD OXC109	Standard		202																		
STD OXC109	Standard		210																		
STD OXC109	Standard		198																		
STD OXI96	Standard		1919																		
STD OXI96	Standard		1795																		
STD W107	Standard																				
STD OXC109 Expected			201																		
STD OXI96 Expected			1802																		
STD DS10 Expected			14.69	154.61	150.55	352.9	1.96	74.6	12.9	861	2.7188	43.7	91.9	7.5	67.1	2.48	9.51	11.65	43	1.0355	
STD OREAS45EA Expected			1.39	709	14.3	28.9	0.26	381	52	400	23.51	9.1	53	10.7	3.5	0.02	0.2	0.26	303	0.036	
STD GC-7 Expected																					
STD OREAS133B Expected																					
STD W107 Expected																					

## QUALITY CONTROL REPORT

SMI13000324.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7AR	7KP	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Cu	Mo	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001	0.001	
Pulp Duplicates																					
REP 194221	QC																				0.305
194224	Rock	0.084	19	9	0.72	38	<0.001	<20	0.36	0.021	0.17	0.1	0.27	0.3	0.18	2.6	<0.5	2	<0.2		
REP 194224	QC	0.083	19	9	0.71	39	<0.001	<20	0.36	0.020	0.16	0.1	0.22	0.3	0.18	2.5	1.2	2	<0.2		
194228	Rock	0.097	6	39	1.28	238	0.247	<20	1.88	0.087	0.80	0.4	<0.01	0.6	1.02	9.9	1.4	12	<0.2		
REP 194228	QC																				
Core Reject Duplicates																					
194221	Rock	0.028	5	3	0.87	17	<0.001	<20	0.22	0.003	0.11	0.4	0.04	<0.1	7.11	0.7	4.0	1	1.7	0.284	
DUP 194221	QC	0.026	5	3	0.83	18	<0.001	<20	0.25	0.004	0.12	0.5	0.07	<0.1	9.32	0.7	3.3	2	1.2		
Reference Materials																					
STD AMIS0140	Standard																				0.003
STD DS10	Standard	0.078	18	56	0.80	422	0.080	<20	1.07	0.065	0.35	2.7	0.35	5.2	0.29	3.1	2.9	6	7.3		
STD GC-7	Standard																				0.563
STD NBLG	Standard																				0.003
STD OREAS133B	Standard																				0.032
STD OREAS45EA	Standard	0.031	7	834	0.10	143	0.086	<20	3.13	0.020	0.06	<0.1	0.02	<0.1	<0.05	81.3	1.5	14	<0.2		
STD OXC109	Standard																				
STD OXC109	Standard																				
STD OXC109	Standard																				
STD OXI96	Standard																				
STD OXI96	Standard																				
STD W107	Standard																				0.048
STD OXC109 Expected																					
STD OXI96 Expected																					
STD DS10 Expected		0.073	17.5	54.6	0.7651	349	0.0817		1.0259	0.0638	0.3245	3.34	0.289	4.79	0.2743	2.8	2.3	4.3	4.89		
STD OREAS45EA Expected		0.029	6.57	849	0.095	148	0.0875		3.13	0.02	0.053			0.072	0.036	78	0.6	11.7	0.07		
STD GC-7 Expected																					0.555
STD OREAS133B Expected																					0.032
STD W107 Expected																					0.045



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Granite Creek Gold**  
 512-675 West Hastings St.  
 Vancouver BC V6C 1V4 CANADA

Project: TROITSA  
 Report Date: November 14, 2013

Page: 2 of 2

Part: 1 of 2

# QUALITY CONTROL REPORT

SMI13000324.2

		WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank		<2																		
BLK	Blank		2																		
BLK	Blank		3																		
BLK	Blank		<2																		
BLK	Blank		5																		
BLK	Blank			0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1-SMI	Prep Blank		3	0.1	2.6	3.8	52	<0.1	3.6	4.2	612	2.11	<0.5	2.8	5.1	69	<0.1	<0.1	<0.1	41	0.52
G1-SMI	Prep Blank		2	0.1	3.1	3.4	48	<0.1	2.8	4.0	596	2.05	<0.5	<0.5	4.8	70	<0.1	<0.1	<0.1	39	0.51





www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.  
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
 PHONE (604) 253-3158

Client: **Granite Creek Gold**  
 512-675 West Hastings St.  
 Vancouver BC V6C 1V4 CANADA

Project: TROITSA  
 Report Date: November 14, 2013

Page: 2 of 2

Part: 2 of 2

# QUALITY CONTROL REPORT

SMI13000324.2

		1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7AR	7KP	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Cu	Mo
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001	0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2		
BLK	Blank																			<0.001	
BLK	Blank																				0.002
Prep Wash																					
G1-SMI	Prep Blank	0.077	11	6	0.62	247	0.129	<20	1.05	0.088	0.53	<0.1	0.02	0.3	<0.05	2.4	<0.5	6	<0.2		
G1-SMI	Prep Blank	0.077	11	7	0.60	237	0.129	<20	1.03	0.084	0.51	<0.1	0.02	0.3	<0.05	2.5	<0.5	6	0.3		