ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: 2015 Geochemical Assessment Report on the Galore Creek Property

TOTAL COST:

AUTHOR(S): Sarah L. Henderson
SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): 5582038

YEAR OF WORK: 2015

PROPERTY NAME: Galore Creek

CLAIM NAME(S) (on which work was done): 516459 & 516165

COMMODITIES SOUGHT: Copper, Gold, Silver

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN:

MINING DIVISION: Liard Mining Division
NTS / BCGS: 104G/3 and 104G/4, BCGS 104G.013
LATITUDE: ____57____° ____07____' ____08____"
LONGITUDE: ____131____° ___27____' ____58____" (at centre of work)
UTM Zone: 9 EASTING: 351005 NORTHING: 6334025

OWNER(S): Galore Creek Mining Corporation

MAILING ADDRESS:
Suite 3300, 550 Burrard Street, Vancouver, BC, V6C 0B3

OPERATOR(S) [who paid for the work]: Galore Creek Mining Corporation

MAILING ADDRESS:
Suite 3300, 550 Burrard Street, Vancouver, BC, V6C 0B3

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

Porphyry, Alkalic, Alkali Syenites, Late Triassic, Stuhini Group, Stikine Terrane, Galore Creek Property, Saddle zone, copper-gold-silver mineralization, volcanics, basalt, syenite.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:
2010 Diamond Drilling Assessment Report on the Galore Creek Property (AR 32119)
1990 Report on Soil, Rock Geochemical Sampling, VLF-EM, Magnetometer and Diamond Drill Surveys on (AR 20558A)

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			
Rock	9 ICP-MS & Lithogeochemical	516459 & 516165	$5357.34
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			

Other	Report Preparation		$2072
		TOTAL COST	$7429.32

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2015 GEOCHEMICAL ASSESSMENT REPORT ON THE GALORE CREEK PROPERTY

Event Number: 5582038
Claims Worked On: 516459 and 516165

Located in the Galore Creek Area
Liard Mining Division
British Columbia, Canada

NTS Map Sheet 104G/3 and 104G/4
BCGS Map Sheet 104G.013
57° 07' 08" North Latitude
131° 27' 58" West Longitude

Owned & Operated by
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February, 2016

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1.0 INTRODUCTION

The Galore Creek Property (Figure 1) is located within the historic Stikine Gold Belt of north-western British Columbia, approximately 75 kilometres northwest of Barrick Gold's decommissioned Eskay Creek mine. The property consists of 295 contiguous mineral claims, totaling 137,776.94 hectares registered in the name of Galore Creek Mining Corporation.

Galore Creek is characterized as an alkaline porphyry-style copper-gold-silver deposit. It consists of a number of mineralized zones including the Central Zone, comprised of Central–North (includes the Legacy Zone), Central-South and Bountiful, the Southwest Zone, the Junction and North Junction Zones, the Middle Creek Zone, and the West Fork Zone. The Galore Creek property is host to 6.8B pounds of Proven and Probable reserves grading 0.6% copper, 5.45 Moz. at 0.32 g/t gold and 102.0 Moz. at 6.0 g/t silver. Inclusive of Proven and Probable reserves Galore Creek is host to 8.9B pounds of Measured and Indicated resources grading 0.50% copper, 8.0 Moz. at 0.3 g/t gold and 136.0 Moz. at 5.2 g/t silver, as well as 346.6M tonnes of Inferred resources grading 0.42% copper, 0.24 g/t gold and 4.28 g/t silver. Mineral reserves and resources were estimated using an NSR cut-off grade of $10.08/t milled, and Mineral Reserves are reported using commodity prices of US$4.44/lb copper, US$1,613/oz gold, and US$40.34/oz silver (effective July 27, 2011) (AMEC, 2011).

In July 2003, SpectrumGold Inc. (now NovaGold Canada Inc.) entered into an option agreement to acquire a 100% interest in the Galore Creek property from Stikine Copper Limited. NovaGold carried out exploration programs on the property in years 2003 through 2007, and additional claims have been staked for the project. NovaGold Canada Inc. is a subsidiary wholly owned by NovaGold Resources Inc. On May 1, 2007, NovaGold and Teck Cominco Limited (Teck Cominco) announced the formation of a 50-50 partnership to develop the Galore Creek Mine. The Galore Creek Partnership was finalized on August 1, 2007 and the jointly controlled operating company, Galore Creek Mining Corporation (GCMC) was created to direct all aspects of project construction and operation. Galore Creek claims were subsequently transferred to GCMC in October 2007. In November 2007, NovaGold and Barrick Gold Corporation (Barrick) reached an agreement and announced that the Grace Property claims would be sold 100% to the Galore Creek Partnership. On December 3, 2007, all the Grace claims were transferred to GCMC. During March 2008, Galore Creek Mining Corporation acquired additional mineral claims in the Scud River area, Stikine River area and north of West More Creek. These claims are contiguous with the Galore Creek Property.

This report covers work completed on portions of the Galore Creek Property between August 22, 2015 and August 24, 2015. The work at Galore Creek was conducted entirely within the boundaries of mineral claims 516459, and 516165.

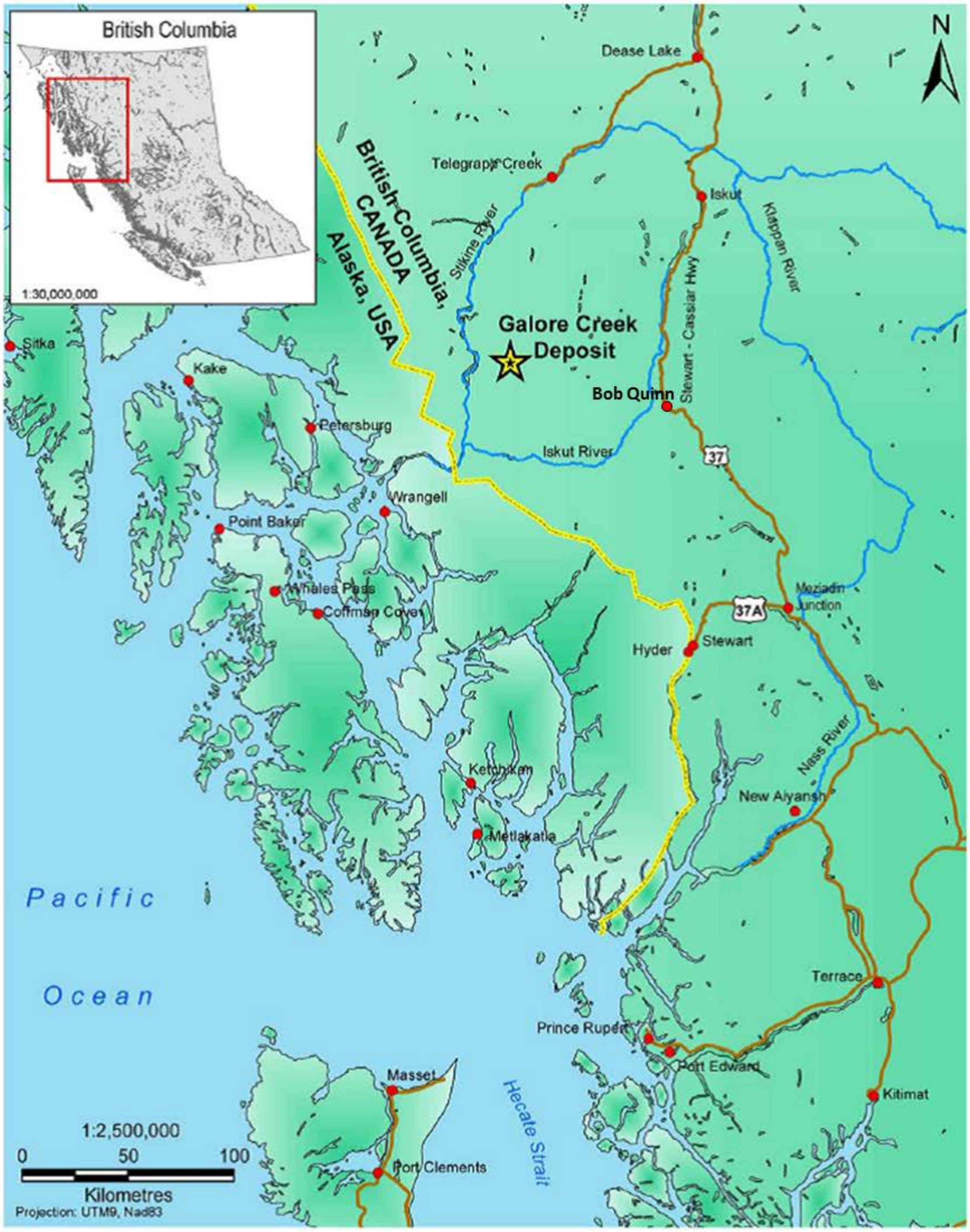


Figure 1: General Location Map

Galore Creek Mining Corporation

2.0 LOCATION, ACCESS & PHYSIOGRAPHY

The Galore Creek property (Figure 1) is located within the Liard Mining Division of northwestern British Columbia, approximately 70 kilometres west of the Bob Quinn airstrip and 90 kilometres northeast of Wrangell, Alaska. The property is situated at the headwaters of Galore Creek, a tributary of the Scud River, which in turn flows into the Stikine River. The property lies at latitude 57°07'08''N and longitude 131°27'58"W, on NTS map sheets 104G/03 and 104G/04.

The town of Smithers, located 370 kilometres to the southeast, is the nearest major supply centre. An existing forest service road, and an access road built by GCMC provides access to the Chi'yone camp (km 36). During the 2015 program personnel, supplies, and equipment were transported via helicopter to, and staged from Teck's Schaft Creek camp, to the northeast of the GCMC claims.

Galore Creek is located in the humid continental climate zone of coastal BC. Summers are generally cool, and winters cold, with substantial snowfall. Property temperatures range from 20°C in the summer to well below -20°C in the winter. Annual precipitation is 76 centimetres with the majority (70%) falling as snow between September and February.

Physiographically, the Stikine-Iskut area is characterized by rugged mountains with elevations ranging between 500 to 2080 metres above sea level, active alpine glaciation and deep U-shaped valleys. Relief on the property varies from moderate to extreme. The tree line, located at an elevation of 1100 metres, divides forests of Balsam Fir, Sitka Spruce, Alder, Willow, Devils Club and Cedar from sparse grasses and brush above.

3.0 EXPLORATION HISTORY

Mineralization was first discovered in the upper Galore Creek valley in 1955 by M. Monson and W. Buchholz while prospecting for a subsidiary of Hudson Bay. Staking and sampling were completed in the area in 1955. Work in 1956 included mapping, trenching and diamond drilling. No further work was undertaken and most of the claims were allowed to expire.

In 1959, reconnaissance stream sediment surveys were carried out by Kennco Explorations (Western) Limited (the Canadian subsidiary of Kennecott Copper, now Rio Tinto Ltd.) in the Stikine River area. Results prompted Kennco to stake mineral claims around the remaining 16 Hudson Bay claims the following year. Four of the original claims were subsequently optioned by Consolidated Mining and Smelting Company of Canada Limited (Cominco) from W. Buchholz. Late in 1962, the three companies agreed to participate jointly in future exploration work. As a result, Stikine Copper Limited was incorporated in 1963, on the basis of the following interests: Kennco Explorations (Western) Limited (59%), Hudson Bay Mining and Smelting Company Limited (34%), and Consolidated Mining and Smelting Company of Canada Limited (5%).

Work conducted since discovery in 1955 outlined a significant copper-gold-silver mineralized zone in the Central Zone and identified several satellite mineralized zones, most importantly the Southwest, North Junction and Junction Zones. This work has included soil sampling, pole-dipole resistivity/induced polarization (IP), magnetics, electromagnetics (EM), radiometrics, very low frequency (VLF) and audio frequency magnetics (AFMAG) airborne geophysical surveys.

From 1960 to 1968, the property was operated by Kennco Exploration. Exploration work during this period included 53,164 metres of diamond drilling in 235 holes and 807 metres of underground development work in two adits. The Central Zone was the focus of most of this work. During the same period, a road was constructed from an airstrip at the confluence of the Stikine and Scud rivers along the Scud River and up Galore Creek to what was then an exploration camp.

No work was done between 1968 and 1972. In 1972, Hudson Bay became operator and in 1972 and 1973 an additional 25,352 metres of diamond drilling was completed in 111 holes. This work concentrated on the mineralization in the Central and North Junction Zones. A further 5,310 metres of diamond drilling was completed in 24 holes in 1976.

In 1989, Mingold Resources Inc. (an affiliated company of Hudson Bay) operated the property in order to investigate its gold potential. In 1990, Mingold completed 1,225 metres of diamond drilling in 18 holes.

Kennecott resumed as operator of the project in 1991 and completed 13,830 metres of diamond drilling in 49 holes. An airborne geophysics survey and over 90 line kilometres of IP survey were also completed. At the end of this initial exploration phase, a total of twelve prospects and deposits had been identified: Central, Junction, North Junction, West Rim, Butte, Southwest, Saddle, West Fork, South Butte, South 110, Middle Creek and North Rim.

3.1 SpectrumGold/NovaGold Exploration

In August 2003, SpectrumGold Inc. (now NovaGold Canada Inc.) entered into an option agreement to acquire a 100% interest in the Galore Creek property from Stikine Copper Limited, a company owned by QIT-FER et Titane Inc. (a wholly-owned subsidiary of Rio Tinto Ltd.) and Hudson Bay. In 2003, SpectrumGold carried out a 10 hole, 2,950 metre diamond drill program on the property. The work program was directed toward confirming grades of copper and gold mineralization defined by previous drilling in the Central and Southwest Zones.

In 2004, NovaGold Canada Inc. (NovaGold) carried out a 79 hole, 25,976 metre diamond drill program to upgrade and expand the existing resource, and to test several peripheral mineral occurrences and nearby properties. Extensive geophysical surveys were conducted to assist the exploratory drilling. The results of the 2004 drilling program provided the basis for geological modeling, resource estimation, preliminary mine planning and economic evaluation at Preliminary Assessment (PA) level.

In 2005, NovaGold completed a 260 hole, 63,190 metre diamond drill program on the Galore Creek property. The aim of the 2005 exploration program was to test for extensions of known mineralization and to explore for new targets within the Galore Creek valley. Additional drilling was utilized for engineering and environmental testing. Mapping focused on defining drill targets, major structures, and alteration assemblages. The geophysical program included a wide-spaced Vector IP reconnaissance program and IP surveys, conducted both south of the Central Zone and along the East Fork of Galore Creek.

In 2006, NovaGold completed 33,575 metres of diamond drilling in 57 holes. The 2006 drilling tested new exploration targets based on geophysical anomalies and new geological interpretations. The goal of the program was to upgrade the resource estimation categories.

In 2007, NovaGold completed 17 holes, totalling 4,547 metres on the Galore Creek property for the Galore Creek Mining Corporation (GCMC). Drilling focussed on the Southwest Zone, Central Replacement Zone, Butte Zone and reconnaissance targets.

3.2 Galore Creek Mining Corporation Exploration

In 2008, Galore Creek Mining Corporation (GCMC) completed nine diamond drill holes totalling 2,049.58 metres. The main objectives of the drill program were to obtain ABA (Acid Base Accounting) data in the Central, Southwest, North Junction and Junction pits, to confirm legacy grades in the Junction pit, and to collect metallurgical data in the Central pit.

In 2010, GCMC conducted a site investigation program of nine exploration diamond drill holes totalling 2,803.33 metres and four geotechnical boreholes totalling 240.70 metres. The main objectives of the exploration drilling were to obtain metallurgical and resource in-fill data in the Central deposit. A geotechnical borehole was drilled in an area under consideration for construction of a water-retaining dam. Three geotechnical boreholes were drilled in the Galore Valley to install standpipes to monitor drawdown associated with pump testing of nearby, previously installed, pump wells.

In 2011, GCMC's site investigation included a drilling program consisting of eighteen (18) exploration drill holes totalling 9,953.22 metres, and sixteen (16) geotechnical boreholes totalling 5,887.30 metres. The main objectives of the exploration drill program were to upgrade and possibly extend mineralization within the Central South and Bountiful zones. The SRK geotechnical site investigation program was undertaken to enable Feasibility-level design of the proposed open pits at Galore Creek.

In 2012, the GCMC site investigation included a diamond drilling program consisting of forty-seven (47) exploration drill holes totalling 23,369.2 metres, nine (9) geotechnical boreholes totalling 3,296.1 metres, six (6) hydrogeological holes totalling 835.0 metres, and sixteen (16) overburden-geotechnical holes totalling 589.5 metres. The main objective of the exploration drill program was to upgrade Inferred resources to Measured and Indicated classification. Exploration drilling successfully encountered copper mineralization.

In 2013, GCMC's site investigation included a diamond drilling program consisting of twenty-two (22) exploration drill holes totalling 11,649 metres. The main objective of the drill program was to upgrade the Legacy Zone to an inferred classification, and explore the continuity and extents of this mineralized zone.

In 2014, GCMC's site investigation included a geochemical sampling program consisting of fourteen (14) rock samples taken from outcrop for lithogeochemical sampling. The main objective of the geochemical sampling program was to characterize the intrusive, volcanic, and sedimentary rock types to the northeast of the Galore Creek valley.

4.0 LAND TENURE AND CLAIM STATUS

In July 2003, SpectrumGold Inc. (now NovaGold Canada Inc.) entered into an option agreement to acquire a 100% interest in the Galore Creek property from Stikine Copper Limited, a company owned by QIT-FER et Titane Inc. and Hudson Bay Mining and Smelting Co. Limited.

The original Galore Creek property consisted of 292 two-post claims, of which 39 were fractions, all held in the name of Stikine Copper Limited. In July 2005, NovaGold converted the 292 claims into six cell claims to hold an area of 5,111 hectares and the claims are listed below in Table 1.

On March 28, 2007, NovaGold exercised the Stikine Copper Limited option and acquired 100% in the property as of June 1, 2007.

Table 1 - Galore Creek Property Claims

Tenure No.	Name	Owner	Area (ha.)
516158	Cell Claim	Galore Creek Mining Corporation (Client No. 211373)	772.237
516165	Cell Claim	Galore Creek Mining Corporation (Client No. 211373)	667.543
516177	Cell Claim	Galore Creek Mining Corporation (Client No. 211373)	175.777
516178	Cell Claim	Galore Creek Mining Corporation (Client No. 211373)	457.053
516179	Cell Claim	Galore Creek Mining Corporation (Client No. 211373).	1,317.270
516459	GALORE 1 CELL CLAIM	Galore Creek Mining Corporation (Client No. 211373)	1,721.252
Totals:	**6 claims**		**5,111.132**

Since the initial option agreement on the Galore Creek claims in 2003, NovaGold has acquired significant ground in the area through staking as well as purchase of mineral claims from other parties. All the claims are listed in Table 3.

On August 1, 2007, the Galore Creek Partnership (Teck Cominco Limited and NovaGold Canada Inc. 50/50) was established to develop the Galore Creek mine; the Partnership created the jointly controlled operating company called the Galore Creek Mining Corporation. In October

2007, all Galore Creek Property claims held by NovaGold Canada Inc. were transferred to the Galore Creek Mining Corporation.

In November 2007, NovaGold and Barrick Gold Corporation (Barrick) reached an agreement and announced the Grace property claims would be sold 100% to the Galore Creek Partnership. On December 3, 2007, all the Grace claims were transferred to Galore Creek Mining Corporation and Table 2 lists the Grace property mineral claims. These claims are now part of the Galore Creek Property and are listed in Table 3.

Table 2 – Grace Property Claims

Tenure No.	Name	Owner	Area (ha.)
404921	Grace 4	Galore Creek Mining Corporation (Client No. 211373)	500
404922	Grace 5	Galore Creek Mining Corporation (Client No. 211373)	500
516161	Cell Claim	Galore Creek Mining Corporation (Client No. 211373)	543.835
516163	Cell Claim	Galore Creek Mining Corporation (Client No. 211373)	1244.967
517480	Cell Claim	Galore Creek Mining Corporation (Client No. 211373)	52.637
Totals:	**5 claims**		**2,841.44**

Between March 2008 and March 2014, Galore Creek Mining Corporation acquired additional mineral claims in the Scud River area, Stikine River area and West More area. These claims are contiguous with the Galore Creek Property claims and are listed in Table 3.

Table 3 - Galore Creek Property Mineral Claims, Liard Mining Division, BC

Owner: Galore Creek Mining Corporation - Client No. 211373

Tenure No.	Claim Name	Owner	Tenure Type	Issue Date	Good To Date	Area (ha)
404921	GRACE 4	211373 (100%)	Mineral Claim	2003/sep/07	2024/dec/01	500
404922	GRACE 5	211373 (100%)	Mineral Claim	2003/sep/07	2024/dec/01	500
408613	VIA 32	211373 (100%)	Mineral Claim	2004/feb/29	2024/dec/01	450
410802	J3	211373 (100%)	Mineral Claim	2004/may/26	2024/dec/01	300
410810	CONTACT 5	211373 (100%)	Mineral Claim	2004/may/26	2024/dec/01	200
410812	CONTACT 7	211373 (100%)	Mineral Claim	2004/may/26	2024/dec/01	450
412228	GL 16	211373 (100%)	Mineral Claim	2004/jul/04	2024/dec/01	500
412241	GL 29	211373 (100%)	Mineral Claim	2004/jul/06	2024/dec/01	500
501126	SPC11	211373 (100%)	Mineral Claim	2005/jan/12	2024/dec/01	368.042
501150	SPC01	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	438.094
501166	SPC02	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	438.096
501212	SPC03	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	437.848
501276	SPC04	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	437.851
501341	SPC06	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	315.279
501401	SPC07	211373 (100%)	Mineral Claim	2005/jan/12	2024/dec/01	210.367
501428	SPC05	211373 (100%)	Mineral Claim	2005/jan/12	2024/dec/01	315.486
501454	SPC09	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	438.097
501496	SPC10	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	437.858
501524	SPC12	211373 (100%)	Mineral Claim	2005/jan/12	2024/dec/01	367.917
501560	SPC13	211373 (100%)	Mineral Claim	2005/jan/12	2024/dec/01	367.793
501583	SPC14	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	420.171
501603	SPC15	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	420.137
501634	SPC16	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	280.043
501660	SPC17	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	420.095
501669	SPC18	211373 (100%)	Mineral Claim	2005/jan/12	2024/dec/01	437.659
501685	SPC20	211373 (100%)	Mineral Claim	2005/jan/12	2024/dec/01	419.889
501726	SPC19	211373 (100%)	Mineral Claim	2005/jan/12	2024/dec/01	437.421
501738	SPC21	211373 (100%)	Mineral Claim	2005/jan/12	2024/dec/01	420.221
501755	SPC22	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	385.557
501775	SPC23	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	437.899
501787	SPC24	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	437.661
501798	SPC25	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	420.67
501815	SPC26	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	420.408
501829	SPC27	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	210.068
501839	SPC29	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	438.001
501857	SPC28	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	420.672
501865	SPC30	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	438.002
501882	SPC31	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	420.291
501891	SPC32	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	420.136
501905	SPC08	211373 (100%)	Mineral Claim	2005/jan/12	2024/dec/01	210.366
501931	PORC01	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	405.39
501965	PORC02	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	440.514
501999	PORC03	211373 (100%)	Mineral Claim	2005/jan/12	2024/jan/12	105.708

Table 3 - Galore Creek Property Mineral Claims - Continued

509232	tunnel	211373 (100%)	Mineral Claim	2005/mar/18	2024/dec/01	333.757
509234	porc 04	211373 (100%)	Mineral Claim	2005/mar/18	2024/mar/18	440.357
509235	porc 05	211373 (100%)	Mineral Claim	2005/mar/18	2024/mar/18	405.158
509250	porc 06	211373 (100%)	Mineral Claim	2005/mar/18	2024/mar/18	123.308
509253	sphaler 01	211373 (100%)	Mineral Claim	2005/mar/18	2024/mar/18	422.571
509259	sphaler 02	211373 (100%)	Mineral Claim	2005/mar/18	2024/mar/18	211.356
509261	ng 01	211373 (100%)	Mineral Claim	2005/mar/18	2024/mar/18	420.826
509262	ng 02	211373 (100%)	Mineral Claim	2005/mar/18	2024/mar/18	105.208
509893	NR 3	211373 (100%)	Mineral Claim	2005/mar/30	2024/dec/01	70.379
511868	SPHCR 01	211373 (100%)	Mineral Claim	2005/apr/30	2024/apr/30	405.262
511869	SPHCR02	211373 (100%)	Mineral Claim	2005/apr/30	2024/apr/30	422.876
511870	SPHCR03	211373 (100%)	Mineral Claim	2005/apr/30	2024/apr/30	422.878
512425		211373 (100%)	Mineral Claim	2005/may/11	2024/dec/01	700.818
512426		211373 (100%)	Mineral Claim	2005/may/11	2024/dec/01	473.235
512478	CONT 1	211373 (100%)	Mineral Claim	2005/may/12	2024/may/26	770.372
516158		211373 (100%)	Mineral Claim	2005/jul/06	2024/dec/01	772.237
516161		211373 (100%)	Mineral Claim	2005/jul/06	2024/dec/01	543.835
516163		211373 (100%)	Mineral Claim	2005/jul/06	2024/dec/01	1244.967
516165		211373 (100%)	Mineral Claim	2005/jul/06	2024/dec/01	667.543
516177		211373 (100%)	Mineral Claim	2005/jul/06	2024/dec/01	175.777
516178		211373 (100%)	Mineral Claim	2005/jul/06	2024/dec/01	457.053
516179		211373 (100%)	Mineral Claim	2005/jul/06	2024/dec/01	1317.27
516235		211373 (100%)	Mineral Claim	2005/jul/07	2024/dec/01	1161.63
516271		211373 (100%)	Mineral Claim	2005/jul/07	2024/dec/01	315.411
516275		211373 (100%)	Mineral Claim	2005/jul/07	2024/dec/01	1407.331
516284		211373 (100%)	Mineral Claim	2005/jul/07	2024/dec/01	947.189
516285		211373 (100%)	Mineral Claim	2005/jul/07	2024/dec/01	614.229
516286		211373 (100%)	Mineral Claim	2005/jul/07	2024/dec/01	912.089
516327		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	999.585
516335		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	1354.185
516340		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	1195.156
516342		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	1107.372
516345		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	949.18
516359		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	789.736
516367		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	1052.596
516377		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	1143.352
516433		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	1318.728
516441		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	1390.457
516443		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	880.157
516445		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	985.011
516448		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	862.311
516452		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	879.374
516458		211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	949.726
516459	GALORE 1 CELL CLAIM	211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	1721.252
516463	NR 4	211373 (100%)	Mineral Claim	2005/jul/08	2024/dec/01	140.84
516474	SPHCR 04	211373 (100%)	Mineral Claim	2005/jul/08	2024/jul/08	422.996

Table 3 - Galore Creek Property Mineral Claims - Continued

516475	SPHCR 05	211373 (100%)	Mineral Claim	2005/jul/08	2024/jul/08	422.996
516496		211373 (100%)	Mineral Claim	2005/jul/09	2024/dec/01	1299.197
516498		211373 (100%)	Mineral Claim	2005/jul/09	2024/dec/01	1105.922
516500		211373 (100%)	Mineral Claim	2005/jul/09	2024/dec/01	1527.806
516503		211373 (100%)	Mineral Claim	2005/jul/09	2024/dec/01	1178.494
516505		211373 (100%)	Mineral Claim	2005/jul/09	2024/dec/01	1126.672
516508		211373 (100%)	Mineral Claim	2005/jul/09	2024/dec/01	1020.993
516509		211373 (100%)	Mineral Claim	2005/jul/09	2024/dec/01	1039.113
516511		211373 (100%)	Mineral Claim	2005/jul/09	2024/dec/01	968.695
516674		211373 (100%)	Mineral Claim	2005/jul/11	2024/dec/01	157.819
516691		211373 (100%)	Mineral Claim	2005/jul/11	2024/dec/01	563.2
517480	GRACE G	211373 (100%)	Mineral Claim	2005/jul/12	2024/jul/12	52.637
522318	CONT 2	211373 (100%)	Mineral Claim	2005/nov/15	2024/dec/01	386.718
522319	CONT 3	211373 (100%)	Mineral Claim	2005/nov/15	2024/dec/01	245.815
556327		211373 (100%)	Mineral Claim	2007/apr/13	2024/dec/01	387.2667
556330		211373 (100%)	Mineral Claim	2007/apr/13	2024/dec/01	281.5297
556331		211373 (100%)	Mineral Claim	2007/apr/13	2024/dec/01	140.7942
556334		211373 (100%)	Mineral Claim	2007/apr/13	2024/dec/01	211.1915
579405	SCU 1	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.2202
579406	SCUD 1	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.9753
579407	SCUD 2	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	122.4604
579408	SCU 2	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.2223
579409	SCUD 3	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	349.8247
579410	SCU 3	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	436.9756
579411	SCUD 4	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.9061
579412	SCUD 5	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	349.7099
579413	SCU 3	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.0939
579414	SCUD 6	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	157.3518
579416	SCU 4	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	401.6306
579417	SCUD 7	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.9056
579418	SCU 5	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	436.9768
579420	SCUD 8	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.6281
579421	SCU 6	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	436.9789
579423	SCUD 9	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.1346
579424	SCU 7	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	436.9808
579426	SCU 8	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	436.9835
579428	SCUD 10	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	244.6974
579429	SCU 9	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.2886
579431	SCUD 11	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	366.949
579432	SCU 10	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.2913
579434	SCU 11	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.3084
579435	SCUD 12	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	209.7657
579436	SCU 12	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	436.7655
579437	SCUD 13	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.4795
579439	SCU 13	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.0121
579441	SCU 14	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.2245

Table 3 - Galore Creek Property Mineral Claims - Continued

579443	SCU 15	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.2253
579454	RDL 1	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	421.8799
579456	RDL 2	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	439.4831
579457	LIN 1	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	421.6811
579458	RDL 3	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	439.34
579459	LIN 2	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	421.7224
579461	RDL 4	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	421.6429
579462	LIN 3	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	298.7028
579463	RDL 5	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	421.6515
579467	RDL 6	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	421.5126
579469	RDL 7	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	421.512
579470	LIN 6	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	333.6831
579472	LIN 7	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	438.8378
579473	RDL 8	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	421.5266
579479	LIN 10	211373 (100%)	Mineral Claim	2008/mar/28	2024/dec/01	421.016
579517	SCUD S1	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.3757
579519	SCUD S2	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	420.114
579521	SCUD S3	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	350.0739
579523	SCUD S4	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	420.2729
579526	SCUD S5	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	420.2704
579528	SCUD S6	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.7174
579530	SCUD S7	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.7149
579532	SCUD S8	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.9041
579535	SCUD S9	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	420.0905
579537	SCUD S10	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	350.2287
579541	SCUD S11	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	385.4026
579542	SCUD S12	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	420.4623
579544	SCUD S13	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	419.9021
579545	SCUD S14	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	420.0891
579547	SCUD S15	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.4696
579548	SCUD S16	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.4701
579549	SCUD S17	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.4678
579550	SCUD S18	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.4649
579551	SCUD S19	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	420.2738
579552	SCUD S20	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.7128
579553	SCUD S21	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.7161
579554	SCUD S22	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.7156
579556	SCUD S22	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.7135
579557	SCUD S23	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	420.4638
579558	SCUD S24	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	420.4437
579559	SCUD S25	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.964
579560	SCUD S26	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.9651
579561	SCUD S27	211373 (100%)	Mineral Claim	2008/mar/28	2024/mar/28	437.9638
585412	RDL 21	211373 (100%)	Mineral Claim	2008/may/29	2024/dec/01	35.1912
662956	RLS 1	211373 (100%)	Mineral Claim	2009/oct/31	2024/dec/01	70.3864
662967	RLS 2	211373 (100%)	Mineral Claim	2009/oct/31	2024/dec/01	70.3828

Table 3 - Galore Creek Property Mineral Claims - Continued

662975	R 1	211373 (100%)	Mineral Claim	2009/oct/31	2024/dec/01	87.9738
662982	RLS 3	211373 (100%)	Mineral Claim	2009/oct/31	2024/dec/01	105.567
975932	HURON 001	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	420.5231
975933	HURON 002	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.8049
975952	HURON 003	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.5775
975953	HURON 004	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	385.5836
975954	HURON 005	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.9536
975955	HURON 006	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.723
975956	HURON 007	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	402.9514
975957	JAY001	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	403.5812
975972	HURON 008	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.7656
975993	JAY002	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	421.4118
975994	HURON 009	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	420.3235
975995	JAY003	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	386.3496
975996	HURON 010	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	420.4012
975997	HURON 011	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.573
975998	JAY004	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	438.8367
975999	HURON 012	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.5844
976000	JAY005	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	421.029
976002	HURON 013	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.3275
976003	JAY006	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	421.1768
976004	HURON 014	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.7743
976005	JAY007	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	438.9156
976006	HURON 015	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.9419
976007	HURON 016	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.7952
976008	JAY008	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	420.9761
976012	JAY009	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	438.6893
976032	HURON 017	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.4339
976052	HURON 018	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.4854
976053	JAY010	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	438.6839
976054	HURON 019	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.0853
976055	HURON 020	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.0788
976056	NAVO 001	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.795
976057	JAY011	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	438.5354
976060	JAY012	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	438.7231
976061	NAVO 002	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.0959
976062	JAY013	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	438.6981
976064	JAY014	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	421.3459
976065	JAY0015	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	438.8828
976066	HURON 024	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.5249
976067	JAY16	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	316.0291
976068	NAVO 003	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.4241
976070	JAY017	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	420.881
976072	JAY018	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	438.3879
976092	HURON 027	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.007
976112	NAVO 005	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.8963

Table 3 - Galore Creek Property Mineral Claims - Continued

976152	HURON 028	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.4041
976153	NAVO 006	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	349.2964
976154	HURON 029	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.7264
976156	HURON 030	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.6758
976157	NAVO 007	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.607
976159	NAVO 008	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.8969
976161	NAVO 009	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.141
976163	NAVO 010	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.8991
976172	NAVO 011	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.1368
976173	HURON 031	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.2289
976174	NAVO 012	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.1327
976175	HURON 032	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.0418
976176	NAVO 013	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.1266
976177	HURON 033	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	349.1978
976179	HURON 034	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	261.8845
976180	NAVO 14	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.8991
976212	NAVO 015	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.0713
976232	HURON 035	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.3596
976234	HURON 036	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.2952
976236	NAVO 016	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	314.2504
976239	NAVO 017	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.6337
976252	NAVO 018	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	349.3086
976412	HURON 050	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	349.9337
976452	HURON 051	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	349.926
976456	HURON 052	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.2404
976459	HURON 053	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	349.9377
976461	HURON 054	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	349.9392
976463	HURON 055	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	419.7249
976467	HURON 056	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.022
976469	HURON 057	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.0772
976472	HURON 058	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.1779
976532	HURON 059	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.1838
976554	HURON 060	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	437.1827
976556	HURON 061	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.942
976558	HURON 062	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.9441
976560	NAVO 029	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	349.3167
976561	HURON 063	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.9394
976572	HURON 064	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.7731
976593	HURON 065	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.526
976612	HURON 066	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.8678
976632	HURON 067	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.9275
976653	HURON 068	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.6217
976656	HURON 069	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	418.8978
976657	HURON 070	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.6796
976672	HURON 071	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.4646
976675	HURON_072	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.6764

Table 3 - Galore Creek Property Mineral Claims - Continued

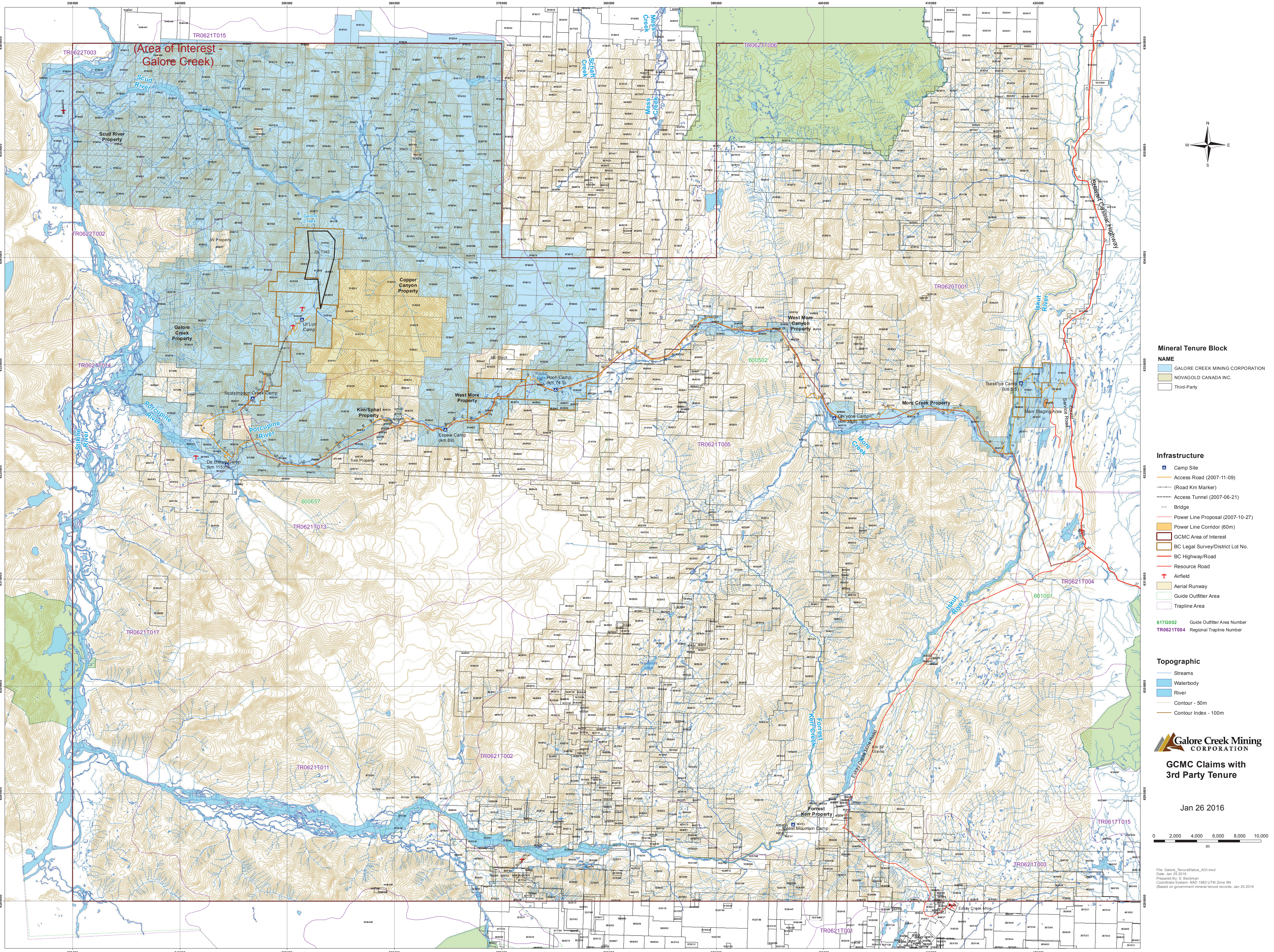
976676	HURON_073	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.6678
976692	HURON_074	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.6657
976713	HURON_075	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.4147
976718	HURON_079	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	436.4558
976732	HURON_080	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	418.7387
976753	HURON_081	211373 (100%)	Mineral Claim	2012/apr/02	2024/apr/02	418.7768
1016352	MAC	211373 (100%)	Mineral Claim	2013/jan/27	2024/jan/27	771.4353
1017781	HURON201301	211373 (100%)	Mineral Claim	2013/mar/14	2024/mar/14	157.3895
1017782	HURON201302	211373 (100%)	Mineral Claim	2013/mar/14	2024/mar/14	104.9935
1017784	HURON201303	211373 (100%)	Mineral Claim	2013/mar/14	2024/mar/14	157.8589
1018229	SPC 33	211373 (100%)	Mineral Claim	2013/apr/03	2024/apr/03	104.9952
1018771	SPC 34	211373 (100%)	Mineral Claim	2013/apr/23	2024/apr/23	175.2671
1019238	SPC 35	211373 (100%)	Mineral Claim	2013/may/04	2024/may/04	87.858
1019756	SPC 36	211373 (100%)	Mineral Claim	2013/may/24	2024/may/24	281.0559
1021815	SPC 37	211373 (100%)	Mineral Claim	2013/aug/22	2019/dec/01	1154.5208
1021830	SPC 38	211373 (100%)	Mineral Claim	2013/aug/23	2019/dec/01	419.9081
1025793	HUR	211373 (100%)	Mineral Claim	2014/feb/08	2020/dec/01	157.4446
1025944	HUR 1	211373 (100%)	Mineral Claim	2014/feb/14	2019/apr/08	157.802
1032810	SPC 39	211373 (100%)	Mineral Claim	2014/dec/18	2018/may/20	701.1912
1034110	SPC 40	211373 (100%)	Mineral Claim	2015/feb/15	2018/may/20	52.612
1040495	SPC 41	211373 (100%)	Mineral Claim	2015/dec/12	2016/dec/12	315.6024
1040566	SPC 42	211373 (100%)	Mineral Claim	2015/dec/16	2016/dec/16	263.0019
295	**Mineral Claims**				**Hectares:**	**137,776.940**

This report covers rock geochemical sampling on the Galore Creek Property between August 22, 2015 to August 24, 2015. The sampling work at Galore Creek includes nine (9) rock samples taken for geochemical analysis within mineral claims 516459 and 516165 (Figure 3) and applied to selected and contiguous claims held by the Galore Creek Mining Corporation. Under Event Number 5582038, assessment work was applied to two mineral claims (SPC 39 and SPC 40) listed in Table 4. The claim expiry dates will be advanced to May 20, 2018, subject to government approval.

Table 4 - Application of 2015 Assessment Work - Galore Creek Property Mineral Claims

Owner: Galore Creek Mining Corporation - Client No. 211373

Tenure No.	Claim Name	Owner	Tenure Type	Issue Date	Good To Date	Area (ha)
1032810	SPC 39	211373 (100%)	Mineral Claim	2014/dec/18	2018/may/20	701.19
1034110	SPC 40	211373 (100%)	Mineral Claim	2015/feb/15	2018/may/20	52.61
					Hectares	**753.80**



(Area of Interest - Galore Creek)
Scud River Property
Galore Creek Property
Copper Canyon Property
JW Property
Scotsimpson Creek Camp
Porcupine River
Kim/Sphal Property
West More Property
Espaw Camp (km 89)
Hoon Camp (km 74.5)
West More Canyon Property
More Creek Property
Tsesklye Camp
Main Staging Area
Forrest Kerr Property
Forrest Kerr Creek
Iskut River
Stikine River
Stewart Cassiar Highway
TR0622T003
TR0621T015
TR0621T006
TR0622T002
TR0620T001
TR0621T014
TR0621T005
TR0621T013
TR0621T004
TR0621T017
TR0621T002
TR0621T011
TR0617T015
TR0621T003
TR0621T001
600502
600657
601001
Mineral Tenure Block
NAME
GALORE CREEK MINING CORPORATION
NOVAGOLD CANADA INC.
Third-Party
Infrastructure
Camp Site
Access Road (2007-11-09)
(Road Km Marker)
Access Tunnel (2007-06-21)
Bridge
Power Line Proposal (2007-10-27)
Power Line Corridor (60m)
GCMC Area of Interest
BC Legal Survey/District Lot No.
BC Highway/Road
Resource Road
Airfield
Aerial Runway
Guide Outfitter Area
Trapline Area
617G002 Guide Outfitter Area Number
TR0621T004 Regional Trapline Number
Topographic
Streams
Waterbody
River
Contour - 50m
Contour Index - 100m
Galore Creek Mining Corporation
GCMC Claims with 3rd Party Tenure
Jan 26 2016
0 2,000 4,000 6,000 8,000 10,000
m

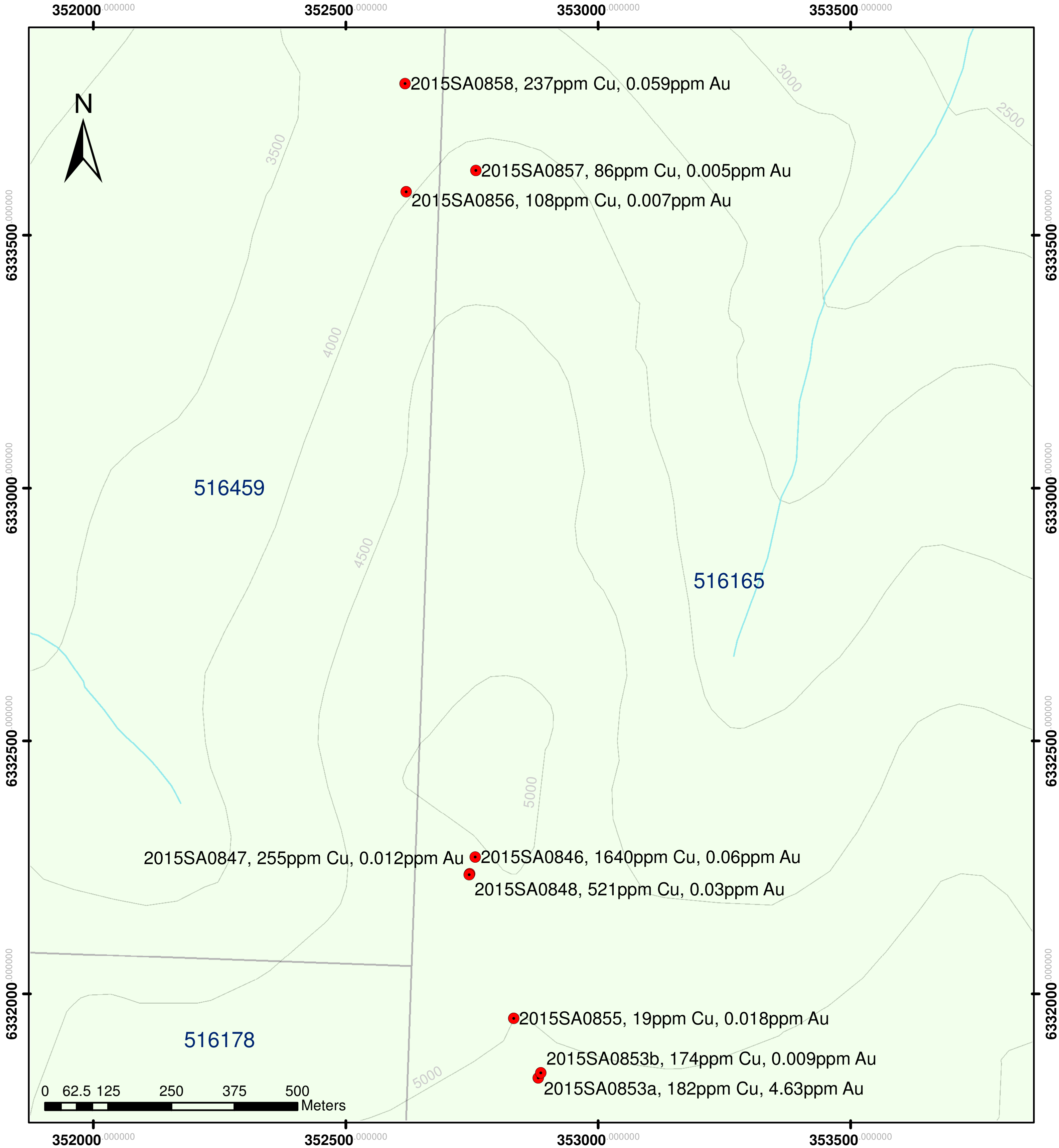


Figure 3. 2015 Geochemical Sample Location Map

LEGEND

- 2015 Geochemical Samples
- GCMC Mineral Tenure
- River, Stream
- Contour - 500ft

Galore Creek Mining Corporation

Scale 1:10,000
Datum: NAD83, UTM Zone 9
Date: 02/11/2016
Drawn by: S. Henderson

5.0 2015 SUMMARY OF WORK

The 2015 Galore Creek Mining Corporation field geochemical sampling program consisted of two days of work conducted between August 22, 2015 and August 24, 2015 at a cost of $7,429.32. The purpose of the field work was to explore the Saddle zone for any significant surface copper mineralization as reported by Yarrow and Taylor (1990), and investigate the south end of claim 516165 for anomalous base and precious metal values. Nine rock samples were collected for geochemical analysis from claims 516459 and 516165 (Figure 3). This report discusses the work completed during this period. Details of the reported assessment work expenditures can be found in Appendix II.

On December 12, 2015, under Event Number 5582038, geochemical work and PAC funds totalling $10,612 were filed on Galore Creek claims SPC 39 and SPC 40 (Table 4). The claim expiry dates will be advanced to May 20, 2018, upon government approval of this assessment report.

Helicopter support for the project was provided by Lake Else Air Ltd, of Terrace, BC. The following helicopter was supplied under charter arrangement or sublease: one Eurocopter (Astar) AS350B2.

6.0 GEOLOGY

6.1 Regional Geology

The following description of the regional geology is an excerpt from Simpson (2003). It has been divided into three parts: stratigraphy, intrusives, and structure.

> The Galore Creek deposits lie in Stikinia Terrane, an accreted package of Mesozoic volcanic and sedimentary rocks intruded by Cretaceous to Eocene plutonic and volcanic rocks. The eastern boundary of the Coast Plutonic complex lies about 7 kilometres to the west of the claims. The property lies within a regional transcurrent structure known as the Stikine Arch.
>
> **Stratigraphy**
>
> Stikine Terrane at this latitude can be grouped into four tectonostratigraphic successions. The first, and most important one in this area, is a Late Paleozoic to Middle Jurassic island arc suite represented by the Stikine assemblage of Monger (1970), the Stuhini Group (Kerr, 1948) and Hazelton Group equivalent rocks. The other successions are; Middle Jurassic to early Late Cretaceous successor-basin sediments of the Bowser Lake Group (Tipper and Richards, 1976); Late Cretaceous to Tertiary transtensional continental volcanic-arc assemblages of the Sloko Group (Aiken, 1959); and Late Tertiary to Recent post-orogenic plateau basalt bimodal volcanic rocks of the Edziza and Spectrum ranges.
>
> The oldest stratigraphy in the area is known as the Stikine assemblage and comprises Permian and older argillites, mafic to felsic flows and tuffs. These rocks grade upward into two distinctive Mississippian limestone members separated by intercalated volcanics and clastic sediments. The topmost stratigraphy consists of two regionally extensive Permian carbonate units which suggest a stable continental shelf depositional environment.
>
> The Middle to Upper Triassic Stuhini Group unconformably overlies the Stikine assemblage. Stuhini Group rocks comprise a variety of flows, tuffs, volcanic breccia and sediments, and are important host rocks to the alkaline-intrusive related gold-silver-copper mineralization at Galore Creek. They define a volcanic edifice centered on Galore Creek and represent an emergent Upper Triassic island arc characterized by

shoshonitic and leucitic volcanics (de Rosen-Spence, 1985), distal volcaniclastics and sedimentary turbidites. The succession at Galore Creek was divided by Panteleyev (1975) into a submarine basalt and andesite lower unit overlain by more differentiated, partly subaerial alkali-enriched flows and pyroclastic rocks.

Intrusives

Three intrusive episodes have been recognized in the region. The earliest and most important is the Middle Triassic to Middle Jurassic Hickman plutonic suite that is coeval with Upper Triassic Stuhini Group volcanic flows. The Mount Hickman batholith comprises three plutons known as Hickman, Yehinko and Nightout. The latter two are exposed north of the map area. The Schaft Creek porphyry copper deposit is associated with the Hickman stock, and is located 39 km northeast of Galore Creek. This stock is crudely zoned with a pyroxene diorite core and biotite granodiorite margins. Alkali syenites of the Galore complex like those found at the nearby Copper Canyon deposit and the pyroxene diorite bodies of the zoned Hickman pluton have been interpreted as differentiated end members of the Stuhini volcanic-Hickman plutonic suite, by Souther (1972) and Barr (1966). The alkali syenites are associated with important copper-gold-silver mineralization at Galore Creek and at Copper Canyon. These rocks are believed to be at least as old as Early Jurassic in age, based on K-Ar dating of hydrothermal biotite in the syenites intruding the sequences (Allen, 1966). An Ar-Ar age of 212 Ma (Logan et al., 1989) in syenite may give the time of crystallization of the intrusive rocks at Copper Canyon, to the east of Galore Creek. More recent U-Pb dates of Galore Creek syenites have given ages ranging from 205-210 Ma (Mortensen, 1995).

Coast Range intrusions comprise the large plutonic mass west of the map area. Three texturally and compositionally distinct intrusive phases were mapped by previous workers. From inferred oldest to youngest, they are potassium feldspar megacrystic granite to monzonite; biotite hornblende diorite to granodiorite; and biotite granite. Small tertiary intrusive stocks and dikes are structurally controlled in their distribution. At Galore Creek young post-mineral basalt and felsite dikes are abundant as a dike swarm in the northwest part of the property. Elsewhere, Tertiary intrusions may be important in their association with small gold occurrences.

Structure

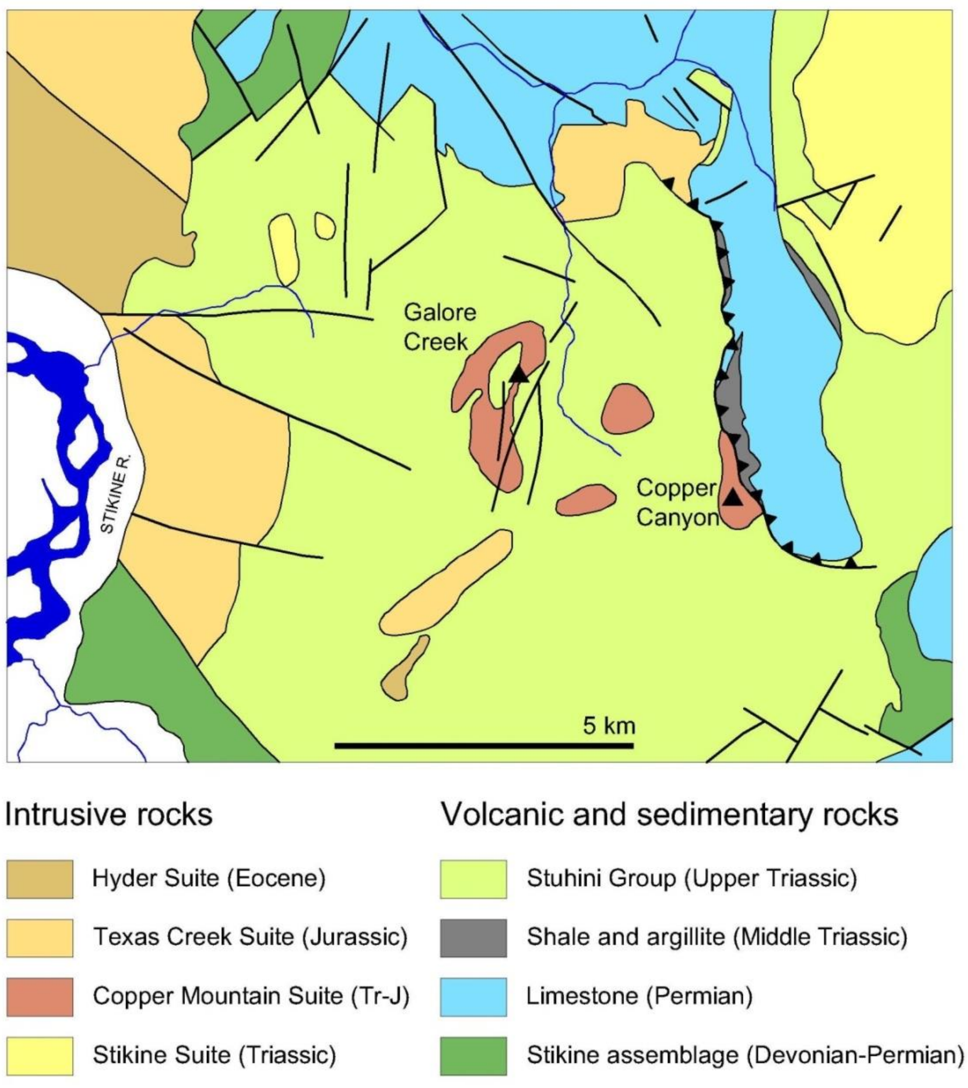
The regional geology has been affected by polyphase deformation and four main sets of faults. The oldest phase of folding is pre-Permian to post-Mississippian and affected the Paleozoic rocks between Round Lake and Sphaler Creek. This deformation is characterized by bedding plane parallel foliation in sediments and fragment flattening in volcaniclastics. Pre-Late Triassic folding is characterized by large, upright, tight to open folds with north to northwest trend of axial plane traces and westerly fold vergence. Metamorphism accompanying the first two phases of deformation reached greenschist facies. The third phase of folding is manifested as generally upright chevron folds with fold axes pointed west-northwesterly.

The oldest and longest-lived fault structures in the area have a north strike and sub-vertical dip. The best example occurs on the west flank of the Hickman batholith, where a major fault juxtaposes Permian limestone with a narrow belt of Stuhini Group volcanics. The second important fault type occurs at Copper Canyon as a west directed thrust fault with a north strike and east dip of 30 to 50 degrees. It juxtaposes overturned Permian limestone and Middle Triassic shale with Stuhini volcanics below. Early to Middle Jurassic syenite intrusions occupy this contact. A third important set of faults with north-west strike mark the boundary between Upper Triassic and Paleozoic rocks between Scud River and Jack Wilson Creek. The youngest faults have a northeast strike direction and are of great local importance. At Galore Creek, some of these faults show considerable post-mineral movement of up to 200 metres while others appear to control the emplacement of mineralized intrusive phases and breccia bodies.

6.2 Property Geology

The Galore Creek intrusive-volcanic complex is composed of multiple intrusions emplaced into volcanic and sedimentary rocks of similar composition. Country rocks to the syenite intrusions are volcanic flows and volcaniclastic sediments, with subordinate greywacke, siltstone and local conglomerate (Enns et al., 1995). Augite-bearing volcanic flows and tuffs underlie and are interbedded with the pseudoleucite-bearing and orthoclase-bearing flows, tuffaceous and fragmental units, which are prominent in the south and southwest parts of the complex (Enns et al., 1995). Multiple alkali syenite intrusive phases occur in the complex and are divided into the pre- to syn-mineralization intrusives (i1 to i4), syn- to post-mineralization intrusives (i5 to i9) and post-mineralization intrusives (i10 to i12). The complex is centered in the west fork of Galore Creek and is approximately 5 kilometres in length and 2 kilometres in width. To date, twelve copper-gold-silver mineralized zones have been identified on the property. Most zones, including the Central, North Junction, Junction, Middle Creek, West Rim, Butte and South 110, occur in highly altered volcanic rocks and to a lesser degree in syenite intrusions. The Southwest, Opulent, and Saddle zones are hosted by breccias and the North Rim and West Fork zones occur within syenite intrusions.

Figure 4: Geological map of the Copper Canyon and Galore Creek area (adapted from Enns et al., 1995, and Logan and Koyanagi, 1994, by Twelker, 2007).



6.3 Galore Creek Lithologic Descriptions

The following section is summarized from Workman (2011) to describe Galore Creek deposit lithologies encountered during the 2015 geochemical sampling program:

VOLCANIC ROCKS

(V1) AUGITE-BEARING VOLCANICS:
Augite-bearing flows contain porphyritic and, infrequently, amygdaloidal textures. Augite phenocrysts vary in size from 2-5 mm and are generally euhedral to subhedral, stubby and dark green to black. They comprise up to 30% of the rock and are supported in a medium to dark green, aphanitic groundmass. The augite phenocrysts are usually altered to biotite, epidote and chlorite. Locally, strong garnet-biotite-orthoclase alteration is also observed. Interbedded with the augite bearing flows are augite-bearing volcaniclastics in the form of fine and coarse lapilli tuffs, tuff breccias and flow breccias, containing subangular to subrounded fragments of augite porphyry. These volcaniclastics are generally matrix supported.

(V2) PSEUDOLEUCITE-BEARING VOLCANICS:
The original textures are often obliterated by intense orthoclase and sericite alteration. Copper/gold mineralization appears to occur preferentially in these rocks. In unaltered areas, euhedral and broken pseudoleucite phenocrysts up to 1.5 cm occur within a bluish grey to salmon pink groundmass. These phenocrysts often exhibit orthoclase-sericite altered cores. Rims are sometimes altered to sericite, magnetite and chlorite.

(V3) ORTHOCLASE-BEARING VOLCANICS:
Orthoclase-bearing volcanics are predominantly fine to coarse crystal lithic tuffs, with possible subordinate flows. They are often strongly mineralized with disseminated bornite, chalcopyrite and gold. They appear to be cogenetic and coeval with dark syenite porphyry intrusives, which may be their subvolcanic equivalents. The crystal fragments in the tuffs are broken orthoclase shards up to 7 mm across and are supported by a highly altered biotite-orthoclase +/- garnet-anhydrite matrix. Rare bedding is preserved locally.

UNDIFFERENTIATED VOLCANICS (V4, V5, V6)

In some areas, intense alteration has obliterated original textures resulting in the more vague classification of “undifferentiated volcanics”. Such rocks have been classified on the basis of colour and association.

(V4) MAFIC VOLCANICS:
Mafic volcanic rocks (V4) are dark green, chloritic flows and tuffs, common in the north part of the Central Zone. These are interbedded, and may in part be correlated with, unit V1 (augite-bearing volcanics). Porphyritic and amygdaloidal flow textures have been preserved locally and volcanic clasts are sometimes preserved in pyroclastic rocks.

(V5) INTERMEDIATE VOLCANICS:
Intermediate volcanic rocks (V5) are very common in the Central Zone. These rocks are medium greenish grey volcaniclastics and flows, and may be aphyric equivalents of the pseudoleucite bearing volcanic units. Included in this unit are possible trachy-andesites containing subrounded orthoclase phyric fragments. Aphanitic volcanic clasts up to 3 cm across have also been observed within a fine grained to aphanitic matrix. Secondary biotite occurs both as a spotted to patchy alteration and as coarse aggregates and veins.

(V6) FELSIC VOLCANICS:
Intense orthoclase flooding has resulted in pale grey, felsic volcanic rocks (V6) which are fine to medium grained volcaniclastics and flows. V6 rocks are present in the north and central part of the Central Zone, often interbedded with pseudoleucite volcanic rocks which may be their equivalent.

INTRUSIVE ROCKS

(i6/i8) EQUIGRANULAR AND PORPHYRITIC SYENITES:
This closely related family of syenites occur as tabular and irregular, anastomosing, steep dikes. They are distinguished primarily on matrix and phenocryst size differences.

Fine grained syenite (i6) is a medium green-grey, equigranular, fine grained intergrowth of orthoclase, altered hornblende and epidote.

Fine grained syenite porphyry (i7) is greenish grey, and composed of 2-5%, 2-10 millimetre, subhedral, tabular, and equant orthoclase phenocrysts set in a greenish, often epidote rich, fine grained groundmass of orthoclase, altered hornblende, and epidote. The rock is locally crystal poor, and texturally equivalent to i6 and i8.

Medium grained syenite (i8) is a medium green to grey, equigranular intergrowth of orthoclase, altered hornblende, epidote, and rare 2-5 millimetre orthoclase phenocrysts.

7.0 GEOCHEMICAL SAMPLING

7.1 Introduction

The 2015 geochemical sampling program at Galore Creek was carried out between August 22, 2015 and August 24, 2015. The sampling program consisted of nine (9) rock outcrop samples taken for ICP-MS and lithogeochemical analysis within the Saddle Zone area and on the ridge east of the Bountiful deposit within the GCMC claim block group. The Saddle Zone is located on a ridge overlooking the west fork of the Galore Creek valley, approximately 2.5km to the southeast of Galore Creek's main Central Zone deposit.

The following description of the Saddle zone is excerpted from Yarrow & Taylor (1990):

> The Saddle Zone occurs above treeline on a steep west facing slope near the southeast corner of the property. The zone is comprised of a magnetite cemented intrusive fragment breccia containing varying amounts of chalcopyrite, malachite and bornite with associated gold values. In plan it has a rough oval shape with approximate dimensions of 110 meters by 60 meters. Actual breccia-country rock contacts are obscured by rock scree and rubble.

The main objectives of the sampling program were to explore the Saddle Zone for mineral potential and surface magnetite breccia bodies encountered during Mingold's 1990 exploration program (Yarrow & Taylor, 1990), and to investigate the south end of claim 516165, which has been covered by glacial ice until recently. Sampling and prospecting on the ridge directly east of the Bountiful zone was completed to assess for the occurrence and nature of any sulphide mineralization.

Nine rock outcrop or sub-crop samples were collected during the 2015 sampling program by geologists Alicia Carpenter and Sarah Henderson. Eight of the samples were collected for ICP multi-element assaying, and one for lithogeochemical analysis. At each ICP sample location, approximately 1 kg of rock was chipped using a hammer and collected for assay. ICP samples were taken from outcrops suspected to have anomalous base or precious metal content. 3kg of rock were chipped from the outcrop that was taken for lithogeochemical analysis. The lithogeochemical sample was taken for rock characterization, thus effort was made to ensure that the least-weathered, least-altered material was collected. A waypoint was taken at each sample location using a handheld GPS, and all samples were given field descriptions of lithology, alteration and mineralization where present. Samples were bagged in poly sample bags, zap strapped, and flown to Schaft Creek camp, where they were stored in a secure location until shipment.

Samples were shipped to ALS Minerals Laboratories in North Vancouver for preparation and analysis. Sample preparation consisted of typical drying, crushing, splitting, and pulverizing (Prep Code PREP-31). The eight ICP samples were assayed by aqua regia digestion using a 51-element ICP-MS and ICP-AES analytical package at ALS (ME-MS41). Gold assays were performed by fire assay with an atomic absorption finish (Au-AA23), and copper values above 10,000 ppm were assayed by aqua regia digestion with ICP-AES finish (ME-OG46). A complete characterization package (CCP-PKG01) and XRF spectrometry (ME-XRF26) were used to quantify the major, trace, and rare earth elements, base metals, and gold present within the lithogeochemical rock sample. Standards, Blanks, and Duplicates were inserted into the sample batch at ALS to maintain geochemical quality control. Please see Appendix V for details of analytical and QA/QC procedures.

Locations and types of all samples collected during the 2015 field program can be found in Table 5 below.

Table 5: 2015 Galore Creek Geochemical Sample Locations

WPT	UTM_E*	UTM_N*	Elevation (m)	Sample ID	Sample Type	Claim #
846	352756	6332271	1554	2015SA0846	ICP-MS	516165
847	352745	6332238	1529	2015SA0847	ICP-MS	516165
848	352744	6332236	1529	2015SA0848	ICP-MS	516165
853a	352881	6331834	1563	2015SA0853a	ICP-MS	516165
853b	352886	6331844	1563	2015SA0853b	Lithogeochem	516165
855	352832	6331952	1531	2015SA0855	ICP-MS	516165
856	352619	6333586	1220	2015SA0856	ICP-MS	516459
857	352757	6333628	1239	2015SA0857	ICP-MS	516165
858	352617	6333800	1171	2015SA0858	ICP-MS	516459

*UTM NAD 83, Zone 9

7.2 Summary of Geochemical Results

The following section describes the lithology, alteration and mineralization where present for each sample taken, as well as the geochemical results of the rock samples taken on the GCMC claims (from Table 5). ALS assay certificates are located in Appendix IV. A map of the locations of the geochemical samples can be found in Figure 3.

The majority of the nine rock types encountered during the 2015 sampling program were identified as volcanic and alkaline igneous rocks found within the Galore Creek deposit – either intrusives of the Galore Creek syenite complex (i7 or i8), or Stuhini Group volcanics (V1-V6). All samples were assayed to test for metals of interest.

One sample (2015SA0853b) was analyzed for lithogeochemical characterization purposes.

7.2.1 ICP Sampling

Sample descriptions, and copper, gold, and silver assay results from the nine samples collected are presented below in Table 6.

Eight samples collected during the 2015 field program returned elevated Cu values (2015SA0846, 0847, 0848, 853a, 0853b, 0856, and 0858). Six (6) of these samples contained copper oxide mineralization (malachite), and originated from rock outcrop or sub-crop in the southern end of claim 516165. One sample showing trace chalcopyrite (2015SA0855) did not return anomalous Cu values. Yarrow and Taylor (1990) report the occurrence of chalcopyrite and magnetite mineralization in breccia bodies in the Saddle zone; and numerous rock outcrops and sub-crops were encountered that contained massive magnetite veining or brecciation, consistent with 1990 Saddle zone exploration results and with breccia mineralization present in the West Fork and Southwest zones of the Galore Creek deposit. No breccia bodies or outcropping exhibiting significant chalcopyrite or bornite mineralization were encountered during the 2015 program; however new ground was covered during the 2015 traverse, thus it is probable numerous areas that were sampled in 1990 were not located during the 2015 program.

Samples 2015SA0856 and 2015SA0858, which returned elevated copper values, were taken from outcrop east of the Bountiful zone deposit mapped as equigranular, medium-grained syenite (i8). No copper sulphide mineralization was observed at the outcrops where the samples were taken. Trace malachite was seen in sample 2015SA0858, and it is assumed this is responsible for the slightly elevated Cu value in that sample. Trace fine-grained disseminated pyrite was observed in sample 2015SA0856.

Table 6: 2015 Galore Creek Claims Sampling and Results

UTM*_E	UTM*_N	Sample Type and Description	Sample ID	Au ppm	Cu ppm	Ag ppm
352756	6332271	ICP – GRAB: "i7" porphyry sub-crop. 30%, 2-3mm, subhedral, sericite altered kspar + minor plag phenos. Trace malachite on fractures.	2015SA0846	0.06	1640	1.59
352745	6332238	ICP – GRAB: "i7". Green, chlorite altered, fine-grained equigranular groundmass with 30%, 2-3mm, sericite altered feldspar phenos. ~2%, 3-4mm lathy, kspar phenos. Trace malachite on fractures.	2015SA0847	0.012	255	0.21
352744	6332236	ICP – GRAB: Close to WPT 847. Same lithology, more malachite observed.	2015SA0848	0.03	521	0.5
352881	6331834	ICP – GRAB: Medium grained equigranular syenite (i8) – silicified? Abundant (~0.5-2%) disseminated pyrite + py in veins, locally up to 5-10%. Sample 2015SA0853A taken for ICP. Outcrop right next to the toe of the glacier (farthest south exposure). ~5 m east - shear zone: oxidized, brecciated, with pyrite - appears volcanic. Shear orientation: 216/062.	2015SA0853**a**	4.63	182.5	1.57
352886	6331844	LITHO – GRAB: further north, ~10m away from the shear zone @WPT 853a: change in rock type. Aphanitic, light grey-green unit with ~0.5% biotite phenos (after mafic). Volcanic or Intrusive? No sulphides seen. Lithogeochem sample taken for characterization.	2015SA0853b	0.009	174	<0.05
352832	6331952	ICP – GRAB: Greenish coloured, appears intrusive ("i7"?) but could be volcanic. Disseminated magnetite and trace cpy within outcrop. Calcite replacement.	2015SA0855	0.018	18.9	0.07
352619	6333586	ICP – GRAB: North side of ridge - east of Bountiful pit. i8 (medium-grained, equigranular syenite). Fairly fresh, weak epi alteration. Very trace, fine-grained, disseminated pyrite.	2015SA0856	0.007	107.5	0.1
352757	6333628	ICP – GRAB: i8 equigranular kspar, hbl/bio. No sulphides observed.	2015SA0857	0.005	85.7	0.08
352617	6333800	ICP – GRAB: Classic i8. Trace malachite, no sulphides observed.	2015SA0858	0.059	237	0.12

*UTM NAD 83, Zone 9

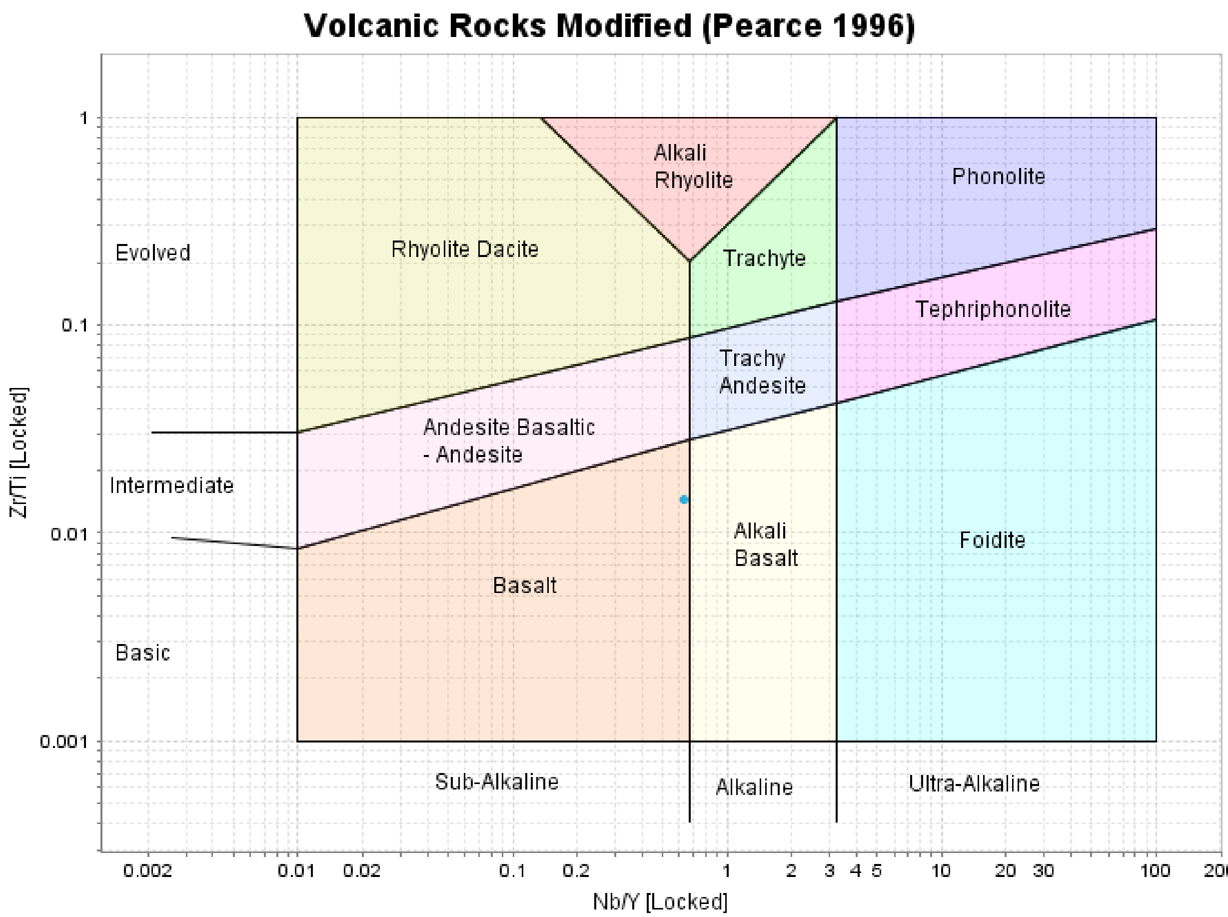
Six of the samples with elevated copper also returned elevated silver values (2015SA0846, 0847, 0848, 0853a, 0856, and 0858).

One sample (2015SA0853a) returned an anomalous Au value of 4.63 ppm (g/t) Au, which is similar in magnitude to Au values in intervals intersected or re-assayed during 1990 drilling and sampling in the Saddle zone (Yarrow & Taylor, 1990). Sample 2015SA0853a was a grab sample taken from outcrop mapped as an equigranular syenite intrusive of the Galore Creek syenite complex (i8), mineralized with abundant (0.5% to 10% locally) disseminated and vein-hosted pyrite. No copper sulphides were noted where the sample was taken; however this sample was taken from outcrop that was recently exposed by the retreat of glacial ice, and the entire outcrop was not investigated. Near this sample, a brecciated shear zone was mapped within a volcanic rock outcrop five meters to the east, with pyrite noted in the shear. A contact has been inferred between the intrusive (i8) unit where sample 2015SA0853a was taken, and the sheared volcanic. Much of the area between these two outcrops is covered in glacial till and loose rubble.

7.2.2. Lithogeochemical Sampling

Sample 2015SA0853b sent for lithogeochemical characterization was mapped as light grey-green and aphanitic, with approximately 0.5% biotite phenocrysts (altering primary mafic crystals). No sulphides were observed in the sample. The outcrop was not identified as a Galore Creek deposit lithology, thus a sample was taken for lithogeochemical characterization. Sample 2015SA0853b originated from outcrop in close proximity to the brecciated, oxidized, and pyrite mineralized shear zone described above.

Figure 5. Volcanic Rock Classification Diagram (Pearce, 1996, Modified after Winchester & Floyd 1977)



Sample 2015SA0853b plots as a sub-alkaline basalt (see Figure 5) on the volcanic rock classification diagram above (Pearce, 1996). Based on this classification, this unit is part of the regional Stuhini volcanic package which hosts mineralization of the Galore Creek deposit. It is interesting to note that this sample also returned anomalous copper values of 174 ppm though no copper bearing minerals were observed (see Table 6).

8.0 DISCUSSION AND CONCLUSIONS

During the 2015 field season, a total of nine rock samples were collected on the main GCMC claim package, to the southeast and east of the main Galore Creek deposit, for ICP-MS and lithogeochemical analysis.

The purpose of the field work was to explore the Saddle zone area for any significant surface copper mineralization, and investigate the south end of claim 516165 for anomalous base and precious values where glacial retreat has recently uncovered new ground. Sampling and prospecting on the ridge directly east of the Bountiful zone was completed to assess for the occurrence and nature of any sulphide mineralization.

Sampling from the 2015 geochemical program returned anomalous assay results – eight samples with elevated copper, six samples with elevated silver, and one sample with high gold grades. The majority of these samples displayed copper oxide mineralization, and were taken in the south end of claim 516165. The three samples from taken east of the Bountiful zone did not display any significant sulphide mineralization.

Sample 2015SA0853a, which returned elevated gold was a grab sample taken from the southernmost outcrop, recently exposed by retreating glacial ice. Recommended work includes chip sampling over this outcrop, to follow up on this showing to the east and west following the retreat line of glacial ice, and to characterize typical pyrite mineralization and gold in the outcrop if present. The shear zone at field station 0853a should also be mapped and traced, and the lithological units on either side should be sampled.

Future work should also focus on identification of the extent of mineralized breccia bodies in the Saddle zone reported in 1990 by Mingold, through detailed sampling and mapping. In addition, following up on all anomalous values encountered during the 2015 field program, and locating trenches reported by Yarrow and Taylor (1990) that returned significant Cu and Au values is recommended.

APPENDIX I

REFERENCES

References

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APPENDIX II

STATEMENT OF EXPENDITURES

Statement of Expenditures

Galore Creek Geochemical Sampling program

Period of Field Work: August 22, 2015 to August 24, 2015
Work Performed on Claims: 516459 & 516165

Indirect Sampling Costs:	
Helicopter Support – Lake Else Air Ltd	
Astar 350B2 ($1,150/hr) – 1 hour	$1,150
Helicopter Fuel (123L @$1.77/litre)	$218.30
Camp Support Costs:	
Helicopter, fuel, food, safety, and maintenance crews	
Camp accommodation rate per day: $235 (2 crew/day, 2 days)	$940
Sample Assaying and Freight Costs:	
ALS Minerals Lab (9 samples)	$557.02
Shipping (Bandstra)	$100
Geochemical Sampling and Report Preparation Costs:	
Geologists Sarah Henderson and Alicia Carpenter (Aug 22 & Aug 24, 2015)	$2392.00
Report preparation (GCMC)	$2,072
Subtotal:	**$7,429.32**

TOTAL WORK AVAILABLE FOR ASSESSMENT CREDIT:	**$7,429.32**
FUNDS DEBITED FROM PAC (211373)	**$3,183.44**
Total Assessment Work Applied to Mineral Claims:	**$10,612.76**
Event Number: 5582038	

APPENDIX III

STATEMENT OF QUALIFICATION

Galore Creek Mining
CORPORATION

GEOLOGIST'S CERTIFICATE

I, Sarah L. Henderson, do hereby certify that:

1. I am a geologist in the minerals exploration industry employed by:
   Galore Creek Mining Corporation
   3300-550 Burrard Street
   Vancouver, BC, V6C 0B3

2. I graduated from the University of British Columbia, Vancouver, British Columbia, with a Bachelor of Science degree in Earth and Ocean Science in 2009.

3. I have practiced my profession with exploration companies in British Columbia and Ontario, Canada for seven years. I've worked continuously for the last four and a half years on the Galore Creek Project, B.C.

4. I am the author of the '2015 Geochemical Assessment Report on the Galore Creek Property', dated February, 2016.

5. The Assessment Report is based on site visits, information provided by independent consultants under contract to the Galore Creek Mining Corporation, historical reports, and from information available from public files.

6. I have no interest in the property herein.

Dated at Vancouver, British Columbia, Canada this 26th day of February, 2016.

Sarah Henderson

Sarah L. Henderson

APPENDIX IV

ASSAY CERTIFICATES

(Attached Digitally)

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

To: GALORE CREEK MINING CORPORATION
SUITE 3300, 550 BURRARD STREET
VANCOUVER BC V6C 0B3

Finalized Date: 29- SEP- 2015
Account: GALCRE

CERTIFICATE VA15143387

Project: Galore Creek
P.O. No.: 13053
This report is for 9 Rock samples submitted to our lab in Vancouver, BC, Canada on 15- SEP- 2015.
The following have access to data associated with this certificate:

SARAH HENDERSON		

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	
Au- AA23	Au 30g FA- AA finish	AAS

To: GALORE CREEK MINING CORPORATION
ATTN: SARAH HENDERSON
SUITE 3300, 550 BURRARD STREET
VANCOUVER BC V6C 0B3

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.

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ALS Minerals

To: GALORE CREEK MINING CORPORATION
SUITE 3300, 550 BURRARD STREET
VANCOUVER BC V6C 0B3

Finalized Date: 29- SEP- 2015
Account: GALCRE

Project: Galore Creek

CERTIFICATE OF ANALYSIS VA15143387

Sample Description	Method	WEI- 21	Au- AA23	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.02	0.005	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1
2015SA846		1.62	0.060		1.59	1.22	4.1	<0.2	<10	80	0.65	0.09	1.81	0.23	17.70	16.0
2015SA847		2.84	0.012		0.21	1.25	4.5	<0.2	<10	40	0.35	0.04	1.50	0.14	14.90	12.0
2015SA848		1.18	0.030		0.50	1.14	5.1	<0.2	<10	40	0.33	0.06	1.39	0.19	13.75	10.1
2015SA853a		1.62	4.63		1.57	0.62	56.8	4.3	<10	30	0.64	0.55	2.13	8.27	14.55	36.8
2015SA853b		1.04		0.009												
2015SA855		1.52	0.018		0.07	1.30	5.2	<0.2	<10	340	0.88	0.03	4.14	0.36	23.2	19.3
2015SA856		2.86	0.007		0.10	1.79	5.1	<0.2	10	60	0.25	0.04	1.70	0.08	13.50	17.2
2015SA857		1.52	0.005		0.08	1.65	2.9	<0.2	<10	60	0.37	0.04	1.22	0.08	17.45	15.7
2015SA858		2.28	0.059		0.12	1.86	2.3	<0.2	<10	90	0.33	0.04	2.00	0.04	17.15	18.0

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

ALS Canada Ltd.

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Finalized Date: 29- SEP- 2015
Account: GALCRE

Project: Galore Creek

CERTIFICATE OF ANALYSIS VA15143387

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOR	1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
2015SA846		5	0.67	1640	4.87	6.61	0.14	0.21	0.02	0.127	0.22	10.6	11.9	1.08	1220	2.97
2015SA847		6	0.20	255	3.64	5.13	0.16	0.19	<0.01	0.013	0.16	8.1	5.8	0.56	452	1.20
2015SA848		5	0.25	521	3.31	4.88	0.16	0.28	0.01	0.020	0.16	8.0	4.4	0.43	408	1.45
2015SA853a		4	0.83	182.5	5.85	2.94	0.13	0.07	0.04	0.059	0.49	6.7	5.0	0.65	5170	5.57
2015SA853b																
2015SA855		11	0.77	18.9	4.80	7.18	0.14	0.04	0.01	0.038	0.31	13.0	8.1	1.78	1780	0.56
2015SA856		2	0.16	107.5	4.21	6.03	0.15	0.19	0.01	0.015	0.17	6.6	6.6	1.17	760	0.51
2015SA857		2	0.48	85.7	4.11	6.48	0.15	0.21	0.01	0.019	0.21	9.0	9.2	1.07	826	0.92
2015SA858		3	0.32	237	4.70	5.72	0.13	0.13	0.01	0.013	0.32	8.3	7.7	1.18	841	0.57

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To: GALORE CREEK MINING CORPORATION
SUITE 3300, 550 BURRARD STREET
VANCOUVER BC V6C 0B3

Finalized Date: 29- SEP- 2015
Account: GALCRE

Project: Galore Creek

CERTIFICATE OF ANALYSIS VA15143387

Sample Description	Method / Analyte / Units / LOR	ME- MS41 Na % 0.01	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01
2015SA846		0.07	0.16	5.7	1220	21.1	9.1	0.010	0.03	0.73	9.3	0.6	0.9	58.0	<0.01	0.04
2015SA847		0.08	0.77	5.7	1530	5.5	6.4	0.004	<0.01	1.07	2.1	0.4	0.6	134.0	<0.01	<0.01
2015SA848		0.09	0.85	4.3	1370	4.7	6.9	0.006	0.01	1.08	2.0	0.4	0.9	153.5	<0.01	0.01
2015SA853a		0.01	<0.05	12.7	2590	104.0	28.2	0.003	4.41	1.35	21.8	4.5	0.2	85.9	<0.01	0.11
2015SA853b																
2015SA855		0.03	0.07	9.3	2230	11.2	17.1	<0.001	0.03	0.57	16.4	0.7	0.2	180.0	<0.01	<0.01
2015SA856		0.06	0.32	2.7	2510	3.9	6.8	<0.001	<0.01	0.48	5.1	0.5	0.3	200	<0.01	<0.01
2015SA857		0.08	0.48	2.5	1960	14.9	8.3	<0.001	<0.01	0.21	6.8	0.5	0.3	179.0	<0.01	<0.01
2015SA858		0.06	0.24	3.6	2790	2.0	14.6	0.001	<0.01	0.29	5.6	0.6	0.2	142.0	<0.01	0.01

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Finalized Date: 29- SEP- 2015
Account: GALCRE

Project: Galore Creek

CERTIFICATE OF ANALYSIS VA15143387

Sample Description	Method Analyte Units LOR	ME- MS41 Th ppm 0.2	ME- MS41 Ti % 0.005	ME- MS41 Tl ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5
2015SA846		1.4	0.077	0.03	1.00	141	0.95	10.55	150	5.9
2015SA847		1.1	0.180	<0.02	0.57	139	0.85	9.76	68	5.1
2015SA848		1.1	0.177	<0.02	0.78	118	1.06	9.01	65	8.4
2015SA853a		0.6	0.006	0.33	0.35	84	0.47	11.60	256	2.1
2015SA853b										
2015SA855		1.6	0.024	0.14	0.70	177	0.24	10.80	234	1.4
2015SA856		0.6	0.209	0.02	0.26	177	0.57	11.05	70	4.6
2015SA857		1.7	0.152	0.02	0.47	162	0.44	13.35	64	4.9
2015SA858		0.6	0.195	0.03	0.31	193	0.33	13.50	69	3.1

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

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SUITE 3300, 550 BURRARD STREET
VANCOUVER BC V6C 0B3

Finalized Date: 29- SEP- 2015
Account: GALCRE

Project: Galore Creek

CERTIFICATE OF ANALYSIS VA15143387

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

Applies to Method: ME- MS41

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:

Au- AA23	Au- ICP21	CRU- 31	CRU- QC
LOG- 22	ME- MS41	PUL- 31	SPL- 21
WEI- 21			

ALS Canada Ltd.

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To: GALORE CREEK MINING CORPORATION
SUITE 3300, 550 BURRARD STREET
VANCOUVER BC V6C 0B3

Finalized Date: 1- OCT- 2015
Account: GALCRE

CERTIFICATE VA15143592

Project: Galore Creek
P.O. No.: 13053
This report is for 1 Rock sample submitted to our lab in Vancouver, BC, Canada on 15- SEP- 2015.
The following have access to data associated with this certificate:
SARAH HENDERSON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- 4ACD81	Base Metals by 4- acid dig.	ICP- AES
ME- XRF26	Whole Rock By Fusion/XRF	XRF
OA- GRA05x	LOI for XRF	WST- SEQ
ME- MS42	Up to 34 elements by ICP- MS	ICP- MS
S- IR08	Total Sulphur (Leco)	LECO
C- IR07	Total Carbon (Leco)	LECO
ME- MS81	Lithium Borate Fusion ICP- MS	ICP- MS

To: GALORE CREEK MINING CORPORATION
ATTN: SARAH HENDERSON
SUITE 3300, 550 BURRARD STREET
VANCOUVER BC V6C 0B3

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
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Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: GALORE CREEK MINING CORPORATION
SUITE 3300, 550 BURRARD STREET
VANCOUVER BC V6C 0B3

Finalized Date: 1- OCT- 2015
Account: GALCRE

Project: Galore Creek

CERTIFICATE OF ANALYSIS VA15143592

Sample Description	Method Analyte Units LOR	ME- XRF26 Al2O3 % 0.01	ME- XRF26 BaO % 0.01	ME- XRF26 CaO % 0.01	ME- XRF26 Cr2O3 % 0.01	ME- XRF26 Fe2O3 % 0.01	ME- XRF26 K2O % 0.01	ME- XRF26 MgO % 0.01	ME- XRF26 MnO % 0.01	ME- XRF26 Na2O % 0.01	ME- XRF26 P2O5 % 0.01	ME- XRF26 SiO2 % 0.01	ME- XRF26 SrO % 0.01	ME- XRF26 TiO2 % 0.01	OA- GRA05x LOI 1000 % 0.01	ME- XRF26 Total % 0.01
2015SA853b		13.62	0.17	9.26	0.01	9.82	5.89	3.71	0.42	2.22	0.49	44.22	0.09	0.61	8.39	99.32

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

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To: GALORE CREEK MINING CORPORATION
SUITE 3300, 550 BURRARD STREET
VANCOUVER BC V6C 0B3

Finalized Date: 1- OCT- 2015
Account: GALCRE

Project: Galore Creek

CERTIFICATE OF ANALYSIS VA15143592

Sample Description	Method / Analyte / Units / LOR	ME- MS81 Ba ppm 0.5	ME- MS81 Ce ppm 0.5	ME- MS81 Cr ppm 10	ME- MS81 Cs ppm 0.01	ME- MS81 Dy ppm 0.05	ME- MS81 Er ppm 0.03	ME- MS81 Eu ppm 0.03	ME- MS81 Ga ppm 0.1	ME- MS81 Gd ppm 0.05	ME- MS81 Ge ppm 5	ME- MS81 Hf ppm 0.2	ME- MS81 Ho ppm 0.01	ME- MS81 La ppm 0.5	ME- MS81 Lu ppm 0.01	ME- MS81 Nb ppm 0.2
2015SA853b		1430	23.3	20	0.89	2.93	1.73	0.99	15.3	3.25	<5	1.7	0.67	13.7	0.26	9.9

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

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VANCOUVER BC V6C 0B3

Finalized Date: 1- OCT- 2015
Account: GALCRE

Project: Galore Creek

CERTIFICATE OF ANALYSIS VA15143592

Sample Description	Method Analyte Units LOR	ME- MS81 Nd ppm 0.1	ME- MS81 Pr ppm 0.03	ME- MS81 Rb ppm 0.2	ME- MS81 Sm ppm 0.03	ME- MS81 Sn ppm 1	ME- MS81 Sr ppm 0.1	ME- MS81 Ta ppm 0.1	ME- MS81 Tb ppm 0.01	ME- MS81 Th ppm 0.05	ME- MS81 Tm ppm 0.01	ME- MS81 U ppm 0.05	ME- MS81 V ppm 5	ME- MS81 W ppm 1	ME- MS81 Y ppm 0.5	ME- MS81 Yb ppm 0.03
2015SA853b		12.2	2.92	110.5	2.93	1	837	0.3	0.53	2.42	0.25	1.52	377	4	15.8	2.02

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

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Finalized Date: 1- OCT- 2015
Account: GALCRE

Project: Galore Creek

CERTIFICATE OF ANALYSIS VA15143592

Sample Description	Method Analyte Units LOR	ME- MS81 Zr ppm 2	ME- 4ACD81 Ag ppm 0.5	ME- 4ACD81 Cd ppm 0.5	ME- 4ACD81 Co ppm 1	ME- 4ACD81 Cu ppm 1	ME- 4ACD81 Li ppm 10	ME- 4ACD81 Mo ppm 1	ME- 4ACD81 Ni ppm 1	ME- 4ACD81 Pb ppm 2	ME- 4ACD81 Sc ppm 1	ME- 4ACD81 Zn ppm 2	ME- MS42 As ppm 0.1	ME- MS42 Bi ppm 0.01	ME- MS42 Hg ppm 0.005	ME- MS42 In ppm 0.005
2015SA853b		53	<0.5	1.0	22	174	10	<1	11	44	37	199	9.1	0.04	<0.005	0.032

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

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Finalized Date: 1- OCT- 2015
Account: GALCRE

Project: Galore Creek

CERTIFICATE OF ANALYSIS VA15143592

Sample Description	Method	ME- MS42	ME- MS42	ME- MS42	ME- MS42	ME- MS42	ME- MS42	S- IR08	C- IR07
	Analyte	Re	Sb	Sc	Se	Te	Tl	S	C
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	LOR	0.001	0.05	0.1	0.2	0.01	0.02	0.01	0.01
2015SA853b		<0.001	0.25	23.0	0.5	0.08	0.09	0.09	1.86

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

ALS Canada Ltd.

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To: GALORE CREEK MINING CORPORATION
SUITE 3300, 550 BURRARD STREET
VANCOUVER BC V6C 0B3

Finalized Date: 1- OCT- 2015
Account: GALCRE

Project: Galore Creek

CERTIFICATE OF ANALYSIS VA15143592

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	C- IR07	FND- 02	ME- 4ACD81	ME- MS42
	ME- MS81	ME- XRF26	OA- GRA05x	S- IR08

APPENDIX V

ANALYTICAL PROCEDURES

(Attached Digitally)

Au- AA23 & Au- AA24
Fire Assay Fusion, AAS Finish

Sample Decomposition:

Fire Assay Fusion (FA-FUS01 & FA-FUS02)

Analytical Method:

Atomic Absorption Spectroscopy (AAS)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 mL dilute nitric acid in the microwave oven, 0.5 mL concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4 mL with de-mineralized water, and analyzed by atomic absorption spectroscopy against matrix-matched standards.

Method Code	Element	Symbol	Units	Sample Weight (g)	Lower Limit	Upper Limit	Default Overlimit Method
Au-AA23	Gold	Au	ppm	30	0.005	10.0	Au-GRA21
Au-AA24	Gold	Au	ppm	50	0.005	10.0	Au-GRA22

Geochemical Package – CCP-PKG01
Complete Characterization

By combining a number of methods into one cost effective package, a complete characterization is obtained. This package combines the whole rock package ME-ICP06 plus carbon and sulfur by combustion furnace (ME-IR08) to quantify the major elements in a sample. Trace elements including the full rare earth element suite are reported from three digestions with either ICP-AES or ICP-MS finish: A lithium borate fusion for the resistive and rare earth elements (ME-MS81), a four acid digestion for the basemetals (ME-4ACD81) and an aqua regia digestion for the volatile gold related trace elements (ME-MS42).

The nature of Lithophile elements and the matrices in which they occur require stronger dissolution procedures. The most accurate results will therefore be obtained using fusion as the dissolution procedure.

Whole Rock Geochemistry – ME-ICP06 and OA-GRA05
Analysis of major oxides by ICP-AES

ME-ICP06

Sample Decomposition:

Lithium Metaborate/Lithium Tetraborate ($LiBO_2/Li_2B4O_7$) Fusion* (FUS LI01)

Analytical Method:

Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP-AES)

A prepared sample (0.200 g) is added to lithium metaborate/lithium tetraborate flux, mixed well and fused in a furnace at 1025°C. The resulting melt is then cooled and dissolved in an acid mixture containing nitric, hydrochloric and hydrofluoric acids. This solution is then analyzed by ICP-AES. Results are corrected for spectral inter-element interferences and reported.

Element	Symbol	Units	Lower Limit	Upper Limit
Silica	SiO_2	%	0.01	100
Aluminum	Al_2O_3	%	0.01	100
Iron	Fe_2O_3	%	0.01	100
Calcium	CaO	%	0.01	100

Element	Symbol	Units	Lower Limit	Upper Limit
Magnesium	MgO	%	0.01	100
Sodium	Na_2O	%	0.01	100
Potassium	K_2O	%	0.01	100
Chromium	Cr_2O_3	%	0.01	100
Titanium	TiO_2	%	0.01	100
Manganese	MnO	%	0.01	100
Phosphorus	P_2O_5	%	0.01	100
Strontium	SrO	%	0.01	100
Barium	BaO	%	0.01	100

OA-GRA05
Loss on Ignition

Sample Decomposition:

Thermal decomposition Furnace (OA-GRA05)

Analytical Method:

Gravimetric

If required, the total oxide content is determined from the ICP analyte concentrations and loss on Ignition (L.O.I.) values. A prepared sample (1.0 g) is placed in an oven at 1000°C for one hour, cooled and then weighed. The percent loss on ignition is calculated from the difference in weight.

Method Code	Element	Symbol	Units	Lower Limit	Upper Limit
OA-GRA05	Loss on Ignition	LOI	%	0.01	100

Total Carbon – Method Code C-IR07

Sample Decomposition:

LECO Furnace

Analytical Method:

Infrared Spectroscopy

The sample is combusted in a LECO induction furnace. The generated CO2 is quantitatively detected by infrared spectrometry and reported as percent carbon.

Method Code	Element	Symbol	Units	Lower Limit	Upper Limit
C-IR07	Carbon	C	%	0.01	50

Specialty Assay Procedure – Total Sulphur S-IR08

Sample Decomposition:

Various

Analytical Method:

Leco sulphur analyzer, Gravimetric

The sample is analyzed for Total Sulphur using a Leco sulphur analyzer. Sulphur dioxide released from the sample is measured by an IR detection system and the Total Sulphur result is provided.

Method Code	Element	Symbol	Units	Lower Limit	Upper Limit
S-IR08	Sulphur	S	%	0.01	50

ME-MS81
Lithogeochemistry

Sample Decomposition:

Lithium Borate ($LiBO_2/Li_2B_4O_7$) Fusion (FUS-LI01)*

Analytical Method:

Inductively Coupled Plasma - Mass Spectroscopy (ICP - MS)

A prepared sample (0.100 g) is added to lithium metaborate/lithium tetraborate flux, mixed well and fused in a furnace at 1025°C. The resulting melt is then cooled and dissolved in an acid mixture containing nitric, hydrochloric and hydrofluoric acids. This solution is then analyzed by inductively coupled plasma - mass spectrometry.

Element	Symbol	Unit	Lower Limit	Upper Limit
Barium	Ba	ppm	0.5	10000
Cerium	Ce	ppm	0.5	10000
Chromium	Cr	ppm	10	10000
Cesium	Cs	ppm	0.01	10000
Dysprosium	Dy	ppm	0.05	1000
Erbium	Er	ppm	0.03	1000
Europium	Eu	ppm	0.03	1000
Gallium	Ga	ppm	0.1	1000
Gadolinium	Gd	ppm	0.05	1000
Hafnium	Hf	ppm	0.2	10000
Holmium	Ho	ppm	0.01	1000
Lanthanum	La	ppm	0.5	10000
Lutetium	Lu	ppm	0.01	1000
Niobium	Nb	ppm	0.2	2500
Neodymium	Nd	ppm	0.1	10000

Geochemical Package

Element	Symbol	Unit	Lower Limit	Upper Limit
Praseodymium	Pr	ppm	0.03	1000
Rubidium	Rb	ppm	0.2	10000
Samarium	Sm	ppm	0.03	1000
Tin	Sn	ppm	1	10000
Strontium	Sr	ppm	0.1	10000
Tantalum	Ta	ppm	0.1	2500
Terbium	Tb	ppm	0.01	1000
Thorium	Th	ppm	0.05	1000
Thallium	Tl	ppm	0.5	1000
Thullium	Tm	ppm	0.01	1000
Uranium	U	ppm	0.05	1000
Vanadium	V	ppm	5	10000
Tungsten	W	ppm	1	10000
Yttrium	Y	ppm	0.5	10000
Ytterbium	Yb	ppm	0.03	1000
Zirconium	Zr	ppm	2	10000

*__Note__: Minerals that may not recover fully using the lithium borate fusion include zircon, some metal oxides, some rare-earth phosphates and some sulphides. Basemetals also do not fully recover using this method.

Geochemical Package

ME-4ACD81 Addition of Basemetals

Sample Decomposition:

4-Acid (GEO-4ACID)

Analytical Method:

Inductively Coupled Plasma – Atomic Emission Spectroscopy (ICP-AES

A prepared sample (0.25 g) is digested with perchloric, nitric, hydrofluoric and hydrochloric acids. The residue is topped up with dilute hydrochloric acid and the resulting solution is analyzed by inductively coupled plasma-atomic emission spectrometry. Results are corrected for spectral inter-element interferences.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.5	100
Cadmium	Cd	ppm	0.5	1000
Cobalt	Co	ppm	1	10000
Copper	Cu	ppm	1	10000
Lithium	Li	ppm	10	10000
Molybdenum	Mo	ppm	1	10000
Nickel	Ni	ppm	1	10000
Lead	Pb	ppm	2	10000
Zinc	Zn	ppm	2	10000

Geochemical Procedure – ME-MS42
Single Element Trace Level Methods Using ICP-MS

Sample Decomposition:

Aqua Regia Digestion (GEO-AR01)

Analytical Method:

Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

A prepared sample (0.50 g) is digested with aqua regia for 45 minutes. After cooling, the resulting solution is diluted to 12.5 mL with de-ionized water, mixed and analyzed by inductively coupled plasma-mass spectrometry. The analytical results are corrected for inter element spectral interferences.

Element	Symbol	Units	Lower Limit	Upper Limit
Arsenic	As	ppm	0.1	250
Bismuth	Bi	ppm	0.01	250
Mercury	Hg	ppm	0.005	250
Antimony	Sb	ppm	0.05	250
Selenium	Se	ppm	0.2	250
Tellurium	Te	ppm	0.01	250

QUALITY ASSURANCE OVERVIEW

Laboratory Accreditation and Certification

SCC Accredited LAB
LAB Accrédité CCN ™

ISO/IEC 17025

The North American analytical laboratories are accredited by the Standards Council of Canada (SCC) for specific tests listed in the Scopes of Accreditation to ISO/IEC 17025, the General Requirements for the Competence of Testing and Calibration Laboratories, and the PALCAN Handbook (CAN-P-1570).

Accreditation to this ISO standard involves detailed, on-site audits to evaluate our quality management system and verify the technical competence of our methods and personnel. This technical verification includes the requirement for successful participation in inter-laboratory proficiency testing programs and full method validation.

ALS has taken the additional step to list all sample preparation laboratories in North America as part of the Scopes of Accreditation for our analytical laboratories. By doing this ALS acknowledges that sample preparation is performed at locations that are monitored regularly for quality control practices.

The scope of accreditation for **ALS Geochemistry Vancouver** includes the following methods:

- **Au-AA**: Determination of Au by Lead Collection Fire Assay and AAS
- **Au/Ag-GRA**: Determination of Au and Ag by Lead Collection Fire Assay and Gravimetric Finish
- **PGM-ICP**: Determination of Au, Pt and Pd by Lead Collection Fire Assay and ICP-AES
- **ME-ICP41**: Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sr, Ti, Tl, U, V, W, Zn) Determination by Aqua Regia Digestion and ICP-AES

- **ME-MS41**: Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by Aqua Regia Digestion and ICP-AES and ICP-MS
- **ME-ICP61**: Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, S, Sb, Sc, Se, Si, Sn, Sr, Ta, Te, Ti, Tl, U, V W, Y, Zn and Zr) Determination by 4-Acid Digestion and ICP-AES
- **ME-MS61**: Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Si, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by 4-Acid Digestion and ICP-AES and ICP-MS
- **ME-ICP81**: Al, Co, CU, Fe, Mg, Mn, Ni, Pb, S and Zn by Sodium Peroxide Fusion and ICP-AES
- **OG46**: Ag, Cu, Mo, Pb, and Zn - Determination of Ores and High Grade Material Using ICP-AES Following an Aqua Regia Digestion
- **OG62**: Ag, Cu, Mo, Pb and Zn - Determination of Ores and High Grade Material Using ICP-AES Following a Four-Acid Digestion
- **AA45**: Ag, Cu, Pb and Zn - Determination of Base Meals Using AAS Following an Aqua Regia Digestion
- **AA46**: Ag, Cu, Pb, Zn and Mo - Determination of Ores and High Grade materials Using AAS Following an Aqua Regia Digestion
- **AA61**: Ag, Co, Cu, Ni, Pb and Zn - Determination of Base Metals Using AAS Following a Four-Acid Digestion
- **AA62**: Ag, Co, CU, Mo, Ni, Pb and Zn - Determination of Ores and High Grade Materials Using AAS Following a Four-Acid Digestion
- **ME-ICP06**: SiO_2, Al_2O_3, Fe_2O_3, CaO, MgO, Na_2O, K_2O, Cr_2O_3, TiO_2, MnO, P_2O_5, SrO, BaO, Total - Determination of Major Oxides by Lithium Metaborate/Lithium Tetraborate Fusion and ICP-AES
- **OA-GRA05**: LOI - Loss on Ignition
- **ME-MS81**: Ba, Ce, Cr, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, La, Lu, Nb, Nd, Pr, Rb, Sm, Sn, Sr, Ta, Tb, Th, Tl, Tm, U, V, W, Y, Yb, Zr - Determination of Rare Earth Elements by Lithium Borate Fusion and ICP-MS
- **ME-ICP41a**: Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, Ga, Hf, Hg, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, S, Sb, Sc, Se, Si, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn) - Determination of Low Grade Ores by Aqua Regia Digestion and ICP-AES
- **ME-ICP61a**: Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, Ga, Hf, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr - Determination of Low Grade Ores by Four-Acid Digestion and ICP-AES
- **ME-XRF06**: SiO_2, Al_2O_3, Fe_2O_3, CaO, MgO, Na_2O, K_2O, Cr_2O_3, TiO_2, MnO, P_2O_5, SrO, BaO, Total - Determination of Major Oxides by Lithium Metaborate/Lithium Tetraborate Fusion and XRF
- **OA-GRA06**: LOI - Loss on Ignition
- **ME-XRF26**: SiO_2, Al_2O_3, Fe_2O_3, CaO, MgO, Na_2O, K_2O, Cr_2O_3, TiO_2, MnO, P_2O_5, SrO, BaO, Total - Determination of Major Oxides by Lithium Metaborate/Lithium Tetraborate Fusion and XRF
- **OA-GRA05x**: LOI - Loss on Ignition
- **S-IR08**: S - Determination of Total S by Leco Furnace and Infrared Spectroscopy
- **C-IR07**: C - Determination of Total C by Leco Furnace and Infrared Spectroscopy
- **OA-VOL08**: Fizz Rating, NP, MPA, NNP, Ratio (NP:MPA) - Acid Base Accounting

The scope of accreditation for **ALS Geochemistry Reno** includes the following methods:

- **Au-AA**: Determination of Au by Lead Collection Fire Assay and AAS
- **Au/Ag-GRA**: Determination of Au by Lead Collection Fire Assay and Gravimetric Finish

The scope of accreditation for **ALS Geochemistry Val d'Or** includes the following methods:

- **Au-AA**: Determination of Au by Lead Collection Fire Assay and AAS
- **Au-GRA**: Determination Au by Lead Collection Fire Assay and Gravimetric Finish

Aside from laboratory accreditation, ALS Geochemistry has been a leader in participating in, and sponsoring, the assayer certification program in British Columbia. Many of our analysts have completed this demanding program that includes extensive theoretical and practical examinations. Upon successful completion of these examinations, they are awarded the title of Registered Assayer.

Quality Assurance Program

The quality assurance program is an integral part of all day-to-day activities at ALS Geochemistry and involves all levels of staff. Responsibilities are formally assigned for all aspects of the quality assurance program.

As part of the program, checks are made to monitor quality at both sample preparation and analytical stages.

Quality Assurance Program	Overview
Sample Preparation Quality Control	*Quality Specifications* Fineness of crushing and pulverizing checked and monitored according to method specifications. *Sample Preparation Duplicates* Inserted every 50 samples. Split taken from coarse crushed material.
Analytical Quality Control	Blanks, reference materials and pulp duplicates are inserted into every analytical run. Frequency details can be found on page 6.

Sample Preparation Quality Specifications

Standard specifications for sample preparation are clearly defined and monitored. The specifications for our most common methods are as follows:

- Crushing (CRU-31)
    - > 70% of the crushed sample passes through a 2 mm screen
- Ringing (PUL-31)

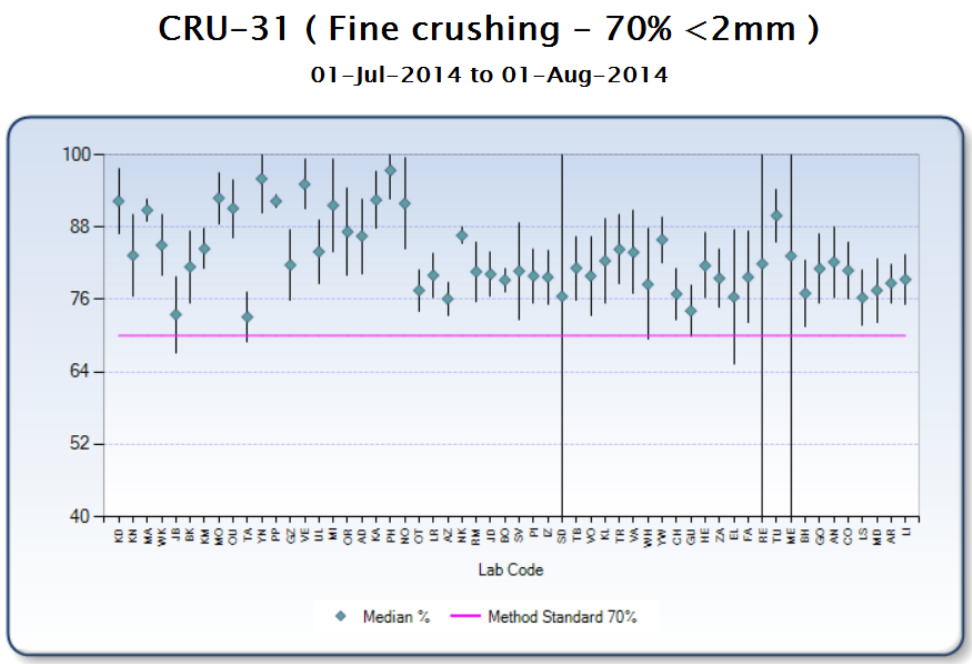
> 85% of the ring pulverized sample passes through a 75 micron screen (Tyler 200 mesh)

- Samples Received as Pulps

  >85% of the sample passes through a 75 micron screen (Tyler 200 mesh)

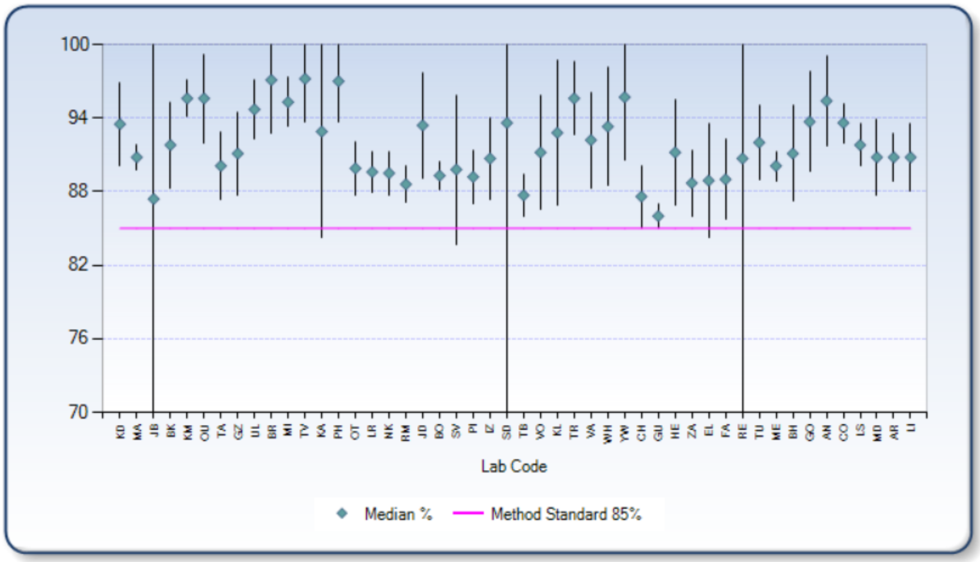
These characteristics are measured and results reported to verify the quality of sample preparation. Our standard operating procedures require that samples at every preparation station are tested regularly throughout each shift. Measurement of sample preparation quality allows the identification of equipment, operators and processes that are not operating within specifications.

QC results from all global sample preparation laboratories are captured by the LIM System and the QA Department compiles a monthly review report for senior management on the performance of each laboratory from this data.



PUL-31 (Pulverize split to 85% <75 um)

01-Jul-2014 to 01-Aug-2014



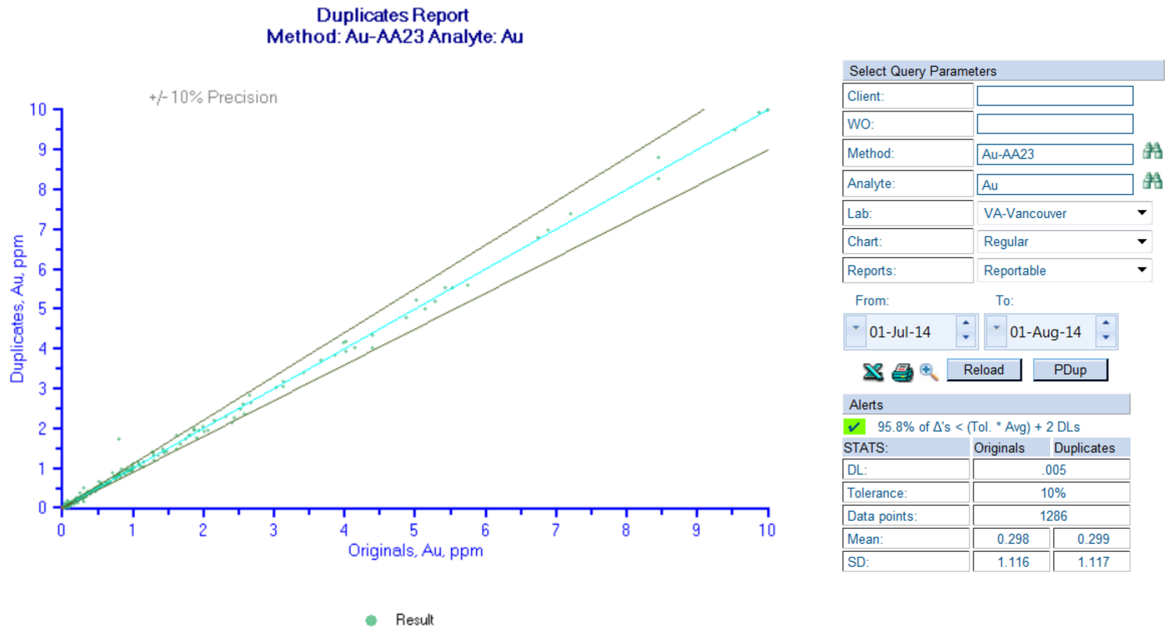
Other Sample Preparation Specifications

Sample preparation is a vital part of any analysis protocol. Many projects require sample preparation to other specifications, for instance >90% of the crushed sample to pass through a 2 mm screen. These procedures can easily be accommodated and the Prep QC monitoring system is essential in ensuring the required specifications are routinely met.

Sample Preparation Duplicates

In addition to routine screen tests, sample preparation quality is monitored at ALS Geochemistry through the insertion of sample preparation duplicates. For every 50 samples prepared, an additional split is taken from the coarse crushed material to create a pulverizing duplicate. The additional split is processed and analyzed in a similar manner to the other samples in the submission. The precision of the preparation duplicate results is highly dependent on the individual sample mineralogy, analytes of interest and procedures selected for sample preparation. Therefore the data is most relevant at the client /project level.

All preparation duplicate data is automatically captured, sorted and retained in the QC Database and available on Webtrieve™ for client review. The data is also available on the QC Data Certificates.


Duplicates Report
Method: Au-AA23 Analyte: Au
+/- 10% Precision
Duplicates, Au, ppm
Originals, Au, ppm
Result
Select Query Parameters
Client:
WO:
Method: Au-AA23
Analyte: Au
Lab: VA-Vancouver
Chart: Regular
Reports: Reportable
From: 01-Jul-14
To: 01-Aug-14
Reload
PDup
Alerts
95.8% of Δ's < (Tol. * Avg) + 2 DLs
STATS: Originals Duplicates
DL: .005
Tolerance: 10%
Data points: 1286
Mean: 0.298 0.299
SD: 1.116 1.117

Analytical Quality Control – Reference Materials, Blanks & Duplicates

The LIMS inserts quality control samples (reference materials, blanks and duplicates) on each analytical run, based on the rack sizes associated with the method. The rack size is the number of sample including QC samples included in a batch. The blank is inserted at the beginning, standards are inserted at random intervals, and duplicates are analysed at the end of the batch. Quality control samples are inserted based on the following rack sizes specific to the method:

Rack Size	Methods	Quality Control Sample Allocation
20	Specialty methods including specific gravity, bulk density, and acid insolubility	2 standards, 1 duplicate, 1 blank
28	Specialty fire assay, assay-grade, umpire and concentrate methods	1 standard, 1 duplicate, 1 blank
39	XRF methods	2 standards, 1 duplicate, 1 blank
40	Regular AAS, ICP-AES and ICP-MS methods	2 standards, 1 duplicate, 1 blank
84	Regular fire assay methods	2 standards, 3 duplicates, 1 blank

Laboratory staff analyse quality control samples at least at the frequency specified above. If necessary, they may include additional quality control samples above the minimum specifications.

All data gathered for quality control samples – blanks, duplicates and reference materials – are automatically captured, sorted and retained in the QC Database.

Quality Control Limits and Evaluation

Quality Control Limits for reference materials and duplicate analyses are established according to the precision and accuracy requirements of the particular method. Data outside control limits are identified and investigated and require corrective actions to be taken. Quality control data is scrutinised at a number of levels. Each analyst is responsible for ensuring the data submitted is within control specifications. In addition, there are a number of other checks.

Certificate Approval

If any data for reference materials, duplicates, or blanks falls beyond the control limits established, it is automatically flagged red by the computer system for serious failures, and yellow for borderline results. The Department Manager(s) conducting the final review of the Certificate is thus made aware that a problem may exist with the data set.

Precision Specifications and Definitions

Most geochemical procedures are specified to have a precision of ± 10%, and assay procedures ± 5%. The precision of Au analyses is dominated by the sampling precision.

Precision can be expressed as a function of concentration:

$$P_c = \left(\frac{DetectionLimit}{c} + P\right) \times 100\%$$

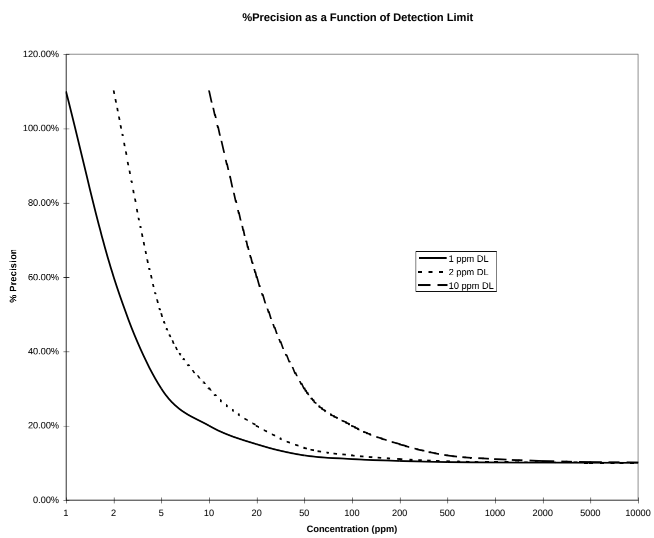
where P_c – the precision at concentration c

c – concentration of the element

P – the "Precision Factor" of the element. This is the precision of the method at very high concentrations, i.e. 0.05 for 5%.

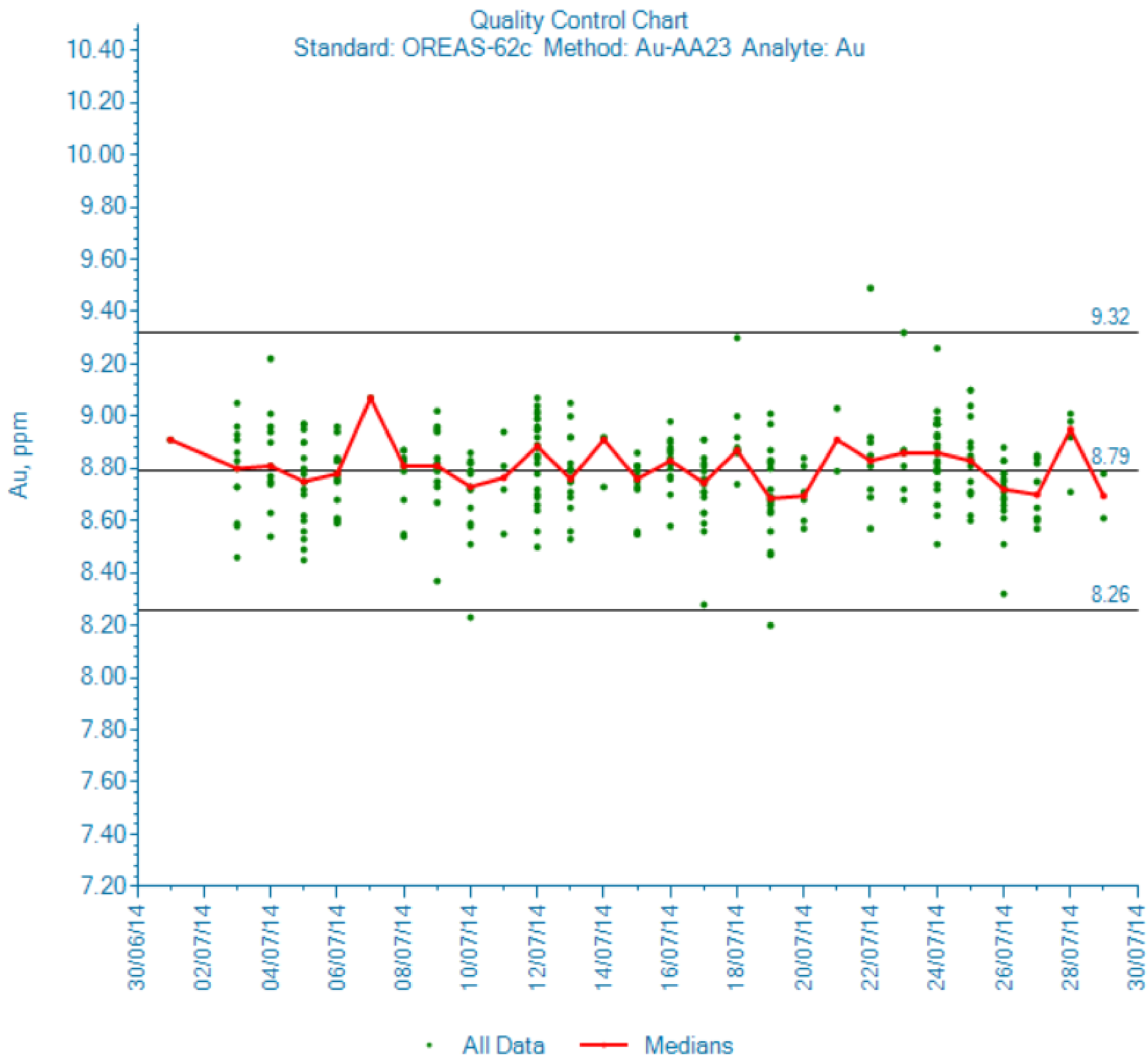
(M. Thompson, 1988. Variation of precision with concentration in an analytical system. Analyst, 113: 1579-1587.)

As an example, precision as a function of concentration (10% precision) is plotted for three different detection limits. The impact of detection limit on precision of results for low-level determinations can be dramatic.



Evaluation of Trends

Control charts for frequently used method codes are generated and evaluated by laboratory staff on a regular basis. The control charts are evaluated to ensure internal specifications for precision and accuracy are met. The data is also reviewed for any long-term trends and drifts.



External Proficiency Tests

Proficiency testing provides an independent assessment of laboratory performance by an outside agency. Test materials are regularly distributed to the participants and results are processed by a central agency. The results are usually converted to a Z-Score to rate the laboratory's result against the consensus value from all participating labs.

All ALS Geochemistry analytical facilities in North America participate in proficiency tests for the analytical procedures routinely done at each laboratory. ALS Geochemistry has participated for many years in proficiency tests organized by organizations such as Canadian Certified Reference Materials Projects, and Geostats as well as a number of independent studies organized by consultants for specific clients. We have participated also participated in several certification studies for new certified reference materials by CANMET and Rocklabs.

Feedback from these studies is invaluable in ensuring our continuing accuracy and validation of methods.

Quality Assurance Meetings

A review of quality assurance issues is held regularly at Technical and Quality Assurance Meetings. The meetings cover such topics as:

- Results of internal round robin exchanges, external proficiency tests and performance evaluation samples
- Monitoring of control charts for reference materials
- Review of quality system failures
- Incidents raised by clients
- Results of internal quality audits
- Other quality assurance issues

The Quality Assurance Department and senior laboratory management participate in these meetings.

ME- MS41
Ultra- Trace Level Methods Using ICP- MS and ICP- AES

Sample Decomposition:

Aqua Regia Digestion (GEO-AR01)

Analytical Method:

Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

A prepared sample (0.50 g) is digested with aqua regia in a graphite heating block. After cooling, the resulting solution is diluted to with deionized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. Following this analysis, the results are reviewed for high concentrations of bismuth, mercury, molybdenum, silver and tungsten and diluted accordingly. Samples are then analysed by ICP-MS for the remaining suite of elements. The analytical results are corrected for inter-element spectral interferences.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.01	100
Aluminum	Al	%	0.01	25
Arsenic	As	ppm	0.1	10 000
Gold	Au	ppm	0.2	25
Boron	B	ppm	10	10 000
Barium	Ba	ppm	10	10 000
Beryllium	Be	ppm	0.05	1 000
Bismuth	Bi	ppm	0.01	10 000
Calcium	Ca	%	0.01	25
Cadmium	Cd	ppm	0.01	1 000
Cerium	Ce	ppm	0.02	500
Cobalt	Co	ppm	0.1	10 000
Chromium	Cr	ppm	1	10 000

Element	Symbol	Units	Lower Limit	Upper Limit
Cesium	Cs	ppm	0.05	500
Copper	Cu	ppm	0.2	10 000
Iron	Fe	%	0.01	50
Gallium	Ga	ppm	0.05	10 000
Germanium	Ge	ppm	0.05	500
Hafnium	Hf	ppm	0.02	500
Mercury	Hg	ppm	0.01	10 000
Indium	In	ppm	0.005	500
Potassium	K	%	0.01	10
Lanthanum	La	ppm	0.2	10 000
Lithium	Li	ppm	0.1	10 000
Magnesium	Mg	%	0.01	25
Manganese	Mn	ppm	5	50 000
Molybdenum	Mo	ppm	0.05	10 000
Sodium	Na	%	0.01	10
Niobium	Nb	ppm	0.05	500
Nickel	Ni	ppm	0.2	10 000
Phosphorus	P	ppm	10	10 000
Lead	Pb	ppm	0.2	10 000
Rubidium	Rb	ppm	0.1	10 000
Rhenium	Re	ppm	0.001	50
Sulphur	S	%	0.01	10
Antimony	Sb	ppm	0.05	10 000
Scandium	Sc	ppm	0.1	10 000
Selenium	Se	ppm	0.2	1 000
Tin	Sn	ppm	0.2	500
Strontium	Sr	ppm	0.2	10 000

Element	Symbol	Units	Lower Limit	Upper Limit
Tantalum	Ta	ppm	0.01	500
Tellurium	Te	ppm	0.01	500
Thorium	Th	ppm	0.2	10000
Titanium	Ti	%	0.005	10
Thallium	Tl	ppm	0.02	10 000
Uranium	U	ppm	0.05	10 000
Vanadium	V	ppm	1	10 000
Tungsten	W	ppm	0.05	10 000
Yttrium	Y	ppm	0.05	500
Zinc	Zn	ppm	2	10 000
Zirconium	Zr	ppm	0.5	500

NOTE: In the majority of geological matrices, data reported from an aqua regia leach should be considered as representing only the leachable portion of the particular analyte.

ME-XRF26 – Silicate / Whole Rock by Fusion / XRF

Sample Decomposition:

Lithium Borate Fusion (WEI-GRA12b)

Analytical Method:

X-Ray Fluorescence Spectroscopy (XRF)

A prepared sample (0.66 g) is fused with a 12:22 lithium tetraborate – lithium metaborate flux which also includes an oxidizing agent (Lithium Nitrate), and then poured into a platinum mold. The resultant disk is in turn analyzed by XRF spectrometry.

The XRF analysis is determined in conjunction with a loss-on-ignition at 1000°C. The resulting data from both determinations are combined to produce a "total".

Analyte	Symbol	Units	Lower Limit	Upper Limit
Aluminum	Al_2O_3	%	0.01	100
Barium	BaO	%	0.01	66
Calcium	CaO	%	0.01	60
Chromium	Cr_2O_3	%	0.01	10
Iron	Fe_2O_3	%	0.01	100
Potassium	K_2O	%	0.01	15
Magnesium	MgO	%	0.01	50
Manganese	MnO	%	0.01	39
Sodium	Na_2O	%	0.01	10
Phosphorus	P_2O_5	%	0.01	46
Sulphur	SO_3	%	0.01	34
Silicon	SiO_2	%	0.01	100
Titanium	TiO_2	%	0.01	30

PREP-31
Standard Sample Preparation: Dry, Crush, Split and Pulverize

Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

The sample is logged in the tracking system, weighed, dried and finely crushed to better than 70 % passing a 2 mm (Tyler 9 mesh, US Std. No.10) screen. A split of up to 250 g is taken and pulverized to better than 85 % passing a 75 micron (Tyler 200 mesh, US Std. No. 200) screen. This method is appropriate for rock chip or drill samples.

Method Code	Description
LOG-22	Sample is logged in tracking system and a bar code label is attached.
CRU-31	Fine crushing of rock chip and drill samples to better than 70 % of the sample passing 2 mm.
SPL-21	Split sample using riffle splitter.
PUL-31	A sample split of up to 250 g is pulverized to better than 85 % of the sample passing 75 microns.

Flow Chart -

Sample Preparation Package – PREP-31
Standard Sample Preparation: Dry, Crush, Split and Pulverize