

# Assessment Report

**2013 GEOCHEMICAL SAMPLING ASSESSMENT REPORT  
FOR THE HUNTER & POOLEY AREA, CASSIAR GOLD PROPERTY, LIARD MINING DISTRICT,  
NORTHERN BRITISH COLUMBIA.**

**Tenure:**

511371, 511380, 511387, 511394, 514088, 567733, 567756  
564713, 575976, 575978, 575979, 575980, 575982, 575983,  
575985, 575987, 575996, 575998, 575999, 576000, 576001,  
576004, 576024, 576026, 576028, 576031, 571356, 590125

**Location:** NTS Map Sheet 104P

**BCGS Map Sheets:** 104P03 & 104P04

**Coordinates:** Latitude 59° 10' N North &  
Longitude 129° 35' W  
North 6558358 meters &  
East 467166 meters  
UTM Zone 09 NAD 83

**Prepared For:** China Minerals Mining Corp.  
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**Dates of Work:** August 1, 2013 – March 20, 2014

**Claim Owner:** Cassiar Gold Corporation (a subsidiary)

**Operators:** China Minerals Mining Corp.

**Prepared by:** Michael Guo, Chief Geologist

**Date:** December 29, 2013

**Addendum ( L. Grexton):** March 20, 2014

**BC Geological Survey  
Assessment Report  
34716**

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## Introduction

This report represents the results of a geochemical exploration program carried out at Hunter and Pooley area of Cassiar gold project in Northern British Columbia between Aug. 15, 2013 to Sept. 13, 2013. This project was supervised by Michael Guo, Chief Geologist of China Minerals Mining Corp.

The expenditure for this project is \$169,204.47 and is applied for the credits of applicable exploration expense.

The purpose of the exploration work is to further explore the gold and other base metal mineralization potential in Hunter and Pooley area which is thought as relatively underexplored.

## Location, Access, Infrastructure

Cassiar Gold Project is located in the Northern British Columbia (Figure 1) and is about 141 km southwest of Watson Lake, Yukon Territory. The Hunter and Pooley area lies at the southern part of the Cassiar Gold property (Figure2).

Camp location for the Cassiar project is in the local town of Jade City. Access to the Cassiar Gold Project is either by highway 37 or by chartered plane using Cassiar airstrip which is located about 15 kilometers northwest of Jade City. There are commercial flights between Dease lake and Prince George and/or Smithers run by NT Air.

At the mine site, there are hauling roads and trails can be accessed by ATV's and all wheel-drive vehicles, some remote areas require helicopter to support the field work.

The Hunter & Pooley area lies within the Liard Mining Division, on NTS map sheet 104P03 and 104P04, centre of the area is at Latitude  $59^{\circ} 10' N$  North & Longitude  $129^{\circ} 35' W$  or North 6558358 meters & East 467166 meters, UTM Zone 09 NAD 83.

The terrain on the property is typical in northern British Columbia. The valley floor elevation in Pooley area is as lower as 800-1000 meters, valley slopes in Hunter may rise steeply to 2000 meters.

The average tree line in the area is about 1400 meter in elevation. Typical plants in the area are Jack pine, Lodge pole pine, black spruce and Poplar, alpine meadows and buck brush. At shallow valley bottom and swampy areas mixed spruce and poplar growths cover the area.

The weather in the area is characterized by short and warm summer and long cold winter. Snow falls generally between Octobers to Mays with an average 227 centimeter of accumulations. Daily mean temperature at Jade City range from -20 degrees in January to 15 degrees in July.

The Cassiar Gold Property is located in a district with a long mining history of gold and asbestos, however, since the Cassiar asbestos mine closed in 1992, only a few residents remain.

General supplies and services are available in Dease Lake and Watson Lake, 117 km to the south and 141 km to the north, respectively. Charter air service is also available in both Dease Lake and Watson Lake. The Cassiar

airstrip is available for small charter aircraft. The nearest major centers are Whitehorse, Yukon, approximately 560 km to the west, and Smithers, B.C., almost 720 km south.



Figure 1 Cassiar Gold Project Location

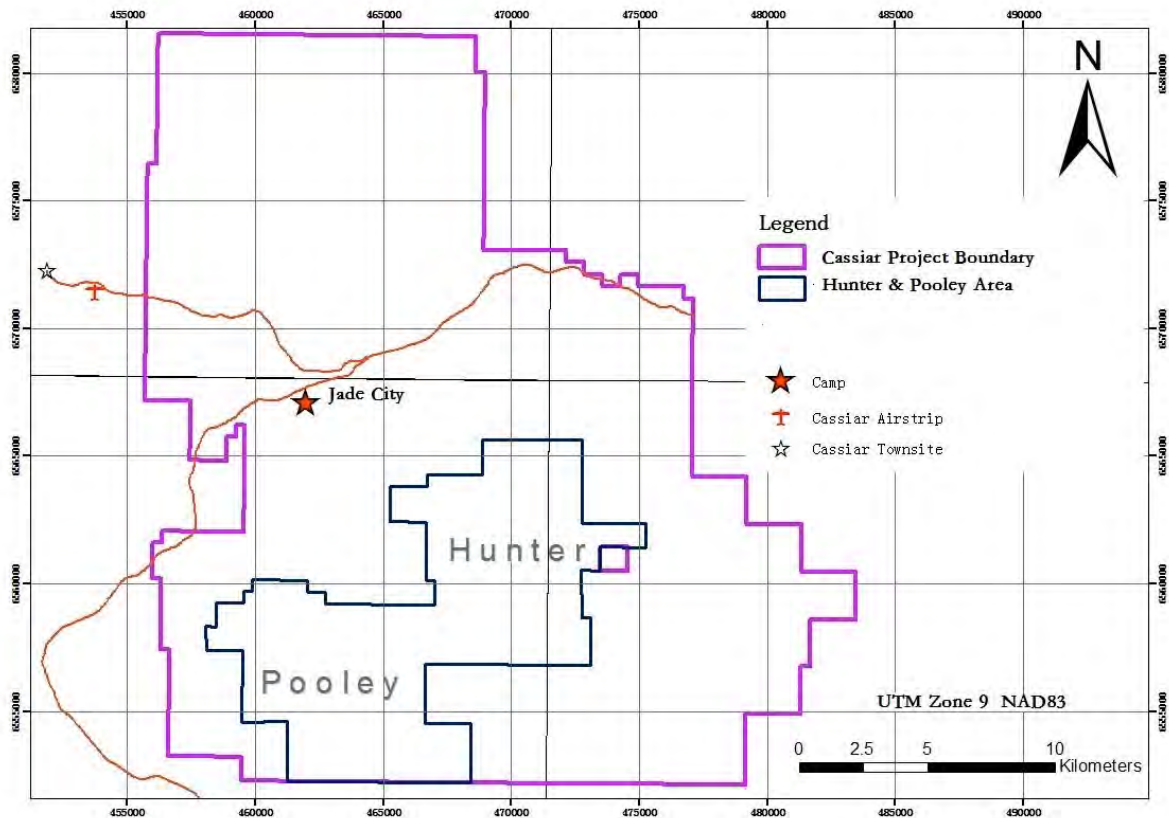


Figure 2 Hunter and Pooley area Location

Currently power for the region is provided by diesel generators. There is a plan to extend B.C. Hydro grid north to Jade City, but there is still an uncertainty. There are numerous creeks in the property area that have sufficient year-round flow for any exploration or mining operation. The property itself affords space for the development of tailings storage areas, waste disposal sites, heap leach pads, if required, and expanded processing facilities.

## Properties

The Cassiar Gold property has a total 219 claims with a total area of 569 Km<sup>2</sup>. Hunter and Pooley area is located at the southern part of the property with 28 claims. The total area of the Hunter & Pooley area is 110 Km<sup>2</sup> and composes about 20% of the whole Cassiar claim area (Figure 2, Figure 3).

The claim tenures are registered under the name of Cassiar Gold Corp. which is a 100% subsidiary of China Minerals Corp. The tenure numbers, names, expiry dates, areas, and tag numbers that comprise the Hunter and Pooley property are all currently in good standing (Table 1).

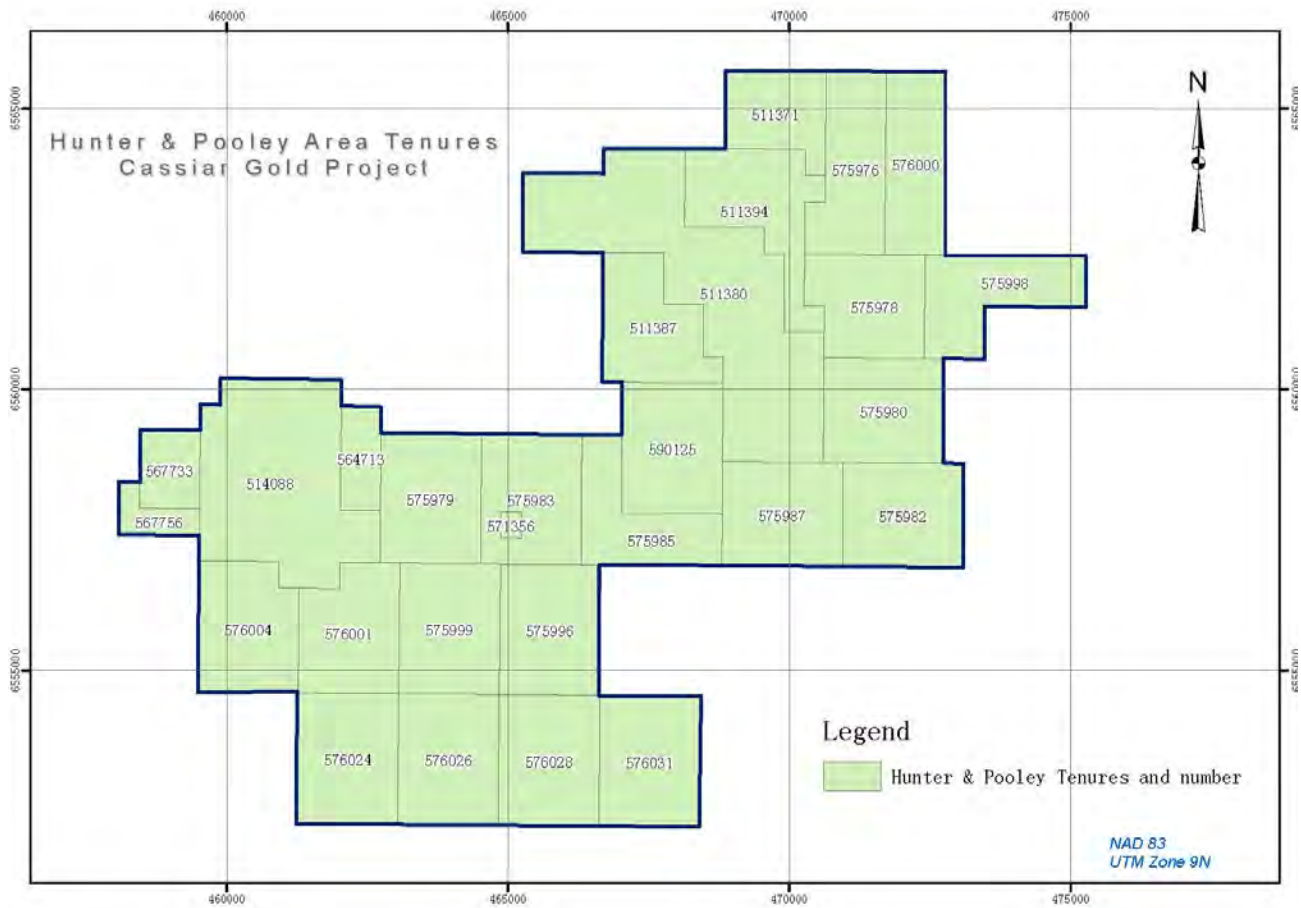


Figure 3 Tenure map of Hunter and Pooley area

Table 1 Hunter & Pooley Tenure List

Tenure Number	Claim Name	Good to	Area (Ha)	Owner	Map sheet
511371		2019/3/31	265.06	CASSIAR GOLD CORP.	104P04
511380		2019/3/31	1226.94	CASSIAR GOLD CORP.	104P04
511387	TRACKER 1-20	2019/3/31	364.83	CASSIAR GOLD CORP.	104P04
511394	EASTER 1-25	2019/3/31	414.34	CASSIAR GOLD CORP.	104P04
514088		2019/3/31	912.74	CASSIAR GOLD CORP.	104P04
567733		2019/3/31	149.35	CASSIAR GOLD CORP.	104P04
567756	NOME	2019/3/31	82.99	CASSIAR GOLD CORP.	104P04
564713		2019/3/31	132.75	CASSIAR GOLD CORP.	104P04
575976	S1	2019/3/31	381.11	CASSIAR GOLD CORP.	104P03/104P04
575978	S2	2019/3/31	364.77	CASSIAR GOLD CORP.	104P03/104P04
575979	P1	2019/3/31	414.91	CASSIAR GOLD CORP.	104P04

Tenure Number	Claim Name	Good to	Area (Ha)	Owner	Map sheet
575980	S3	2019/3/31	398.13	CASSIAR GOLD CORP.	104P03/104P04
575982	S4	2019/3/31	398.31	CASSIAR GOLD CORP.	104P03/104P04
575983	P2	2019/3/31	398.31	CASSIAR GOLD CORP.	104P04
575985	P3	2019/3/31	331.95	CASSIAR GOLD CORP.	104P04
575987	P4	2019/3/31	398.33	CASSIAR GOLD CORP.	104P04
575996	P8	2019/3/31	415.16	CASSIAR GOLD CORP.	104P04
575998	S11	2019/3/31	364.75	CASSIAR GOLD CORP.	104P03
575999	P8	2019/3/31	415.16	CASSIAR GOLD CORP.	104P04
576000	S12	2019/3/31	347.95	CASSIAR GOLD CORP.	104P03
576001	P9	2019/3/31	381.95	CASSIAR GOLD CORP.	104P04
576004	P10	2019/3/31	398.56	CASSIAR GOLD CORP.	104P04
576024	P15	2019/3/31	415.41	CASSIAR GOLD CORP.	104P04
576026	P16	2019/3/31	415.41	CASSIAR GOLD CORP.	104P04
576028	P18	2019/3/31	415.41	CASSIAR GOLD CORP.	104P04
576031	P19	2019/3/31	415.40	CASSIAR GOLD CORP.	104P04
571356	NOME	2019/3/31	16.60	CASSIAR GOLD CORP.	104P04
590125	HUNTER SW	2019/3/31	414.81	CASSIAR GOLD CORP.	104P04

## Exploration History

The following contents are summarized from historic exploration reports, some are extracted from Glover et al(2004), Cavey et al (2005) and Stubens et al (2009).

Gold was discovered in the Cassiar District in 1874. The district developed into one of British Columbia's major placer camps with most of its production occurring between 1874 and 1895. The largest nugget discovered in British Columbia, 73 oz (2,503 gm), came from this camp (Barlee 1980). Minor small-scale placer mining continues today.

Although placer production in the district was significant, little was done prior to 1933 to locate lode gold deposits. In 1934, the first gold-bearing quartz veins were found in Quartzrock Creek. Following this, numerous veins were discovered and many claims were staked. The higher-grade portions of these veins were exploited by small-scale mining over the next forty years. At one point, half-a-dozen abandoned mill sites with capacities of less than 12 tons per day existed in the area. Well-known individuals that played an important role in the early years of the emerging gold camp include John Vollaug, Hans Erickson, J.R. Boulton, John Hope, F. Callison, Pete



Hamlin, and Fred and Guilford Brett. Cusac's interest in the area began with the prospecting efforts of Fred and Guilford Brett who formed Glen Copper Mines Ltd., which evolved into Cusac Industries Ltd., and in 1995, Cusac Gold Mines Ltd.

The first larger operation started in 1978 when the Agnes and Jennie Mining Company Limited and Nu-Energy Development Corp., which later amalgamated to become Erickson Gold Mining Corporation, commenced production from the Jennie Vein in the Main Mine. In 1979 and 1980, Cusac conducted work in the area of the Cusac Mine. During 1980, Plaza Mining Corporation commenced open pit production from the eastern portion of the Vollaug Vein. Between 1978 and 1984, development of the Main Mine, also known as the Erickson Mine, was expanded to include workings on four main levels to exploit the Jennie, Maura, Alison, and Bear Veins. Esso Resources Canada Limited conducted exploration around the Main Mine in the early 1980's.

Exploration around Quartzrock Creek by United Heame Resources Limited in the late 1970's lead to commencement of production at the Taurus Mine in 1981, which continued until 1988. At the same time, Sable Resources Ltd. and Plaza Resources Ltd. Developed underground workings on the east side of 88 Hill.

Cusac discovered several veins at Pooley Creek in 1982, and conducted minor work on them. In 1983, Erickson commenced production from the Troutline Mine at the eastern end of the Vollaug Vein and from various open pits along it. In the following year, Cusac optioned its property to Erickson, which had acquired Plaza in the previous year and continued to expand its property holdings.

In 1985, Total Compagnie Francaise des Petroles acquired operating control of Erickson, renamed the company Total Energold Corporation, commenced production from the Eileen Vein in the Cusac Mine in 1986, and discovered additional veins in the area. During 1988, Total started work on the 10 level, a 2.5 km drift to access the Michelle High Grade Vein (MHG), which could not be accessed from the Cusac Mine because of high water flows. Because of this, production from the Cusac Mine and Main Mine ceased, with only minor production continuing on the Vollaug Vein. Work on level 10 eventually ceased in 1989 due to high costs and high water flows.

Total elected to divest itself of all North American mineral assets in 1991. Cusac purchased these assets, free and clear of any royalties to Total, re-opened the Cusac Mine, and in 1993, commenced production on the Bain Vein (Bain Mine). During the development of the Cusac decline to the MHG Vein, the Big vein was defined and mined. Mining of the MHG commenced in June 1995, and continued through 1997.

The Katherine vein was open pit mined during 1995, and in early 1996, the 10 level development was extended by 250m. Additional mining was conducted on the Vollaug, Melissa, and Lily Veins during 1996 and 1997, and surface mining was done on the Bear Vein during 1998.

In 1995, Cyprus Canada Inc. (Cyprus) entered into agreements with International Taurus Resources Inc. (Taurus) and Cusac on the Taurus project north of the current property area, which resulted in the definition of an inferred open pitable resource. In 1996, Cyprus withdrew from the project, and Cusac entered into an agreement with Taurus, which conducted additional work that defined an indicated resource. In 1998, Cusac optioned the claims and consolidated the entire Cassiar Gold Camp under one operator. Cusac completed reclamation of the Taurus mine site, but no further work was conducted, and the agreement was subsequently terminated.

Diamond drilling was conducted on the East Bain Vein during 2002, which confirmed the existence of a gap with the West Bain Vein, but failed to extend the structure to the east.

In 2004. Discovery of the Rory vein while delineating the down dip extension of the Maura vein 400 meters down dip. The discovery hole was cut short and 36 more holes were then drilled into the Rory to define geometry. A total of 37 NQ drill holes (5522.7 meters) into the Rory Vein, 4 NQ drill holes (955.3 meters) into the Hot Vein, all totaling 41 diamond drill holes at 6478 meters combined. A probable reserve of 16000 tons grading 0.46 ounces per ton, containing 7360 ounces of gold was established for the Rory.

Exploration commenced on Taurus II in 2005, the area between Table Mountain and Taurus. Six drill holes (1140.1 meters) into Backyard, eleven holes (2137.7meters) into Somerville, and one hole (181.4 meters) into Porcupine East. Soil geochemistry was collected on eight 150 meter lines at 50 meter spacing, 12.5 meter stations, with 90 samples taken in total. 2006. Continued exploration on Taurus II. A soil geochemical survey was completed over 8.5 square kilometers. 20 gold anomalous areas and an additional 30 spot highs were identified. A Lidar survey was flown over 139 square kilometers of the property. An ortho-photo mosaic was developed for a 34 square kilometer portion of the survey area. Eight (8) excavator trenches with a combined length of 530 meters (0.2 hectares) were completed. A total of twenty-one (21) NQ diamond drill holes with a combined depth of 3,280 meters were drilled in the Taurus II Project Area. Twelve holes (1885.5 meters) were drilled to test the western extension of the ORO structure exposed in the Trench 3 Area under the Van Argillite Cap. Five holes (586.1 meters) were drilled to test the Blue Zone exposed in the Trench 5 area. An additional four holes (808.8 meters) were drilled to test isolated targets in the Reo, TR-6E, and Hwy areas.

In 2007. Cusac drilled Taurus at the 88-Hill Zone. The intent was to increase the confidence level of the inferred resource and to increase the geological understanding of gold distribution throughout the area. 6 drill holes, totaling 953.12 meters of HQ core was drilled at 25 meter spacing on the Mac #3 and Hopeful #2 claims.

On November 9, 2007, Hawthorne Gold Corporation and Cusac Gold Mines Ltd. ("Cusac") entered into a merger agreement whereby the two companies would continue to operate under the corporate entity of Hawthorne Gold Corporation ("Hawthorne"). Hawthorne became the owner and operator of Cusac's Table Mountain and Taurus properties that total 15,629 hectares (38,620 acres) of mineral claims.

Through the merger, Hawthorne acquired an additional 915 hectares (2,261 acres) of mineral claims contiguous with the Taurus Property through option agreement with American Bonanza Gold Corporation. The entirety of this land package became known as the Cassiar Gold property. The merger was completed on April 15, 2008.

Hawthorne Gold conducted a regional airborne geophysical survey (MAG and VLF-EM) in 2008. A regional program was conducted including soil sampling (606 samples), rock sampling (391 samples), reconnaissance mapping as well as core salvaging/preservation. Additionally, 15 holes were completed for a total of 2,536.54 meters of HQ core drilled to further define the East Bain Resource.

In 2009, Hawthorne Gold conducted geochemical sampling, trenching and diamond drilling in Table Mountain and surrounding area. The work includes 1562 soil samples collected from 3 separate grids, 195.5 m trenching from three individual trenches and 41 diamond drill holes totaling 7258.82 meters of NTW and 279.50 meters of BTW diamond drill core in Table mountain.

An updated resources of Taurus deposit was conducted by Stubens et al of Wardrop in 2009. At a cutoff grade of 0.50 Au (g/t), there is an Inferred Mineral Resource of 33.06 million tonnes (Mt) at an average Au grade of 0.99 g/t, which equates to a metal content of 1,055,500 troy ounces of gold.

In 2010, C. Pearson, et al prepared a 43-101 report for Table Mountain. StubensThe indicated resources are 21,471 tone ore at the grade of 18.02g/t and inferred resources are 65,757 tone ores at grade of 16.24 g/t.

On April 5, 2011 Hawthorne Gold officially changed the name to China Minerals. In 2012, China Minerals completed a drilling program comprising 6,892 m in 43 holes at the Taurus property d. The focus of the program was on following known high-grade intersections in order to increase the tonnage of mineralized rock grading over 2.0 g/t Au and to step out from known mineralized zones into areas of low density drilling outside the current resource block model.

## Geology Setting

The Cassiar Gold Camp is situated in the Sylvester Allochthon of the Slide Mountain Terrane, emplaced between the Late Triassic and Mid-Cretaceous onto autochthonous rocks of the Cassiar Terrane. The internal structure of the Sylvester Allochthon is characterized by many interleaved tectonic slices, bounded by subhorizontal, layer-parallel faults induced by Jurassic compressional tectonics.

Thrusting along easterly-directed thrusts occurred over regional-scale folding, resulting in the creation of three stacked, structural-lithological packages. The lowermost thrust sheet of the package is composed of sub-greenschist facies meta-andesites and cherts. The middle thrust sheet is composed of graphitic argillite with minor interbedded siltstones and sandstones. The uppermost thrust sheet consists of pyroxene porphyritic altered volcanic rocks with minor intercalated metasediments. These rocks range in age from Late Devonian to Late Triassic.

Cretaceous and Tertiary lamprophyre and diabase dikes intrude locally. The Sylvester Allochthon occupies the flat-bottomed McDame synclinorium. The synclinal geometry resulted from the formation of anticlinal stacks on either side during compression. Emplacement of the Cassiar batholith uplifted the pile, contributing to the consistent northeastward dip along its western margin.

Gold mineralization occurs in quartz vein systems within the lowermost thrust sheet proximal to the Table Mountain thrust. Auriferous poly-phase quartz veining is present where impermeable structural discontinuity is believed to have localized hydrothermal fluid flow. Ore grade veins are concentrated along north-south trending zones of faulting, where hydrothermal centres are expressed by clusters of alteration zones, veins, and faults. Dating of sericite, associated with auriferous quartz veining, indicates an Early Cretaceous age. This postdates emplacement of the Sylvester Allochthon and pre-dates the Middle to Late Cretaceous emplacement of the Cassiar Batholith.

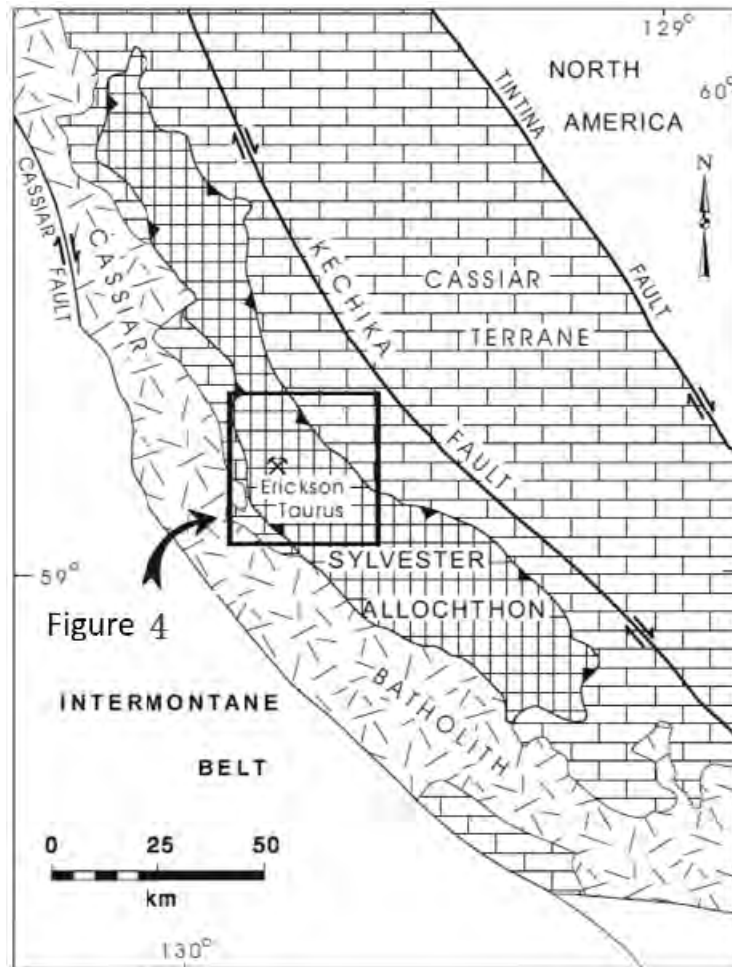


Figure 4 Location and tectonic setting of the Cassiar Gold property.

From BCGS Bulletin 108: Ophiolite Related Gold Quartz Veins in the North American Cordillera, Northern Slide Mountain Terrane Cassiar Gold Camp, Chapter 7, page 73-79.

It is believed that hydrothermal fluid flow may be attributed to hidden intrusives, and that fluid flow has been localized by early transcurrent faults and associated transtensional zones. In contrast, it is debated that the Cassiar Gold Camp exhibits similarities to Archean Lode Gold districts, where mesothermal processes are the driving factors to gold mineralization.

The Table Mountain and Taurus project areas are two current productive centers in the Cassiar Gold Camp. Both lie along a major north- northwest trending, right lateral fault system, known as the Erickson Creek Fault Zone (ECFZ). Discontinuous thrust slices of ultramafic rocks containing listwanite (generally interpreted to be metasomatized serpentinites) is believed to play a key role in quartz vein formation and gold deposition at Table Mountain. Historically, the richest gold veins were found in basalt immediately below a barren argillite cap that crops out extensively in the southern portion of the camp (Table Mountain) and locally forms thin klippen to the north (Taurus).

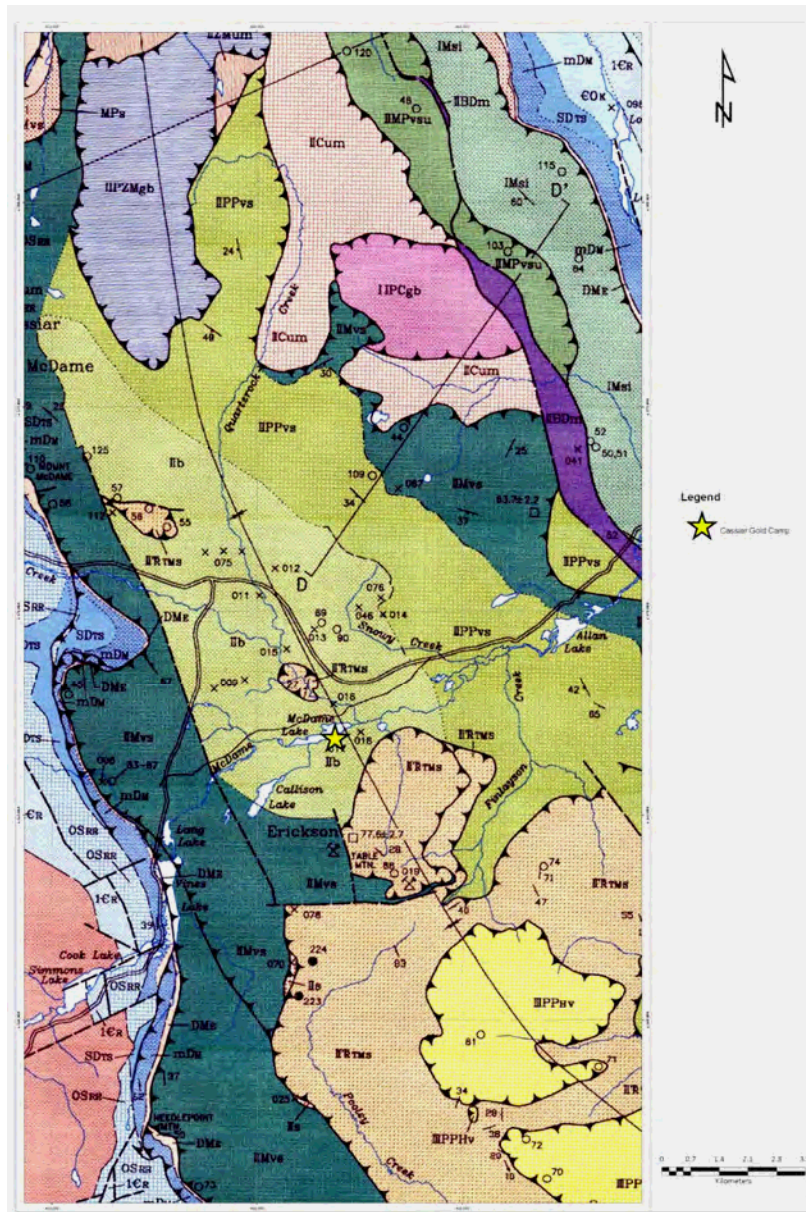


Figure 5 Regional Geology.

J.L. Nelson and J.A. Bradford, 1993. BCGS Bulletin 83: Geology of the Midway - Cassiar Area, Northern British Columbia.

Legend: Kgr Cretaceous Granite; IIs Unknown Age Serpentinite; IIPPHV Pennsylvanian to Permian Hunter Volcanics; IITRTMS Triassic Table Mountain Sediments; Ilb Unknown Age Massive and pillowed basalt flows, lesser tuff; IIPPVS Pennsylvanian to Permian Basalt flows and tuffs; and IIMVS Mississippian Basalt, diabase, chert, argillite, calcarenite, sandstone and conglomerate.

Veins average 1-2 meters in width with high grade veins averaging approximately 0.50 ounces per ton. The East Bain deposit is a current example of these small high grade vein systems. It contains a NI43-101 compliant indicated resource of 13,708 ounces of gold (22,157 tons at 0.62 ounce per ton gold). The Cassiar Gold property also contains low grade bulk tonnage potential, particularly to the north where a NI43-101 compliant inferred resource of 1.04 million ounces of gold (32.4 million tonnes at an average gold grade of 1.0 gram per tonne).

# Geochemical Sampling Program

## Scope of Work

Hunter and Pooley property is located at the southern part of fertile Casier Gold Belt. Compare to Taurus and Table Mountain gold mineralization areas Hunter and Pooley area is relatively considered under explored. In order to explore the potentials of gold and base metal mineralization other than the current resource area, a prospecting, stream sediments geochemistry exploration project initiated by China Mineral Mining Corp.

A 6 person crew mobilized to Jade City in mid-August and accessed the property by trucks. A helicopter was used to ferry crew members to inaccessible areas as needed. The main focus of the 2013 exploration work was stream sediment sampling across the property. Very limited rock and soil sampling was also completed. In total 192 stream sediment samples, 20 rock samples and 10 soil samples were collected and analyzed for Au, Cu, Pb, Zn and other elements.

Field descriptions, GPS locations and Au results are tabulated in Appendix 1 for each sample type. Certificates of Analyses are in Appendix 2. Sample numbers and gold results are plotted at 1:5000 scale on maps 13-01 to 13-08 inclusive (pocket). Sample distribution with respect to individual tenure is presented on Table 2 below.

Table 2 Distribution of 2013 Work

Tenure Number	Geochemical Sample Total				Comment
	Rock	Soil	Silt		
				Duplicate	
511371	5		6		
511380	1		30	3	
511387	5		8		
511394	1		14	1	
514088	0		24	1	
567733	0	0	5		
567756	0		0		
564713	0		1		
575976	4		5	2	
575978	0		7		
575979	0		7		
575980	0		13		
575982	0		4		
575983	1		6	1	
575985	1		5		
575987	0		4		
575996	0		3		
575998	1		11	1	
575999	0		3		
576000	0		4		
576001	0	10	4		
576004	0		5	1	
576024	0		3		
576026	1	0	6		
576028	0		0		
576031	0	0	1		From drainage source on
571356	0		0		
590125	0	0	13		
<b>TOTAL</b>	<b>20</b>	<b>10</b>	<b>192</b>	<b>10</b>	

## Samples Prepared and Analysis Method

All the samples were sent to ALS Geochemistry lab in Vancouver to analyze the Au and other elements. Au analyse uses Au ICP21 code which analyzes 30 gram sample by fire assay, the detection range is 0.001-10 ppm. For other elements , ME-MS41 package is used to analyze 51 elements, this is Ultra Trace Multi-element Aqua Regia Package.

The stream sediment samples prepared using ALS PREP41 code which is screened and analyzed -80 mesh portion of the samples. The rest -80 to 20 mesh portion is stored for further check if required.

## Quality Assurance and Quality Control

A quality assurance and quality control programs was also implemented for the exploration work. 11 blank and 9 standard samples were inserted into the samples, and 10 duplicated samples were also analyzed. There are abundant standard and blank samples were left at the exploration camp, this exploration program use the following standard and blank:

The standard CDN-CGS-11 Au  $0.73 \pm 0.068\text{g/t}$

The blank CDN-BL-4 (Blank)  $<0.01\text{g/t Au}$

### Blanks

The Au ppm of 11 blanks ranges from 0.001 to 0.003 ppm with an average 0.0017 (Figure 6 ). All the samples have the Au  $< 0.01$  ppm – the reference value.

The blanks are not coarse-grained, therefore they were not be used to verify the contamination of crushing process during the sample preparation. For this project all the stream sediment samples are from -80 mesh portion of the samples, they don't need the crushing process for the preparation of the samples.

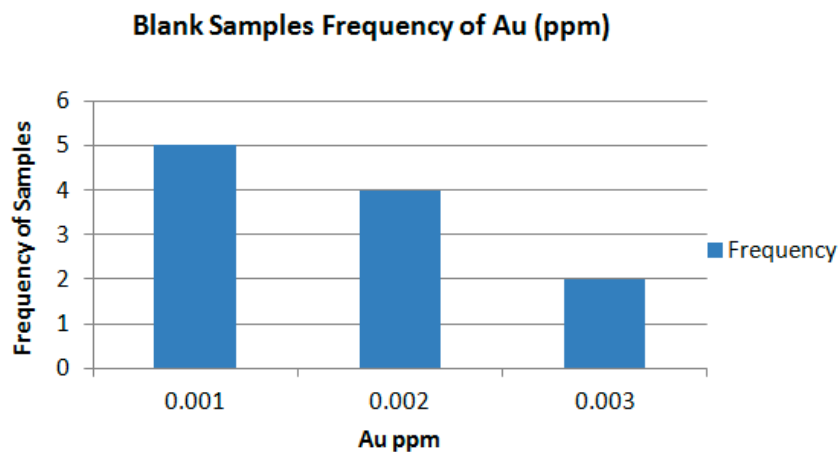


Figure 6 Blank Samples Au ppm Frequency

### Duplicates

10 pairs of duplicate samples are used for the QA/QC and results show on Figure 7 . Among them there are 2 pair duplicate samples showing a difference exceeding 20% with the original value. This could be explained by the fact that the duplicates were not homogenous.

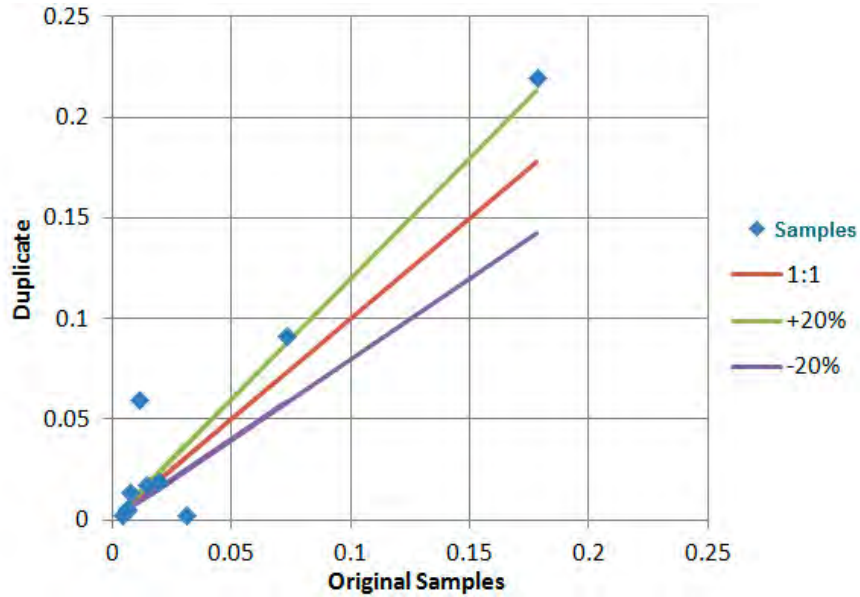


Figure 7 Scattergram of Duplicates

### Standards

10 standard sample of CDN-CGS-11 were inserted for the QA/QC program. All the results of Au ppm fell inside of Mean +/- 2 Standard Deviation area(Figure 8 ), no failure for the standard analysis.

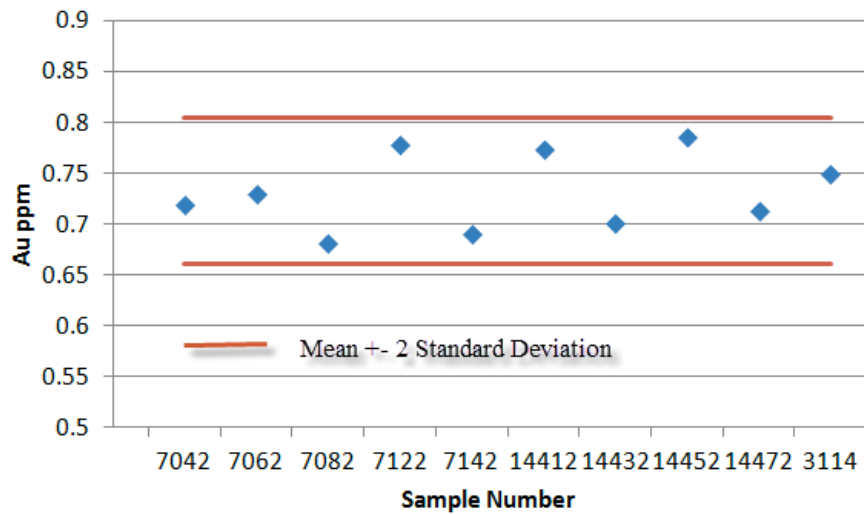


Figure 8 Control Chart of Standards Performance



ALS Minerals also initiated the internal QA/QC program, the results listed in the Appendix 2.

## Results and discussions

### Stream Sediments

Stream sediments sampling was the major exploration work and was conducted between Aug18 and Sept 9, 2013 by a crew of 4 field workers in the Hunter and Pooley areas.

Originally there were 223 samples planned, but not all of the planned locations are suitable for sampling. In total, 192 samples were collected during the field work ( Figure 9).

The samples were collected using 20 mesh sieve screened in the field. About 500-1000 grams for each sample are collected in the field using Hugo bag. Some samples are less than 500 grams due to the difficulty of collecting enough quantity of the sample.

Before the sampling work, a protocol of the work was made and all crew worked together for the first day to make sure everyone to follow the protocol.

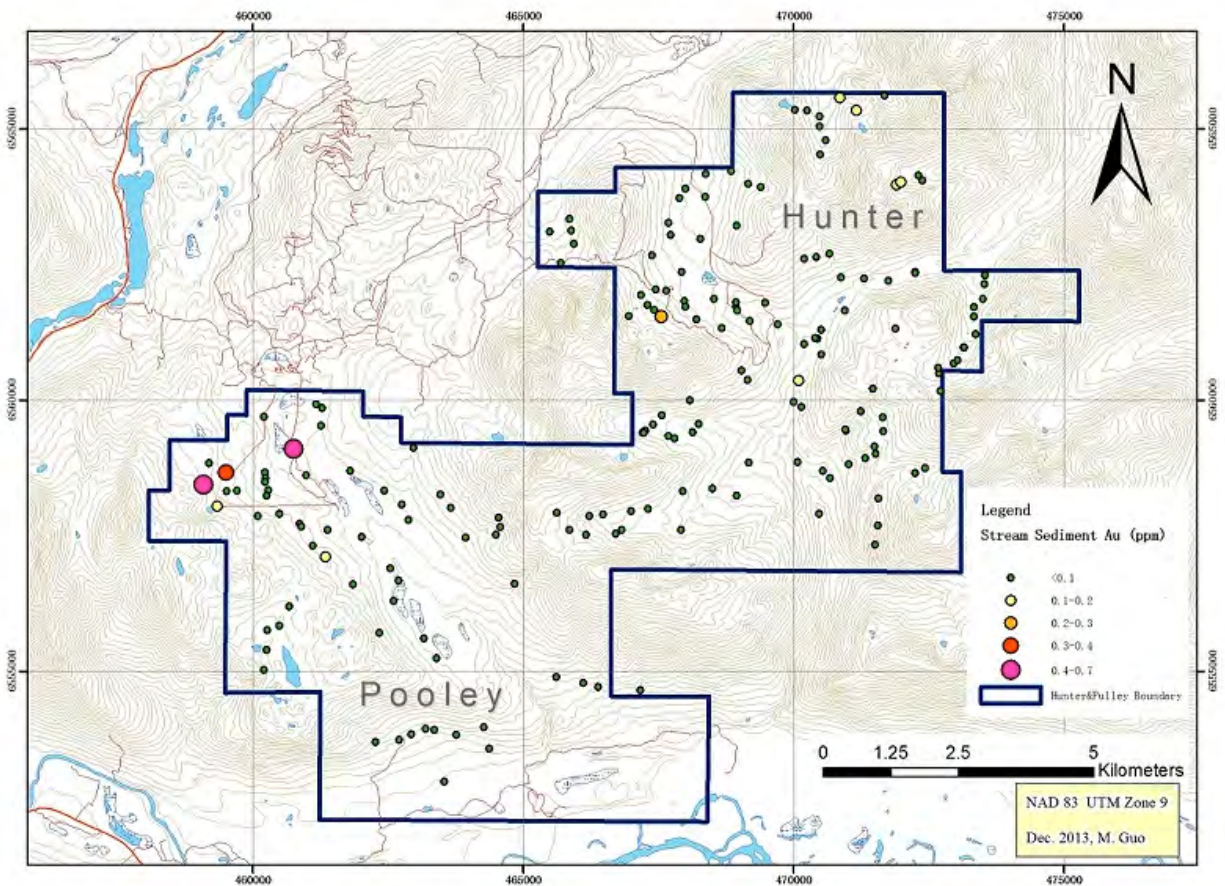


Figure 9 Stream Sediments Au assay results

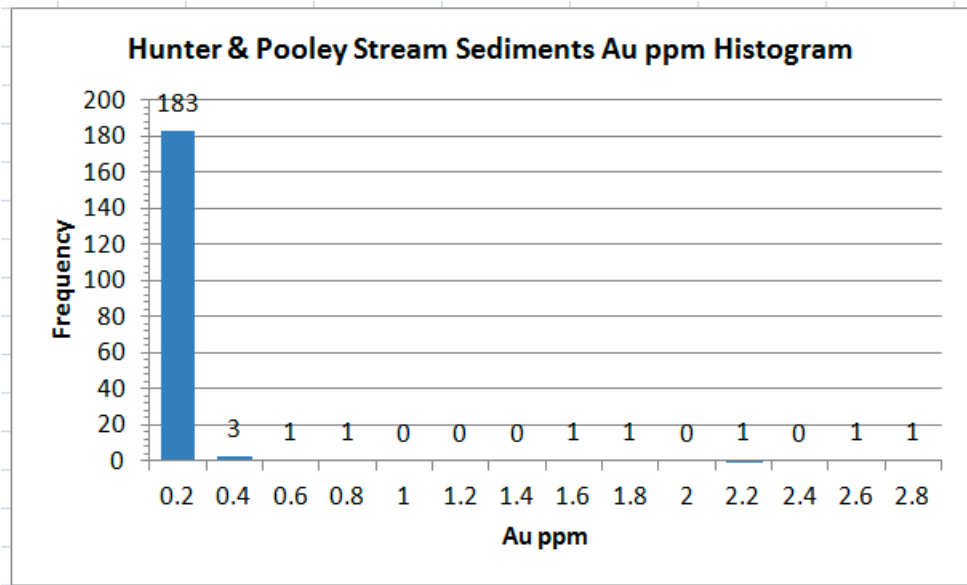


Figure 10 Au (ppm) Histogram of Stream Sediment Samples

The locations and analysis results of the stream sediments are shown on figure 9 and figure 10. For the 192 samples, the highest Au assay is 0.613 ppm, average 0.028 ppm. If we use 0.03 ppm Au as the background, there are 35 samples greater than 0.03 ppm Au, among them, there are 12 samples with Au anomaly greater than 0.1 ppm.

The Au anomaly areas are mainly located in the northwest of Pooley area (former Pete Prospect) and north and central Hunter areas. There were historic soil sampling programs with the Au anomaly coincides with these areas (Figure 11), it indicates that this 2013 exploration is effective and it also indicates that further work is required in order to locate the potential Au mineralization vein systems.

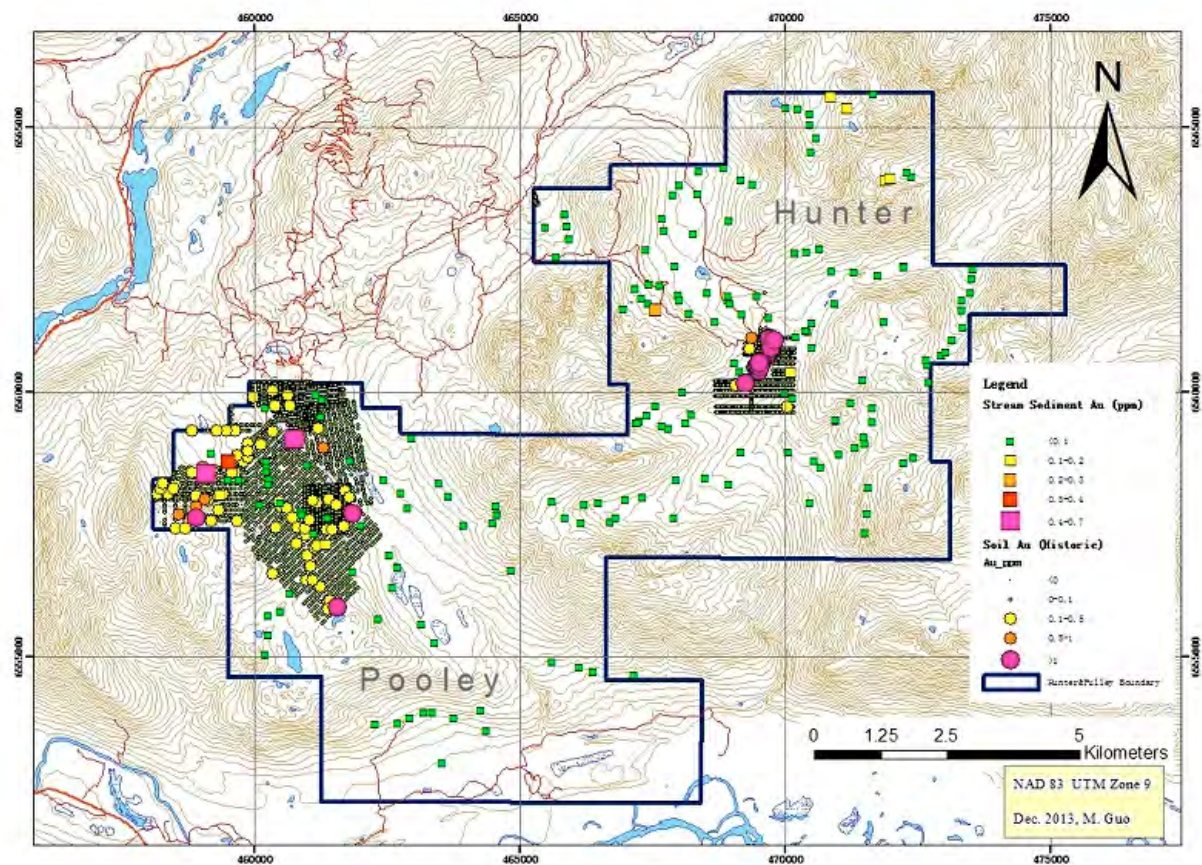


Figure 11 Historic Soil Sampling Results vs 2013 Stream Sediments Results

The Northwest of Pooley anomaly may be the best potential area. This area is also called Pete Prospect from previous work. This area is relatively low in elevation and heavily covered by trees and bushes. There are less outcrops in the area and make it difficult to conduct the exploration work.

The central part of Hunter anomaly was heavily explored before by diamond drilling and trenching. It has less potential.

The north anomaly of Hunter area needs to be further checked.

### Rock Samples

20 rock samples have Au assay ranges from 0.001 to 0.099 ppm with average 0.017 ppm Au (Figure 12, Figure 13). Two rock samples in the north Hunter area have the Au assay of 0.067 and 0.099 ppm, respectively. The samples are collected from narrow quartz veins and with carbonate alteration. The anomaly rock samples are located in the same stream sediment anomaly area. Further work is required to explore the potential Au mineralization.

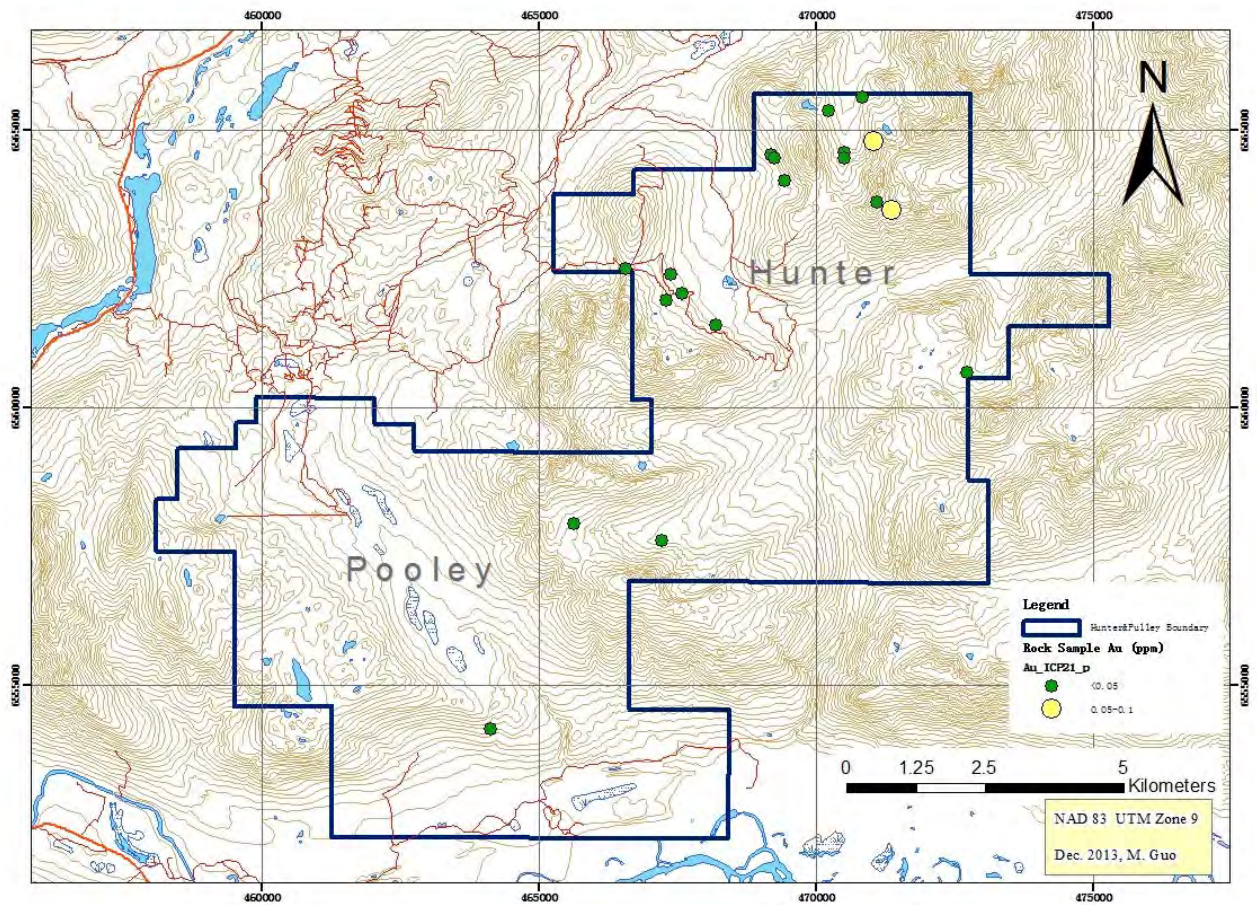


Figure 12 Hunter & Pooley area Rock Sample Locations and Au ppm Results

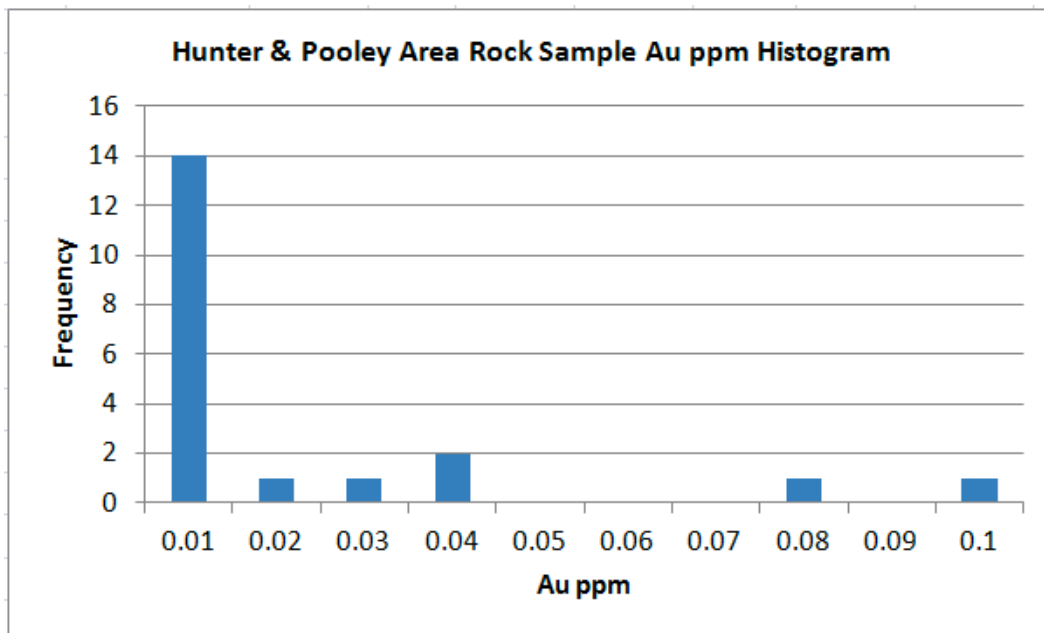


Figure 13 Au (ppm) Histogram of Rock Samples

## Soil Samples

The purpose of this soil sampling work is to verify the historic Au anomaly of the historic soil sampling program. Besides, it also tested the work conditions for the further proposed soil sampling program in the south extension of the area.

2 grid lines spacing 100 meters apart and oriented north-south were planned. Samples were collected at 50 meter intervals along the grid lines. Samples were collected from the B horizon whenever possible. Approximately 500 grams of soil material was packaged into kraft soil sample bags from each sample site. 10 soil samples were collected around the historic high anomaly Au soil sample location (Figure14).

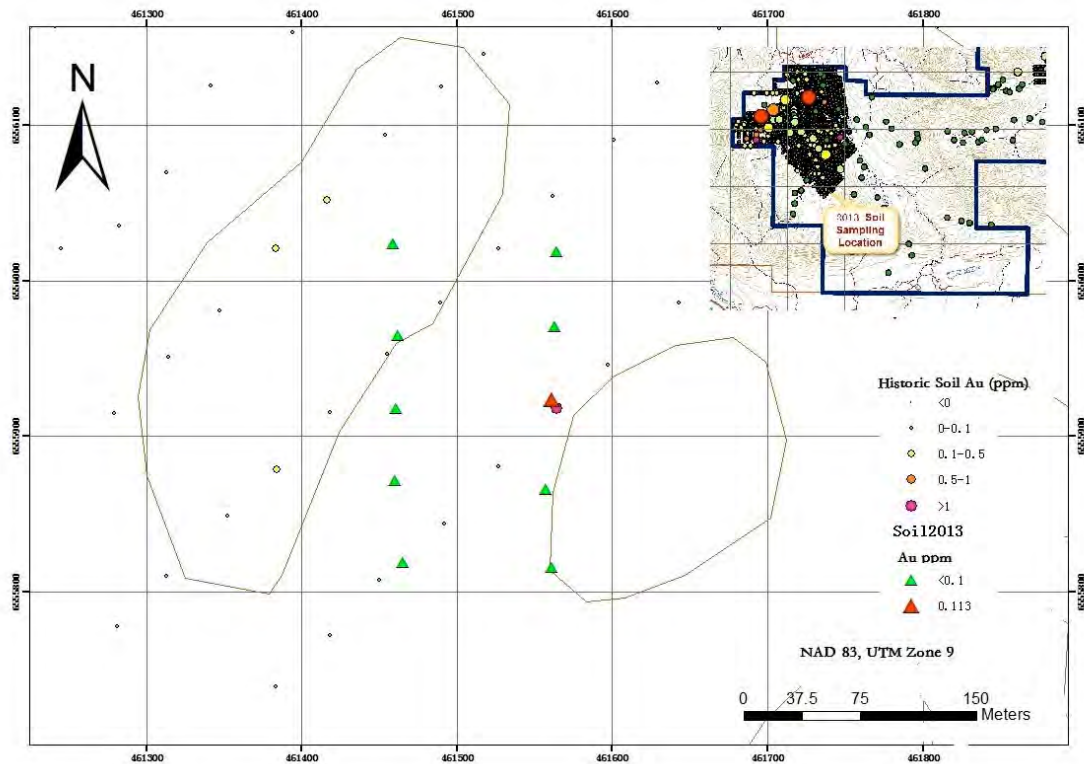


Figure 14 2013 Hunter & Pooley area Soil Sample Locations and Au ppm Results

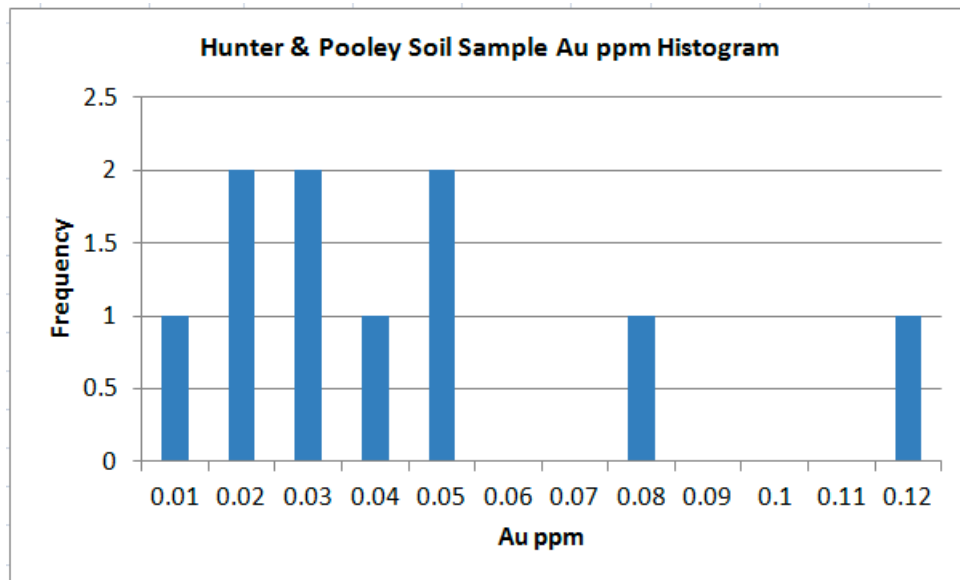


Figure 15 Au (ppm) Histogram of Soil Samples

### Other Mineralization

The 2013 work also focused on the Cu, Pb, Zn, Ag and other base metal potentials in the Hunter and Pooley area. All the samples are also analyzed the Cu, Pb, Zn, Ag and other elements u(51 elements package), the results don't show significant anomaly.

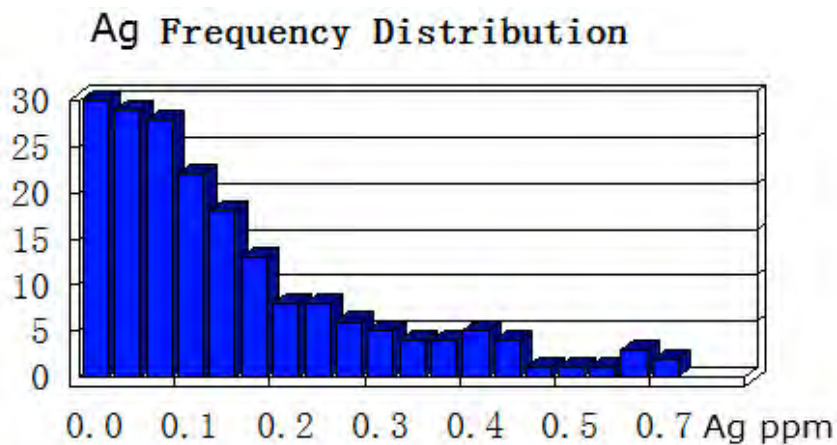


Figure 16 Stream Sediment Ag frequency Distribution

### Cu Frequency Distribution

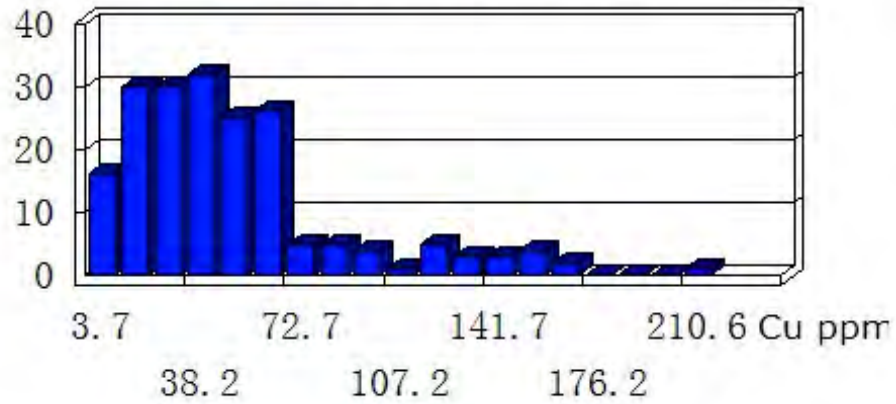


Figure 17 Stream Sediment Cu frequency Distribution

### Zn Frequency Distribution

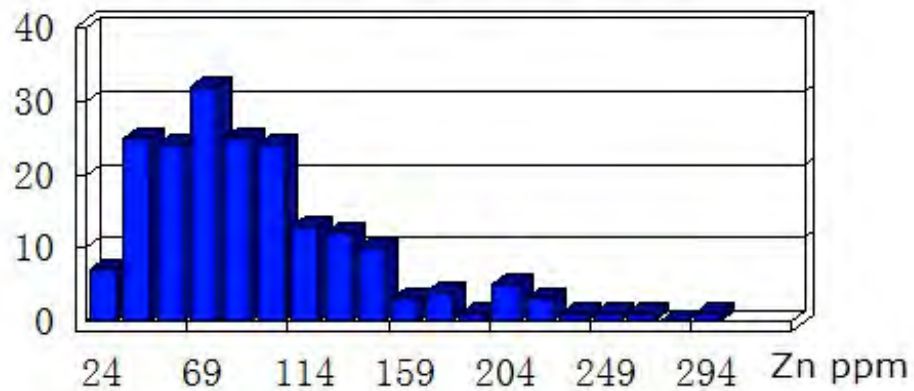


Figure 18 Stream Sediment Zn frequency Distribution

For the 192 stream sediment samples, Ag ppm varies between 0.03 – 0.67 ppm with an average 0.19 ppm; Cu contents are from 3.7 – 216 ppm , the average is 53.9 ppm; Zn values vary from 24 to 295 ppm with an average 98.9 ppm.

The Au ppm values have no obvious correlation with the Ag, Cu and Zn values.

## **Conclusion and Recommendations**

The 2013 exploration work has been finished efficiently and the results show some Au anomalies. The major Au anomaly area is located in the northwest of Pooley area which is called the Pete area from previous exploration. The historic soil sampling work also indicates the existing of Au anomalies in the same area.

Further work is needed in order to explore the potentials of Au mineralization for these anomalies. Since there is a lot of historic work, it is very important to thoroughly compile and analyze all the historic data before making further working plan in the area.

Based on the 2013 exploration work and historic data, there is a highly potential to locate some new gold vein systems in the area.



I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Respectfully Submitted,

*“Michael Guo”*

Micheal X. Guo, Ph.D, P.Geo, Chief Geologist

December 28, 2013

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# **Appendix 1**

## **Sample Locations, Descriptions and Gold Results**

## 2013 Silt Samples

Sample Number	Sample Type	UTM East	UTM North	Datum	Au (ppm)	Description	Situation	Material Type	Local Rock Types	Topography
7001	silt	468290	656341		0.006	small creek	bed	sandy gravel silt		gental slope, trees
7002	silt	468370	6564170		0.009	small creek with eddy		gravel+pebbles+silt	float argillite	med slope
7003	silt	469158	6563990		0.008	secondary small creek, active	bed	sandy gravel silt	float argillite	
7004	silt	469391	6563925		0.009	secondary small creek, close to joint	bed	pebbles + sandy silts	float argillite	slope
7005	silt	468591	656381		0.006	dry creek	corner, washing down stream			slope
7006	silt	467999	6563898		0.01	mini braided water way, low stream flow			arg and green stone	
7007	silt	467881	6563722		0.003	channel under low stream flow		silt + pebbles	angular arg	low slope
7008	silt	467682	6563272		0.007			finer in mud/organic		
7009	silt	468841	6564221		0.007	primary, active, slow flow, 1 m wide	bed	sandy silts	gravels. Mafic rocks	gental slopes
7010	silt	468938	6563218		0.007	secondday, close to joint	bed	gravel+pebbles+silt	upstream siltstone, valcanic boulders	slope
7011	silt	468274	6562977		0.006	wide and flat, slow flow	bed	gravel + pebbles, lest silts	basalt boulders	flat
7012	silt	468274	6562977		0.006	duplicate of 7011				
7013	silt	467718	6563044		0.006	small creek	bend	gravel+ fines	close to volcanic rocks	
7014	silt	467373	6562668		0.006	narrow creek, low flow	edge	silts with gravel and boulders		
7015	silt	467444	6562036		0.011	creek with flow under gravels	edge	silt with boulder and gravel	larger vocalnics, oxidized and altered(greenish)	
7016	silt	467177	6561937		0.007	creek	edge	finer in boulders zone	volcanics , some ultramafics, float	
7017	silt	467299	6561756		0.011	creek	side	finer in boulders + gravel zone	valcanics, fractured	
7018	silt	467413	6561664		0.024					
7019	silt	467644	6562015		0.016	narrow and deep	under boulders	silt under gravel and boulders	volcanics, greenish	low slope
7020	silt	470021	6565354		0.007	start of cr at lake edge		siltsand pebbles	segs	
7022	silt	470242	6565344		0.027	glacial material	center of cr	gravel and cobbles	segs arg -chert	
7023	silt	470472	6565234		0.038	moderate flow	edge under rock	gravel and silts	greenstone and glacial	
7024	silt	470470	6565044		0.009	braided cr, low flow	under boulders	silt	greenstone angular	
7025	silt	470589	6564790		0.024		center of cr	organics and silt	greenstone, oxidized qtz	
7026	silt	470487	6564526		0.012	moderate flow	pool in cr	gravel	greenstone	
7027	silt	468925	6561726		0.086	mod high flow	edge of cr	gravels and silt	greenstone, angular rounded	
7028	silt	468928	6561810		0.011	low stream flow	creek bed	silt organics	glacial rocks	
7029	silt	468954	6561651		0.014	mod flow	behind boulder	silt and gravels	green volcanics (and dacite)	
7030	silt	469185	6561456		0.007	small low flow	center of cr	organic -silt -clay	fe stained, volcanics and sedgs	
7031	silt	469036	6560547		0.011	low flow	center of cr	organics silts gravels	meta - sedgs	moderate slope
7032	silt	469036	6560547		0.06	low flow	center of cr	organics silts gravels	meta - sedgs	moderate slope
7033	silt	470432	6561131		0.016	low flow	behind boulder	silt	meta sedgs, green volcanics	low angle
7034	silt	470388	6561146		0.008	mod flow	behind boulder	silt and gravels	meta sedgs, green volcanics, + glacial	low angle
7035	silt	470194	6561036		0.013	strong flow, dense bush	edge of eddy	silt and gravels	meta sedgs, volcanics, sub angular	
7036	silt	470092	6560364		0.108	no water, S facing slope, thick trees	high flow mark	silt and gravels	meta sedgs. Mafics	
7037	silt	469992	6559970		0.006	low flow	edge of small cr	silt and gravels	geen + dacite volcanics	mod slope
7038	silt	470938	6561656		0.027	low flow	behind boulder	silt and gravels	qtz vein 1%	
7039	silt	470507	6561297		0.012	pools of fine and organics, low flow	center of cr	finer and organics	no rocks	
7040	silt	470500	6560836		0.016	low flow	small eddy at edge	gravel and silts	volcanics and sedgs, ang-sub angular	mod slope
7043	silt	470142	6559881		0.006	small creek, not much water		organic and silt	volcanics	mod slope
7044	silt	459923	6599022		0.292	low flow	under boulders	silt and gravel	volcanics	low angle slope
7045	silt	459506	6558670		0.337	low flow	edge of cr	gravel finer	meta sedgs, sub ang - angular	low angle
7046	silt	459192	6558840		0.028	in marsh, low flow	center of cr	silt	volcanic boulders	flat
7047	silt	459084	6558444		0.613	moderate flow	edge of creek	silt to boulders	vol and meta sedgs	mod slope
7048	silt	459337	6558045		0.117	low flow, cr outlet	behind boulder	boulder to silt	volcanics, qtz veins	below cliff, low angle
7049	silt	459516	6558323		0.033	low flow, deciduous trees	center of cr	silt and organincs	volcanics, qtz veins	
7050	silt	459706	6558331		0.059	low flow	edge of creek	silt	rounded volcanic boulders	low angle
7051	silt	468453	6563560	NAD27	0.009	5m wide, primary	bed	rocks and gravel	semi angular	gentle slope
7052	silt	468453	6563560	NAD27	0.078	5m wide secondary	bed	rocks and gravel	semi angular	gentle slope
7053	silt	468623	6561683	NAD27	0.012	3m wide, finer behind boulder,	bed	well sorted	volcanics	gentle slope
7054	silt	468294	6561302	NAD27	0.02	1m wide creek. By boulder	bed	sand and gravel	volcanics	moderate slope
7055	silt	467046	6561370	NAD27	0.059	steam bank, primary	bed	till	volcanics , high clorite	steep
7056	silt	467648	6561356	NAD27	0.247	primary,	bed	lots of finer	gabro dyke	flat area on hillside
7057	silt	468074	6561642	NAD27	0.015	1.5m wide secondary	bed	sand and gravel	geen volcanics	base of hill
7058	silt	468094	6561538	NAD27	0.013	secondary	bed	sand and gravel	volcanics, sub angular	base of slope
7059	silt	471894	6563972		0.133	1m wide primary, good flow	bed	gravel	volcanics	moderate slope
7060	silt	471977	6564019		0.132	moderate flow	bed	sand and gravel	volcanics, lith 110/85 dip	
7063	silt	472369	6564050		0.092	3m wide. Fast flow, behind boulder	bed	rocks and gravel	volcanics	moderate slope
7064	silt	472301	6564144		0.048	4m wide, secondary, slow fow	bed	sand and gravel	volcanics	flat
7065	silt	471872	6561321		0.036	30 cm wide, small creek	bed	sand and gravel	volcanics	moderate slope
7066	silt	469699	6561400		0.014	5m wide secondary, large flow	bed	sand and gravel	sub angular volcanics	flat
7067	silt	469463	6561800		0.005	small creek, secondary	bed	sand and gravel	volcanics w Qtz	in meadow
7068	silt	468860	6512165		0.009	small stream, 30 cm wide, primary	bed	silt and clay	volcanics	moderate slope

## 2013 Silt Samples

Sample Number	Sample Type	UTM East	UTM North	Datum	Au (ppm)	Description	Situation	Material Type	Local Rock Types	Topography
7069	silt	467922	6562368		0.007	small stream, 1.5m wide, slow	bed	silt and clay	volcanics	moderate slope
7070	silt	470185	6562607		0.01	2ft wide slow moving , primary		organics, silt, clay		at treeline
7071	silt	470408	6562637		0.031	rusty bank, primary		silt -pebbly		just below treeline
7072	silt	470408	6562637		0.003	rusty bank, primary		silt -pebbly		just below treeline
7073	silt	470655	6562698		0.016	primary, moderate flow		sand and gravel		moderate slope
7074	silt	470868	6562267		0.012	moderate flow, primary		silt to boulders	qtz- volcanics	moderate slope
7075	silt	471296	6562247		0.008	slow flow, secondary		sand to pebbles		gentle slope
7076	silt	471746	6562199		0.009	main cr in valley, moderate flow, secondary		silt to pebbles	sub rounded	gentle slope
7077	silt	472239	6562368		0.095	same as smpl 7076, beaver dm upstream		silt to pebbles	sub rounded	gentle slope
7078	silt	472244	6562349		0.014	main cr in valley, moderate flow, primary		silt to pebbles		gentle slope
7079	silt	469140	6560373		0.017	low flow, below treeline		silt to boulders	volcanics	moderate slope
7080	silt	468077	6560001		0.039	very low flow, primary, at treeline, mossy		silt to boulders	volcanics	gentle slope
7083	silt	467556	6559719		0.018	near valley bottom, primary, low flow		sandy w pebbles		gentle slope
7084	silt	467392	6559554		0.003	from N slope, taken at valley bottom, primary moderate flow		up to pebble size	volcanics	gentle slope
7085	silt	467251	6559437		0.003	fast flow, secondary, main cr on valley flow		silt to bolders	volcanics	moderate slope
7086	silt	467200	6559394		0.008	fast flow near valley floor, primary		sand to pebbles		mod slope
7087	silt	467222	6559394		0.011	same as smpl 7086, one drainage east, primary		sand to pebbles		mod slope
7088	silt	467678	6559338		0.002	low flow, near valley bottom, primary		silt to boulders	angular	gentle slope
7089	silt	467796	6559297		0.026	primary, near valley bottom, mod flow		silt to pebbles		gentle slope
7090	silt	468123	6559408		0.003	moderate flow, primary		silt to pebbles		mod slope
7091	silt	468669	6561325		0.014	moderate flow, primary		silt to pebbles		mod slope
7092	silt	468669	6561325		0.018	moderate flow, primary		silt to pebbles		mod slope
7093	silt	468235	6559561		0.003	valley bottom, secondary, fast flow		sand to boulders	volcanics	gentle slope
7094	silt	465686	6562528		0.005	primary, flowing from glacier,fast flow		sand to boulders	volcanics rounder	gentle slope
7095	silt	460227	6558669		0.049	40cm wide, primary	bed	silt and organics		swampy slope
7096	silt	460230	6558565		0.048	1m wide, primary	bed	sand and gravel	rocky	gentle slope
7097	silt	460225	6558494		0.02	3m wide, primary		sand and gravel	sub angular volcanics	gentle slope
7098	silt	460280	6558338		0.042	primary, mod flow		sand and gravel		gentle slope
7099	silt	460257	6558244		0.038	large creek, dry, mod flow	high water	rocky	semi angular volcanics	
7100	silt	460095	6557866		0.054	fast flow, rocky creek		gravel and rocks	volcanics - Qtz	mod slope
7101	silt	460208	6559697		0.027	secondary creek, low flow	bed	silt to boulders		
7102	silt	461853	6556603		0.042	creek, low flow	edge	gravels + silt	dominantly green volcanics, sub rounded	mod slope
7103	silt	462337	6555710		0.011	creek, low flow	edge	gravels + silt	basalt, andesite-dacite, and sed	mod slope, coniferous trrees
7104	silt	462598	6556299		0.006	small creek, low flow	bed	organics + silt	fine grained material at marsh edge, little rock; uphill from sample is outcrop with qtz veins (270/60)	low angle, deciduous
7105	silt	462694	6556675		0.005	moderate flow creek	edge of sand bar	orange/brown sand, gravel, silt	sed + volcanics	low angle
7106	silt	462545	6556900		0.006	creek, low flow	edge	gray sand (some oxidation) + fines		low angle
7107	silt	462014	6557477		0.004	creek, low flow	bed	sand + silt	coarse grained intrusive w/ f.g. Volcanics. Sub-angular to rounded. 1% qtz.	low angle
7108	silt	465929	6562881		0.037	creek, low-mod flow	edge	gravel + silt	green volcanics (andesite) w/ sediments. Some qtz vein through sediments.	mod slope
7109	silt	465884	6563129		0.009	creek, low flow	bed	gravel + silt	dominantly sed, 5-10% volcanics	mod slope, coniferous and
7110	silt	465847	6563342		0.011	creek, very low flow; little water at base	center	gravel + silt	argillite, sed, angular. Platy material	mod slope
7111	silt	465484	6563107		0.006	creek, moderate-high flow	edge	gravel + silt	volcanics, sed, with qtz visible. Fe-staining on rock.	
7112	silt	465484	6563107		0.005	Duplicate of 7111				
7113	silt	466214	6557861		0.008	creek, mod flow	edge	gravel + silt	dominantly meta-seds, <5% volcanics (likely glacial). Angular to sub-rounded.	low to mod slope
7114	silt	466472	6557897		0.003	narrow creek, low flow	center	gravel + silt	increasing volcanics - fine to med grained. And-dacite. 50% sed/50%	mod slope
7115	silt	466987	6557958		0.002	creek, minimal flow	center	gravel + silt	qtz mixed with meta sed & 10-15% green volcanic. Angular to sub-rounded	low-mod angle. Coniferous trees.
7116	silt	467307	6558000		0.002	creek, low to mod flow	center	gravel + silt	black to gray meta sed, little volcanics, no qtz. Angular to subrounded.	mod slope. Avalanche path.
7117	silt	467943	6558322		0.001	creek, low flow	center	silt + organics	organics with volcanics. Fe-staining visible. Larger cobbles and boulders are rounded. Smaller finer material is angular to sub-rounded	low-mod angle.
7118	silt	468497	6558377		0.004	creek, largest in valley	edge	boulders to silt	olivine pheric andesite-dacite. Qtz flooding makes rock very hard. Chlorite alteration (green rock). Sub-angular to sub rounded. Small stringers of qtz/carb cuts through <2% of volcanics.	
7119	silt	469166	6558847		0.003	main drainage creek, mod to high flow	edge	sand, boulders, silt	green volcanics w. Increased weathering and more sed rock at this location. Sub rounded rocks	low angle
7120	silt	471645	6559682		0.003	creek, low to mod flow	edge	gravel, sand, silt	dark grey-black, f.g. Volcanics with metaseds. Sub rounded to angular. Some qtz float, (no sulphides)	low to mod angle
7123	silt	471648	6559430		0.001	creek, low flow	center	gravel, silt	intermediate volcanics w/ some metaseds. Angular material	low angle slope
7124	silt	471488	6559148		0.779	low-mod flow	edge	cobbles, minimal silt	f.g. Volcanics, grey white and orange. Int. to felsic rock. Angular material	mod slope
7125	silt	471511	6559010		0.001	low flow	center	cobbles + silt	Area has serpentine in fault (?) rocks. F.g. grey to black volcanics. Sub rounded to sub angular. Some very porous sediments.	mod-steep slope

## 2013 Silt Samples

Sample Number	Sample Type	UTM East	UTM North	Datum	Au (ppm)	Description	Situation	Material Type	Local Rock Types	Topography
7126	silt	471313	6558935		0.006	low flow	edge	gravel + silt	dark black, f.g. Ultramafics (magnete), also carbonaceous (high effervesence). White f.g. Altered rock with carbonate whisps. No visible mineralization. Green, soft, serpentine on some surfaces (faulted surface?). Angular rocks.	mod angle
7127	silt	471009	6558817		0.008	low-mod flow	edge	gravel + silt	similar f.g. Mafic rocks, some lighter volc., calcite veins on fracture surfaces	low angle
7128	silt	470669	6558566		0.007	mod flow	edge	gravel + silt	volcanics, mixed variety. Large clasts of ultramafics in some more felsic rock. Angular to sub rounded	low- mod slope
7129	silt	470539	6558693		0.005	mod flow	edge under log jam	silt	ultramafics and intermediate volcanics	low angle, coniferous trees
7130	silt	460675	6556199		0.004	low flow stream from lake	center	gravel	rounded intrusive w/ green volcanics. Sub-rounded to angular clasts	low slope
7131	silt	460483	6555840		0.004	low to mod flow	edge	silt + boulders	rounded intrusive, likely glacial. Yellow/green f.g. Rounded to angular andesite.	coniferous trees
7132	silt	460483	6555840		0.003	duplicate of 7131				
7133	silt	460263	6555762		0.004	low flow	edge	silt + gravel	sub angular to sub rounded	low angle
7134	silt	460254	6555395		0.005		edge	silt + gravel	<2% bulk qtz w/ no mineralization. Siltstone/slate w/ some Fe stained volcanics	
7135	silt	460208	6555028		0.002	mod flow	edge	platy rocks + fines	taken along fault on shale/siltstone outcrop below qtz veins in volcanics. Some glacial boulders.	Mod slope
7136	silt	463755	6553830		0.002	dry creek, paleostream	dry creek	sand + silt	volcanic gravels/sands	mod angle
7137	silt	463356	6553925		0.004	low flow creek	debris filled ck.	silt + organics	large rounded glacial (?) intrusives	mod angle, overgrown S facing burn
7138	silt	463190	6553944		0.001			silt + organics	sand (volcanics?). Sub-rounded to angular.	Devils club + fallen trees
7139	silt	462921	6553842		0.001	low flow	edge	silt	silt and sand from volcanic source, angular	low angle
7140	silt	462699	6553740		0.002	low flow	creek	log jam w/ sediment	no visible rock	old burned area, mod to steep
7143	silt	462270	6553704		0.003	mod flow	edge	cobbles to silt	75% intrusive, 20% f.g. Volcanics, 5% sediments (shale/siltstone).	mod-angle
7144	silt	464546	6557836		0.007	low flow, primary, small cr. Leading to		mud	pebble sized metasediments	steep slope
7145	silt	464570	6557666		0.011	primary, mod flow. In large well		silt to sand	mainly seds w/ angular volcanics up to 15 cm	mod slope
7146	silt	464493	6557517		0.008	primary, small 40 cm creek, low flow		silt to sand	pebble sized metasediments	mod slope
7147	silt	464832	6556612		0.011	primary, 1 m wide, fast flow		silt	pebble sized metasediments	gentle slope
7148	silt	462966	6559123		0.004	primary, 1-2m wide, fast flow	edge	silt	mainly boulders, up to 1m rounded glacial volcanics and intrusives	gentle slope, well vegetated
7149	silt	463466	6558257		0.003	primary, small 30 cm stream, low flow	center	mud to silt	few angular volcanic pebbles	gentle slope
7150	silt	463657	6558016		0.008	primary, 1-2m wide, dry creek	center	sand	mainly sand with volcanic boulders up to 50 cm.	gentle to mod slope, well
14401	silt	460484	6557901		0.073	primary, slow flow	rocky stream bed	organics, silt, gravel	angular volcanics	
14402	silt	460484	6557900		0.092	duplicate of 14401				
14403	silt	460864	6557727		0.025	primary, rocky wash	stream bed	possible till	sub angular volcanics, some intrusives	
14404	silt	460896	6557671		0.036	primary, slow flow	stream bed		angular to rounded boulders, volcanics and qtz	gentle slope
14405	silt	461104	6557319		0.042	primary, 30 cm small stream, slow flow			sub angular felsic volcanic boulders	
14406	silt	461342	6557108		0.113	primary, small rivine, low flow	bed	sand and gravel	volcanic boulders	thick bush
14407	silt	461377	6557614		0.026	1 m wide steam, flat swamp	bed	sand and gravel	round volcanic boulders	
14408	silt	460990	6558616		0.019	2 m wide mod flow	bed	sand and gravel	volcanic boulders	
14409	silt	460732	6558990		0.018	1 m wide, high fast flow	bed		many volcanic boulders	
14410	silt	460749	6559109		0.44	5 m wide, large flow	bed, 10 m west	high sand and gravel		
14413	silt	462878	6557797		0.004	primary, low flow		sand to gravel	no rocks	gentle slope
14414	silt	462752	6558074		0.004	primary, low flow braided stream	bed	silt to sand	no rocks	gentle slope
14415	silt	462427	6558333		0.001	primary, low flow, small stream in low	bed	small silt to sand deposit	no rocks	gentle slope
14416	silt	461802	6558697		0.002	primary, low flow	sandy bar	sand		gentle to mod slope
14417	silt	461256	6559531		0.006	primary, low flow		silt to pebbles		gentle slope
14418	silt	461276	6559857		0.004	primary, low flow		silt to sand		gentle slope
14419	silt	461164	6559925		0.009	secondary, main creek in valley, fast	edge		sand to 50 cm boulders	gentle slope
14420	silt	465614	6557921		0.008	primary, 1 m wide, mod flow		low silt	gravel, angular rocks	
14421	silt	465848	6557613		0.007	primary, 1m wide slow flow		sand and gravel	angular gravel, no rocks	gentle meadows
14422	silt	465848	6557613		0.014	Duplicate of 14421				
14423	silt	466159	6557523		0.01	primary, 30 cm wide, gentle flow		sand + gravel	angular volcanics, qtz-carb boulders. Angular	Erosive gully
14424	silt	466700	6557541		0.008	primary, 1m wide, mod flow			sub angular green volcanics	gentle slow
14425	silt	466814	6557612		0.008	5 m wide, large flow, main creek			sub rounded to sub angular boulders	
14426	silt	467910	6557609		0.006	2 m wide, secondary, good flow			sub angular greenstone volcanics. Gravel + rocks	
14427	silt	468939	6558245		0.002	1 m wide		silt + gravel	volcanic rocks and gravel	flat area
14428	silt	471456	6560214		0.017	small creek in deep gully, 40 cm wide,		sand + gravel	mostly arg and shale, sme qtz veining.	steep slope
14429	silt	471233	6559790		0.015	1 m wide creek, fast flow in deep		gravel to rocks	sub angular volcanics - altered	
14430	silt	470958	6559440		0.006	3m wide fast flow		sand and gravel	green volcanic, sub rounded boulders w/ intrusives	
14433	silt	470950	6559455		0.021	3m wide mod flow		high gravel	rounded to sub angular volcanic rocks	
14434	silt	470064	6558865		0.007	5 m wide creek, secondary, large flow	edge		sub rounded boulders, mainly greenstone volcanics	
14435	silt	472707	6560169		0.012	primary, fast flow			pebbles to boulders up to 50 cm. Sediments and volcanics	mod slope
14436	silt	472679	6560492		0.022	primary, mod flow	sampled where		sediments, volcanics, and qtz. Pebbles to 50 cm boulders.	gentle slope
14437	silt	472664	6560595		0.016	primary, mod flow. In large well		sand to boulders	sand to 1m boulders of foliated sediments and glacial (?) volcanics	mod slope
14438	silt	472949	6560675		0.033	secondary, main creek in valley, fast		sand to boulders	mainly seds w/ volcanics	mod slope
14439	silt	473140	6560977		0.014	primary, low flow	sampled where	sand to boulders		mod slope, below treeline
14440	silt	473021	6560744		0.026	primary, small creek, low flow		sand to boulders	volcanics	gentle slope
14441	silt	473145	6560973		0.019	secondary, main creek in valley, fast		sand to boulders	volcanics, angular boulders up to 1m, rusty volcanic outcrops along shore	gentle slope
14442	silt	473145	6560973		0.019	duplicate of 14441				
14443	silt	473358	6561218		0.015	primary, 1 m creek, fast flow			volcanics up to 30 cm	mod slope
14444	silt	473330	6561547		0.017	secondary, main creek in valley, fast			mainly volcanics, up to 1m boulders	gentle slope

## 2013 Silt Samples

Sample Number	Sample Type	UTM East	UTM North	Datum	Au (ppm)	Description	Situation	Material Type	Local Rock Types	Topography
14445	silt	473330	6561718		0.015	primary, 1m, slow flow		silt to sand, few pebbles		gentle slope
14446	silt	473486	6561865		0.011	primary, 50 cm, low flow		sand to pebbles	volcanics up to 75 cm boulders	mod slope
14447	silt	473518	6562138		0.01	primary, small .75 m creek		silt to sand	30 cm rounded volcanics	well vegetated area
14448	silt	473529	6562303		0.019	secondary, main creek in valley, fast		silt	angular boulders up to 1m	gentle slope, thick vegetation
14449	silt	472420	6558749		0.004	3 m wide, fast flow			angular volcanics, greenstone to mafic	gentle slope
14450	silt	472242	6558660		0.005	2m wide secondary		sand and gravel	angular greenstone, large volcanic boulders	
14453	silt	471562	6558193		0.004	4m	from behind large	gravel and rocks	large sub angular volcanic boulders	
14454	silt	471548	6557694		0.003	1m wide, small flow, primary		gravel and rocks	angular greenstone, large volcanic boulders	
14455	silt	471502	6557332		0.005	4m wide	behind large	sand and gravel	greenstone	outcrop cliff, possible contact
14456	silt	470464	6557909		0.002	4m wide	edge	sand and gravel	rounded volcanic rocks	
14457	silt	465607	6554897		0.002	low flow	center	silt and organics	no rocks	swamp, low angle
14458	silt	466106	6554785		0.005	mod angle	edge	gravel and rocks	variety of metaseds, cherty rocks, shale, granodiorite, green volcanics. Mostly angular w/ some rounded boulders.	Mod slope, conifers
14459	silt	466384	6554717		0.007	mod to high flow	inside edge	sand and fines	25% intrusives (rounded) and volcanics (angular)	mod angle, devils club everywhere!
14460	silt	467158	6554651		0.005	low flow	edge	gravel and silt	increasing green volcanics, large amounts of ep. Some qtz (<5%), sub angular overall. 40-50% sed.	low angle, deciduous
14461	silt	470847	6565570		0.178	fast flow	edge	sand to boulders	up to 40cm volcanic boulders, bit of qtz-carb.	mod slope, at treeline
14462	silt	470847	6565570		0.22	duplicate of 14461				
14463	silt	471156	6565340		0.14	small flow, stream in outcrop, primary		gravel and rocks	foliated mafic volcanics (110/80). Structures cross cutting at 200/90.	Steep slope
14464	silt	471674	6565618		0.029	5 m wide		sand and gravel	angular rocks, volcanics	bottom of glacial cirque
14465	silt	463157	6555605		0.009	40 cm small creek in meadow		sandy	few boulders - volcanics	flat
14466	silt	463391	6555248		0.01	primary, stream/till, 40 cm wide, no		rocky with silt and	volcanic rocks	primary
14467	silt	464264	6553979		0.003	30 cm wide	dry sandy creek	sabd	no rocks	mossy gully
14468	silt	464369	6553580		0.023	30 cm small flow, primary		sand and organics	some intrussive rocks	morrain
14469	silt	463540	6552971		0.001	dry swamp		sand	no rocks	flat
14476	silt	463935	6557465		0.005	primary, 1.5-2.5m	edge	sand to boulders	large angular volcanics with little bit of qtz-carb	well veg area.



## 2013 Soil Samples

Sample Number	Sample Type	Au (ppm)	UTM East	UTM North	Color	Depth (cm)	Particle Size	Shape	Sorting
14201	soil	0.019	461459	6556024	brown to	30	till	rounded	poor
14202	soil	0.02	461462	6555965	grey/brn	35	till	anglur +	poor
14203	soil	0.025	461461	6555918	grey	30	till	rounded	poor
14204	soil	0.021	461460	6555872	grey	30	till	rounded	poor
14205	soil	0.006	461465	6555819	grey	40	till	rounded	poor
14206	soil	0.048	461561	6555816	brown to				poor
14207	soil	0.033	461557	6555866	grey/brn	30	soil	sub-	poor
14208	soil	0.113	461561	6555924	grey/brn	40	soil/till with large		poor
14209	soil	0.046	461563	6555971	black-	38	silt-till		poor
14210	soil	0.074	461564	6556019	descriptio	45	silt-till	anglur	poor

## 2013 Rock Samples

Sample Number	Sample Type	UTM East	UTM North	Field Datum	Au (ppm)	Description	Occurrence
3101	rock	468186	6561470	NAD27	0.023	Basalt, light green, med-grained.	float
3102	rock	468186	6561470	NAD27	0.006	Basalt. top of cliff fg, light green	outcrop
3103	rock	471099	6563696		0.04	brown qtz carb vein, no py	outcrop
3104	rock	471362	6567577		0.076	1-5 cm Qtz vein, fe carb	outcrop
3105	rock	465621	6557901		0.001	qtz carb vein, drk grey - green	float
3106	rock	467221	6557602		0.007	Large angular boulders with Py	float
3107	rock	472723	6560631		0.001	qtz carb vein, foliated, graphitic,	outcrop
3108	rock	466556	6562489		0.006	altered basalt. Silicified ,	outcrop
3109	rock	467569	6562051		0.006	gossan in creek, high py felsic	outcrop
3110	rock	470827	6565586		0.038	green drk grey mv many Qtz fe carb vein 1-10cm, altered rusty	outcrop
3111	rock	471027	6564788		0.099	1m wide Qtz vein, some carb,	outcrop
3112	rock	464128	6554201		0.002	Qtz vein w carbonate, altered	outcrop
3151	rock	469178	6564550		0.001	oxidized qtz vein	float
3152	rock	469236	6564495		0.002	medium-fine grained basalt with	OC
3153	rock	469425	6564087		0.017	oxidized outcrop (Listwanite?),	OC
3154	rock	467381	6562396		0.002	Basalt, light green, med-	Float
3155	rock	467292	6561925		0.001	qtz with sulfides	Float
3156	rock	470219	6565339		0.006	oxidized and altered sediments,	OC
3157	rock	470498	6564590		0.004	Metamorphic seds in fault zone,	OC

## **Appendix 2**

### **Laboratory Certificates of Analyses**

### **And QC**



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

To: CHINA MINERALS CORP. LTD.  
 SUITE 490-1111 MELVILLE ST.  
 VANCOUVER BC V6E 3V6

Page: 1  
 Finalized Date: 24-SEP-2013  
 Account: MINCHI

**CERTIFICATE VA13166703**

Project: Exploration  
 P.O. No.:  
 This report is for 150 Sediment samples submitted to our lab in Vancouver, BC, Canada on 13-SEP-2013.  
 The following have access to data associated with this certificate:  
 PATRICIA FONG                      MICHAEL GUO                      LEO ZHU

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: CHINA MINERALS CORP. LTD.  
 ATTN: MICHAEL GUO  
 SUITE 490-1111 MELVILLE ST.  
 VANCOUVER BC V6E 3V6

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager







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Page: 2 - C  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 24-SEP-2013  
 Account: MINCHI

Project: Exploration

**CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	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	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
7001		1.18	37.0	670	6.7	4.6	0.004	0.04	0.55	3.4	1.7	0.3	34.0	<0.01	0.04	1.0
7002		0.19	67.3	860	13.0	2.3	0.006	0.10	2.81	2.8	4.1	<0.2	42.3	<0.01	0.09	3.5
7003		0.15	68.9	820	13.7	1.9	0.011	0.10	3.26	2.9	4.6	<0.2	46.0	<0.01	0.09	4.0
7004		0.21	74.5	870	14.8	2.2	0.009	0.12	3.60	3.2	5.7	<0.2	52.2	<0.01	0.10	4.1
7005		1.34	44.6	880	12.9	6.3	0.004	0.05	0.90	3.3	1.8	0.3	42.1	0.01	0.05	1.2
7006		1.34	35.6	700	8.8	5.5	0.004	0.04	0.71	2.3	2.2	0.3	34.6	<0.01	0.03	0.7
7007		1.23	37.6	830	6.5	5.0	0.017	0.05	0.55	2.5	2.7	0.2	58.6	0.01	0.03	1.7
7008		0.72	38.9	740	10.7	4.5	0.004	0.04	0.96	2.7	2.3	0.2	34.8	<0.01	0.04	1.5
7009		0.92	87.4	820	7.1	3.9	0.002	0.03	1.31	3.5	1.2	0.2	23.7	<0.01	0.04	1.8
7010		0.72	52.3	800	16.7	3.6	0.002	0.01	2.00	3.3	2.1	0.2	30.5	<0.01	0.08	3.6
7011		1.84	46.0	610	7.5	7.0	0.004	0.04	0.57	8.9	1.5	0.6	52.6	0.01	0.08	0.5
7012		2.00	47.6	640	7.9	7.1	0.004	0.04	0.62	9.3	1.5	0.7	53.1	0.01	0.08	0.6
7013		1.54	41.4	600	11.7	6.3	0.003	0.02	0.90	4.7	1.9	0.4	43.8	0.01	0.05	1.1
7014		1.12	44.2	580	10.6	4.9	0.001	0.02	0.91	5.3	1.4	0.3	34.6	<0.01	0.06	1.7
7015		1.34	55.4	620	6.9	4.1	0.001	0.03	0.50	9.6	1.3	0.4	28.1	0.01	0.14	0.7
7016		0.79	52.7	480	5.2	2.6	<0.001	0.01	0.50	8.5	0.7	0.3	22.1	<0.01	0.12	0.7
7017		1.11	51.9	610	7.4	3.4	<0.001	0.02	0.47	9.8	1.1	0.4	29.0	0.01	0.13	0.8
7018		1.71	58.8	760	9.6	6.0	0.001	0.05	0.76	12.4	1.7	0.5	44.7	<0.01	0.17	0.6
7019		1.03	54.2	600	6.8	3.5	0.001	0.04	0.64	9.9	1.5	0.3	33.0	<0.01	0.31	0.6
7020		0.78	47.9	540	3.3	3.4	<0.001	0.01	0.66	9.0	0.7	0.4	12.8	<0.01	0.02	1.1
7021		0.19	19.5	560	4.0	4.8	0.001	0.04	0.37	5.8	0.4	0.6	45.4	<0.01	0.02	0.9
7022		0.76	85.5	820	11.7	7.5	<0.001	0.04	1.95	13.7	1.8	0.5	21.3	0.01	0.13	1.3
7023		0.35	66.6	600	7.5	3.6	0.001	0.03	1.53	9.7	1.1	0.4	13.1	0.01	0.07	1.7
7024		0.93	51.2	640	7.9	4.9	0.002	0.02	0.92	7.5	1.6	0.4	17.4	<0.01	0.04	1.8
7025		0.76	67.0	720	9.7	5.7	0.001	0.02	1.74	10.1	1.4	0.4	12.8	0.01	0.06	1.7
7026		0.30	71.6	660	7.7	4.1	0.001	0.05	1.55	12.1	1.2	0.4	14.3	0.01	0.06	1.9
7027		0.97	53.1	480	5.5	2.9	0.002	0.02	0.66	6.9	1.1	0.3	21.5	<0.01	0.08	0.9
7028		4.33	36.9	1060	3.9	3.4	0.009	0.03	0.50	7.5	1.2	0.6	64.5	0.01	0.03	1.5
7029		0.77	62.5	620	7.4	4.1	0.007	0.01	1.15	6.1	1.2	0.2	28.6	<0.01	0.06	1.7
7030		3.40	63.8	770	10.3	6.1	0.003	0.02	1.23	5.9	3.0	0.7	30.8	0.04	0.07	2.5
7031		0.79	62.9	570	12.4	6.3	0.008	0.02	1.71	6.2	2.5	0.4	34.5	<0.01	0.07	0.9
7032		0.71	61.1	580	11.8	5.9	0.004	0.02	1.71	6.2	2.3	0.4	33.5	<0.01	0.07	1.1
7033		0.92	64.5	550	5.0	4.1	0.003	0.01	1.31	6.5	1.1	0.3	24.1	<0.01	0.03	1.1
7034		1.17	51.6	590	4.5	4.3	0.005	0.03	0.70	6.9	1.7	0.3	26.5	<0.01	0.03	0.9
7035		0.97	58.7	560	5.9	3.5	0.004	0.02	1.03	7.2	1.2	0.3	28.7	<0.01	0.05	1.1
7036		0.66	43.1	570	3.8	2.5	0.002	0.02	1.04	5.6	0.8	0.2	21.9	<0.01	0.03	1.2
7037		1.39	29.5	420	3.6	4.0	0.001	0.02	0.41	6.7	0.7	0.4	25.4	<0.01	0.02	0.9
7038		1.32	44.5	730	7.3	6.2	0.002	0.03	1.39	5.8	1.7	0.5	31.7	0.01	0.04	0.7
7039		0.97	30.2	770	3.2	3.5	0.001	<0.01	0.45	4.7	0.5	0.3	17.8	<0.01	0.03	1.9
7040		1.29	89.7	740	5.3	5.6	0.002	0.05	1.36	10.5	2.2	0.4	50.5	0.01	0.04	0.7



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**CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
7001		0.066	0.07	1.25	47	0.10	6.91	93	1.0
7002		0.005	0.21	1.42	26	0.05	9.37	233	3.0
7003		<0.005	0.27	1.88	22	<0.05	10.15	249	5.6
7004		<0.005	0.30	2.36	23	<0.05	11.35	266	4.7
7005		0.032	0.11	2.56	34	1.23	11.00	147	1.9
7006		0.045	0.08	0.73	38	0.09	7.50	97	<0.5
7007		0.027	0.08	1.42	31	0.71	6.91	130	1.7
7008		0.023	0.07	1.98	31	0.06	7.75	120	1.9
7009		0.046	0.09	0.63	47	1.71	7.77	111	1.7
7010		0.017	0.11	1.45	29	0.07	9.19	151	2.1
7011		0.119	0.08	4.37	78	0.18	10.05	104	1.5
7012		0.122	0.09	4.51	84	0.34	10.30	111	1.6
7013		0.068	0.08	1.52	54	0.11	7.80	118	1.2
7014		0.075	0.06	0.95	60	0.11	6.75	104	1.1
7015		0.147	0.05	0.37	95	0.18	7.17	73	1.8
7016		0.146	0.03	0.32	91	0.15	6.17	61	2.2
7017		0.153	0.04	0.33	97	0.18	6.83	70	2.4
7018		0.122	0.07	0.52	109	0.26	8.70	89	1.4
7019		0.142	0.05	0.38	104	0.18	6.24	74	1.5
7020		0.177	0.09	0.37	88	0.29	9.84	73	4.2
7021		0.140	0.06	0.26	60	7.33	7.42	43	6.9
7022		0.074	0.36	1.02	85	0.53	20.5	133	0.9
7023		0.107	0.11	0.33	92	0.43	12.85	88	2.3
7024		0.088	0.09	0.81	71	0.32	11.20	84	2.1
7025		0.048	0.13	0.56	75	0.48	14.65	94	1.4
7026		0.087	0.13	0.36	99	0.45	17.10	94	2.3
7027		0.121	0.05	0.44	76	0.16	5.88	69	1.7
7028		0.128	0.08	5.37	72	2.10	10.45	77	2.5
7029		0.054	0.09	1.33	63	0.36	6.22	94	1.7
7030		0.085	0.13	2.28	45	0.37	11.10	136	5.1
7031		0.053	0.15	2.11	64	0.62	7.90	149	0.6
7032		0.055	0.13	2.00	63	2.29	8.04	145	0.5
7033		0.095	0.06	0.88	65	0.45	8.02	58	1.2
7034		0.083	0.06	0.66	61	0.23	10.15	59	1.2
7035		0.103	0.05	1.14	71	2.36	7.17	72	1.7
7036		0.108	0.03	0.62	68	18.60	6.52	52	1.8
7037		0.124	0.06	0.58	65	0.13	8.29	52	1.7
7038		0.068	0.08	0.95	63	0.22	10.40	98	0.7
7039		0.096	0.04	0.38	54	0.18	7.59	38	1.7
7040		0.093	0.08	1.47	64	0.22	20.4	70	1.2





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<b>CERTIFICATE OF ANALYSIS</b> <b>VA13166703</b>
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
7041		0.08	0.003	0.21	1.67	4.5	<0.2	<10	100	0.24	0.06	0.91	0.16	10.00	8.9	29
7042		0.08	0.720	2.21	0.68	30.7	0.6	<10	90	0.27	0.75	1.82	0.70	7.54	9.9	30
7043		0.94	0.006	0.06	1.70	20.9	<0.2	<10	150	0.27	0.05	0.92	0.15	11.20	11.5	51
7044		0.92	0.292	0.55	1.89	306	0.3	<10	160	0.55	0.11	0.60	0.24	21.3	18.4	52
7045		0.94	0.337	0.33	2.11	372	0.3	<10	230	0.73	0.15	0.85	0.34	26.2	18.1	55
7046		1.48	0.028	0.19	1.98	27.3	<0.2	<10	170	0.39	0.09	0.60	0.28	21.8	17.9	54
7047		0.54	0.613	0.14	2.06	37.7	<0.2	<10	130	0.46	0.11	0.54	0.37	25.8	20.0	63
7048		0.72	0.117	0.34	2.16	136.5	0.5	<10	160	0.46	0.11	0.60	0.53	24.2	22.4	56
7049		1.58	0.033	0.21	1.42	26.3	0.4	<10	110	0.21	0.04	0.53	0.11	17.65	13.9	40
7050		0.98	0.059	0.17	2.19	55.7	<0.2	<10	210	0.56	0.12	0.75	0.36	25.4	21.3	60
7051		0.84	0.009	0.27	1.76	5.9	<0.2	<10	70	0.45	0.15	0.57	1.24	23.0	17.4	42
7052		0.50	0.078	0.23	1.73	5.5	<0.2	<10	70	0.43	0.15	0.55	1.57	25.7	19.2	40
7053		1.04	0.012	0.14	2.33	12.2	<0.2	<10	60	0.37	0.09	0.89	0.47	13.25	26.1	102
7054		0.76	0.020	0.28	2.13	25.1	<0.2	<10	50	0.44	0.16	0.60	1.22	17.55	31.6	151
7055		1.06	0.059	0.10	2.64	27.5	<0.2	<10	50	0.40	0.07	0.79	0.24	14.50	37.4	116
7056		0.74	0.247	0.22	3.26	94.8	0.2	<10	140	0.65	0.10	1.05	0.31	19.45	45.4	131
7057		0.98	0.015	0.15	2.50	11.3	<0.2	<10	60	0.27	0.08	0.92	0.37	12.10	30.7	129
7058		0.60	0.013	0.16	2.65	11.4	<0.2	<10	80	0.45	0.12	0.70	0.72	13.85	34.9	224
7059		0.68	0.133	0.14	1.05	64.3	<0.2	<10	210	0.29	0.34	0.24	0.17	36.9	29.8	36
7060		0.94	0.132	0.13	1.21	60.1	<0.2	<10	210	0.32	0.29	0.27	0.16	32.0	30.3	39
7061		0.08	0.001	0.25	1.65	3.6	<0.2	<10	100	0.23	0.06	0.94	0.15	9.97	7.0	29
7062		0.08	0.731	2.17	0.65	24.3	0.6	<10	100	0.19	0.72	1.84	0.61	7.40	9.3	30
7063		0.70	0.092	0.07	1.02	38.4	<0.2	<10	170	0.25	0.20	0.25	0.11	30.3	25.8	29
7064		1.08	0.048	0.03	1.70	49.3	<0.2	<10	180	0.36	0.08	0.55	0.08	19.70	26.9	42
7065		0.62	0.036	0.09	1.92	25.4	<0.2	<10	200	0.46	0.13	0.70	0.14	21.3	24.1	59
7066		0.48	0.014	0.09	2.02	9.4	<0.2	<10	50	0.24	0.06	0.88	0.41	12.75	21.0	118
7067		1.00	0.005	0.06	1.79	4.5	<0.2	<10	70	0.26	0.04	1.10	0.67	14.25	15.9	89
7068		0.76	0.009	0.22	2.13	2.2	<0.2	<10	90	0.38	0.07	1.51	1.15	9.76	14.9	68
7069		0.50	0.007	0.25	2.46	5.4	<0.2	<10	90	0.48	0.09	1.08	0.43	10.95	17.7	93
7070		0.52	0.010	0.54	2.00	6.9	<0.2	<10	100	0.95	0.17	0.52	0.92	24.4	15.6	139
7071		0.46	0.031	0.08	1.12	6.4	<0.2	10	80	0.31	0.04	0.45	1.02	8.70	99.9	797
7072		0.36	0.003	0.06	1.09	5.8	<0.2	10	70	0.27	0.04	0.40	0.84	9.12	89.4	772
7073		0.66	0.016	0.28	1.28	18.3	<0.2	<10	80	0.42	0.21	0.40	1.09	22.8	18.6	68
7074		0.64	0.012	0.28	1.32	17.1	<0.2	<10	80	0.48	0.23	0.44	1.11	22.3	17.6	49
7075		0.60	0.008	0.11	2.09	9.4	<0.2	<10	260	0.44	0.07	1.06	0.22	15.30	18.5	64
7076		0.86	0.009	0.19	1.72	10.4	<0.2	<10	110	0.38	0.16	0.48	0.55	22.8	17.1	50
7077		0.92	0.095	0.15	1.93	16.4	<0.2	<10	190	0.43	0.12	0.67	0.37	20.7	20.9	58
7078		1.08	0.014	0.14	1.83	14.9	<0.2	<10	130	0.41	0.12	0.64	0.40	21.5	22.2	59
7079		0.70	0.017	0.59	2.12	13.6	<0.2	<10	170	0.71	0.18	0.73	1.80	21.5	17.4	81
7080		0.86	0.039	0.09	2.87	63.9	<0.2	<10	90	0.57	0.08	0.99	0.16	16.85	22.2	129

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





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**CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	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	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7041		0.21	20.4	570	4.2	5.0	0.001	0.04	0.37	6.0	0.5	0.6	46.4	<0.01	0.03	0.9
7042		0.68	17.0	610	24.7	15.1	0.011	2.71	28.8	4.0	8.5	4.9	65.4	0.01	0.38	1.4
7043		1.33	28.6	430	3.3	3.1	<0.001	0.01	0.38	5.6	0.6	0.4	21.8	0.01	0.02	0.7
7044		1.33	50.2	790	7.9	8.3	0.002	0.04	2.89	9.3	1.5	0.4	17.5	0.01	0.05	0.8
7045		2.29	43.7	990	9.9	12.7	0.001	0.06	1.75	8.0	1.9	0.8	28.7	0.01	0.06	0.7
7046		1.42	43.5	760	13.1	10.2	0.001	0.02	0.74	5.1	1.1	0.4	22.8	<0.01	0.03	0.9
7047		1.53	55.4	680	11.8	9.5	<0.001	0.02	0.93	5.8	1.4	0.4	20.9	<0.01	0.04	1.4
7048		1.17	49.4	980	10.0	8.9	0.003	0.06	1.12	8.4	2.1	0.4	22.5	<0.01	0.04	0.8
7049		1.02	26.2	690	3.7	4.2	0.001	<0.01	0.41	4.3	0.5	0.2	17.5	<0.01	0.01	1.4
7050		1.68	51.7	820	11.9	12.2	0.001	0.03	0.78	8.1	1.2	0.5	28.2	<0.01	0.04	0.9
7051		0.90	53.5	640	10.2	3.7	0.003	0.01	0.94	3.7	1.5	0.3	31.7	<0.01	0.07	2.0
7052		0.80	56.3	630	10.2	3.5	0.004	<0.01	0.98	3.5	1.5	0.2	29.5	<0.01	0.06	2.4
7053		1.08	59.5	540	6.6	3.3	0.002	0.03	0.71	6.0	1.6	0.3	25.2	<0.01	0.10	0.8
7054		0.69	102.5	570	11.5	3.2	<0.001	<0.01	3.42	5.9	1.9	0.2	22.8	<0.01	0.09	2.3
7055		1.18	66.3	560	5.4	3.3	0.001	<0.01	0.57	11.3	1.1	0.4	32.0	<0.01	0.11	0.9
7056		2.27	72.3	720	7.4	4.7	<0.001	0.04	0.77	13.1	1.4	0.7	50.2	<0.01	0.10	0.5
7057		0.89	68.7	470	5.8	2.6	0.002	0.02	0.63	6.4	1.2	0.3	26.1	<0.01	0.10	0.9
7058		0.84	113.0	470	10.2	4.9	0.003	0.01	0.90	7.5	1.5	0.3	20.0	<0.01	0.08	1.2
7059		0.23	81.7	510	16.7	3.7	<0.001	0.03	2.36	9.3	1.3	0.2	11.7	<0.01	0.16	2.6
7060		0.24	75.8	500	12.5	4.4	<0.001	0.04	2.15	11.2	1.4	0.2	12.4	<0.01	0.13	2.3
7061		0.23	19.7	540	3.7	4.4	0.001	0.03	0.31	4.9	0.4	0.5	47.0	<0.01	0.03	0.9
7062		0.53	16.5	590	23.9	15.1	0.013	2.53	26.9	3.2	10.4	4.0	64.0	<0.01	0.31	1.5
7063		0.24	61.5	430	9.0	3.5	0.001	0.02	1.62	9.2	0.8	0.2	9.9	<0.01	0.10	1.9
7064		0.40	45.5	610	5.0	4.3	0.001	0.01	1.27	11.1	1.1	0.2	12.4	<0.01	0.02	0.9
7065		0.84	52.4	680	7.0	6.1	0.001	0.06	1.27	13.1	2.2	0.4	20.5	<0.01	0.03	0.7
7066		0.58	80.5	440	4.4	2.3	0.002	0.03	0.72	5.2	1.1	0.9	25.5	<0.01	0.06	1.2
7067		1.15	56.3	620	2.8	2.4	0.003	0.01	0.40	4.6	1.4	0.2	38.6	<0.01	0.01	0.9
7068		1.13	42.1	440	6.6	3.3	0.001	0.04	0.41	9.0	1.9	0.2	49.8	<0.01	0.02	0.8
7069		1.43	49.3	530	6.7	5.3	0.005	0.04	0.46	6.7	1.9	0.4	37.3	<0.01	0.04	0.4
7070		1.02	102.5	720	12.1	6.9	0.002	0.02	1.04	4.9	2.6	0.4	34.5	<0.01	0.03	0.9
7071		0.30	850	270	3.3	1.9	0.003	0.01	0.65	16.2	1.8	<0.2	26.7	<0.01	0.02	0.8
7072		0.27	764	240	3.2	1.7	0.002	<0.01	0.63	15.6	1.5	<0.2	23.5	<0.01	0.02	0.9
7073		0.93	89.3	680	12.8	3.1	0.002	0.01	2.80	4.5	3.2	0.2	20.6	<0.01	0.09	2.3
7074		1.02	78.1	670	14.4	3.6	0.003	<0.01	2.79	4.8	3.2	0.2	20.9	<0.01	0.10	2.6
7075		1.86	45.9	620	4.3	5.9	0.003	0.02	0.59	11.3	1.4	0.4	27.7	<0.01	0.01	0.6
7076		0.65	59.4	620	9.6	3.1	0.003	0.01	1.15	5.8	1.5	0.2	15.5	<0.01	0.05	2.7
7077		1.43	58.6	690	7.5	4.2	0.002	0.01	1.12	9.2	1.2	0.3	19.8	<0.01	0.04	1.7
7078		1.36	61.9	650	7.7	3.8	0.002	0.02	1.14	8.1	1.7	0.3	20.7	<0.01	0.04	1.7
7079		0.83	65.2	880	12.1	10.6	0.004	0.02	1.45	5.3	2.4	0.4	49.4	<0.01	0.05	0.7
7080		1.74	61.4	550	5.8	4.5	<0.001	0.01	4.46	11.7	1.6	0.6	27.8	<0.01	0.03	0.6



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**CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
7041		0.142	0.06	0.28	60	7.70	7.61	43	6.9
7042		0.041	0.28	0.54	41	1.70	4.74	101	2.1
7043		0.129	0.04	0.34	68	0.17	8.57	48	1.9
7044		0.079	0.24	0.74	63	0.42	15.45	112	0.8
7045		0.100	0.12	0.99	78	0.24	16.85	117	1.6
7046		0.124	0.17	0.72	75	0.17	9.71	95	1.0
7047		0.159	0.13	1.14	88	0.13	10.85	110	1.1
7048		0.124	0.15	3.40	82	0.20	17.55	93	0.7
7049		0.147	0.05	0.41	60	0.14	8.63	47	1.4
7050		0.117	0.15	1.11	84	0.17	12.45	111	1.0
7051		0.052	0.08	1.73	41	0.09	7.96	114	1.6
7052		0.052	0.09	1.59	41	0.08	7.44	122	1.5
7053		0.120	0.06	0.40	79	0.17	7.05	75	1.1
7054		0.053	0.14	0.63	63	0.14	8.29	135	1.5
7055		0.153	0.05	0.47	93	0.16	7.47	68	1.5
7056		0.162	0.06	0.63	115	0.18	10.60	92	1.7
7057		0.136	0.04	0.31	79	0.12	6.42	68	1.5
7058		0.063	0.10	0.38	80	0.76	6.51	137	1.1
7059		0.032	0.18	0.55	63	2.45	11.90	124	1.4
7060		0.037	0.17	0.48	73	0.63	13.60	116	1.2
7061		0.158	0.05	0.28	59	6.81	8.15	42	5.9
7062		0.042	0.25	0.49	39	1.22	4.17	97	1.6
7063		0.037	0.11	0.35	64	0.47	10.45	100	1.1
7064		0.050	0.08	0.26	86	0.28	16.05	83	1.2
7065		0.039	0.16	0.38	87	0.38	21.0	100	1.0
7066		0.115	0.04	0.56	69	1.73	6.04	66	1.6
7067		0.130	0.05	0.84	64	0.59	7.28	77	2.1
7068		0.144	0.07	0.45	62	0.10	8.49	78	2.3
7069		0.126	0.09	0.84	81	0.10	8.37	78	1.1
7070		0.069	0.11	1.74	52	0.09	16.50	110	1.0
7071		0.051	0.07	1.18	55	0.08	4.04	52	2.1
7072		0.052	0.06	0.99	54	0.07	3.56	50	2.2
7073		0.041	0.08	0.87	42	0.10	11.40	137	1.3
7074		0.044	0.07	0.79	42	0.09	12.55	145	1.3
7075		0.154	0.08	0.68	104	0.20	20.4	86	2.0
7076		0.084	0.07	0.52	62	0.10	11.25	108	1.9
7077		0.104	0.09	0.55	90	0.21	13.75	96	1.6
7078		0.101	0.10	0.59	81	0.17	12.85	91	1.7
7079		0.043	0.13	2.47	52	0.64	11.05	152	0.6
7080		0.146	0.06	0.42	106	0.44	8.43	65	1.5

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



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**CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
7081		0.08	0.003	0.20	1.70	3.7	<0.2	<10	100	0.23	0.05	0.95	0.15	9.95	7.0	29
7082		0.08	0.683	2.32	0.63	29.5	0.9	<10	110	0.21	0.88	1.85	0.73	7.83	9.4	30
7083		0.48	0.018	0.07	2.58	12.7	<0.2	<10	50	0.35	0.04	1.23	0.17	10.20	22.2	89
7084		0.62	0.003	0.10	2.40	7.2	<0.2	<10	100	0.45	0.09	0.92	0.39	21.3	23.0	74
7085		0.64	0.003	0.10	2.62	4.1	<0.2	<10	40	0.30	0.06	0.91	0.25	12.10	20.5	82
7086		0.44	0.008	0.40	2.78	11.6	<0.2	<10	80	0.69	0.35	0.45	1.53	19.45	23.0	62
7087		0.44	0.011	0.33	2.66	9.8	<0.2	<10	90	0.67	0.25	0.59	1.98	17.55	21.8	71
7088		0.86	0.002	0.09	1.99	8.8	<0.2	<10	50	0.29	0.05	0.82	0.19	13.95	14.7	63
7089		0.96	0.026	0.07	2.00	10.7	<0.2	<10	60	0.28	0.06	0.85	0.19	15.50	13.9	67
7090		0.62	0.003	0.08	1.93	6.2	<0.2	<10	80	0.33	0.06	0.90	0.25	14.65	13.0	61
7091		0.48	0.014	0.29	2.51	15.9	<0.2	<10	100	0.51	0.13	0.81	1.75	19.30	30.2	139
7092		0.42	0.018	0.35	2.27	15.5	<0.2	<10	90	0.48	0.14	0.75	1.96	18.60	28.6	131
7093		0.62	0.003	0.15	2.44	5.0	<0.2	<10	40	0.31	0.10	0.83	0.43	14.35	18.7	69
7094		0.52	0.005	0.16	2.69	21.4	<0.2	<10	80	0.60	0.16	0.93	0.61	21.4	25.2	69
7095		0.50	0.049	0.10	1.54	52.7	<0.2	<10	170	0.30	0.08	0.65	0.16	17.90	14.3	60
7096		0.78	0.048	0.15	1.61	77.5	<0.2	<10	200	0.30	0.08	0.57	0.16	17.95	16.1	57
7097		0.94	0.020	0.09	1.56	53.2	<0.2	<10	150	0.30	0.06	0.57	0.31	18.85	16.2	49
7098		0.64	0.042	0.11	1.36	32.6	<0.2	<10	120	0.27	0.06	0.50	0.24	16.25	14.4	45
7099		0.72	0.038	0.08	1.52	37.7	<0.2	<10	140	0.26	0.06	0.52	0.27	17.40	16.3	50
7100		0.54	0.054	0.12	1.76	57.1	<0.2	<10	180	0.35	0.09	0.55	0.46	20.5	20.6	55
7101		0.84	0.027	0.23	1.45	243	<0.2	<10	410	0.42	0.11	0.66	2.40	28.1	35.6	59
7102		0.64	0.042	0.17	1.42	54.4	<0.2	<10	180	0.40	0.10	0.76	0.59	18.20	13.0	49
7103		0.86	0.011	0.12	1.44	22.6	<0.2	<10	210	0.39	0.08	0.75	0.52	17.20	12.5	49
7104		0.96	0.006	0.06	0.95	9.7	<0.2	<10	130	0.24	0.06	0.47	0.16	18.55	7.9	33
7105		0.82	0.005	0.03	1.08	8.7	<0.2	<10	100	0.16	0.03	0.44	0.10	15.00	9.0	41
7106		0.78	0.006	0.06	1.02	9.9	<0.2	<10	130	0.23	0.07	0.56	0.18	17.25	9.5	37
7107		1.24	0.004	0.04	0.94	8.0	<0.2	<10	90	0.21	0.04	0.47	0.08	17.20	8.1	34
7108		0.66	0.037	0.25	1.87	5.2	<0.2	<10	90	0.44	0.12	1.01	1.07	18.45	15.7	41
7109		0.82	0.009	0.49	1.36	10.5	<0.2	<10	50	0.52	0.23	0.47	1.24	27.4	13.9	22
7110		1.32	0.011	0.64	1.13	17.9	<0.2	<10	60	0.64	0.32	1.39	3.06	22.0	16.9	18
7111		0.68	0.006	0.50	1.79	11.7	0.3	<10	60	0.44	0.18	0.90	0.73	21.8	17.1	36
7112		1.04	0.005	0.36	1.80	10.9	<0.2	<10	50	0.43	0.15	0.87	0.68	20.8	16.7	36
7113		0.72	0.008	0.37	1.72	13.3	<0.2	<10	130	0.60	0.21	0.62	2.25	30.0	23.5	38
7114		0.90	0.003	0.22	1.54	6.8	<0.2	<10	90	0.39	0.13	0.50	0.81	26.2	12.3	33
7115		0.78	0.002	0.16	1.32	4.0	<0.2	<10	80	0.40	0.11	0.55	0.80	27.3	10.7	26
7116		0.82	0.002	0.25	1.56	12.0	<0.2	<10	60	0.34	0.12	0.48	0.45	19.80	9.9	48
7117		0.78	0.001	0.14	1.59	3.9	<0.2	<10	160	0.30	0.07	0.79	0.86	13.80	11.7	38
7118		0.64	0.004	0.27	2.03	8.5	<0.2	<10	90	0.43	0.14	0.70	1.04	18.50	17.1	48
7119		1.54	0.003	0.20	2.05	6.6	<0.2	<10	60	0.37	0.11	0.79	0.72	18.95	15.8	49
7120		0.82	0.003	0.07	1.73	9.3	<0.2	10	40	0.21	0.06	0.60	0.64	8.64	27.8	174



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**CERTIFICATE OF ANALYSIS VA13166703**

Method Analyte Units LOR	ME-MS41 Cs ppm	ME-MS41 Cu ppm	ME-MS41 Fe %	ME-MS41 Ga ppm	ME-MS41 Ge ppm	ME-MS41 Hf ppm	ME-MS41 Hg ppm	ME-MS41 In ppm	ME-MS41 K %	ME-MS41 La ppm	ME-MS41 Li ppm	ME-MS41 Mg %	ME-MS41 Mn ppm	ME-MS41 Mo ppm	ME-MS41 Na %
Sample Description	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	0.01
7081	0.36	20.9	2.31	5.07	0.08	0.27	0.02	0.024	0.14	4.1	10.4	0.73	370	1.98	0.09
7082	1.25	6890	6.34	2.96	0.16	0.08	2.17	0.182	0.28	3.6	11.9	0.86	873	9.16	0.04
7083	0.85	59.4	3.56	7.62	0.13	0.12	0.05	0.027	0.03	5.3	23.7	1.95	474	0.42	<0.01
7084	0.88	55.0	3.70	6.78	0.10	0.08	0.05	0.027	0.04	9.1	24.2	1.56	1300	1.88	<0.01
7085	0.84	44.0	4.03	7.31	0.17	0.12	0.02	0.021	0.03	5.6	31.6	2.21	723	0.83	<0.01
7086	1.39	61.9	4.87	7.21	0.16	0.11	0.09	0.033	0.04	9.4	65.3	2.16	921	5.42	<0.01
7087	1.25	66.6	4.57	7.22	0.14	0.08	0.11	0.037	0.04	8.3	48.7	1.98	952	5.73	<0.01
7088	1.12	25.3	2.88	6.17	0.09	0.06	0.02	0.019	0.04	6.6	22.7	1.41	464	0.66	<0.01
7089	1.13	28.2	3.05	6.63	0.07	0.04	0.02	0.020	0.03	7.3	19.8	1.33	522	0.91	<0.01
7090	0.82	26.5	2.81	5.51	0.06	0.04	0.03	0.018	0.03	7.1	17.8	1.23	626	0.77	<0.01
7091	1.68	108.5	4.14	6.60	0.06	<0.02	0.08	0.027	0.05	9.9	24.1	2.05	884	4.46	0.01
7092	1.58	103.0	3.90	5.77	0.11	0.04	0.08	0.030	0.04	9.5	25.7	1.90	789	4.50	0.01
7093	0.69	43.9	3.90	6.66	0.17	0.10	0.03	0.023	0.03	6.9	32.3	1.98	669	1.45	<0.01
7094	1.81	93.6	4.46	7.45	0.12	0.05	0.06	0.033	0.05	10.5	29.0	1.77	982	4.63	0.01
7095	1.23	24.7	2.94	4.45	0.09	0.05	0.04	0.023	0.04	9.0	17.0	0.83	821	0.95	<0.01
7096	1.91	30.5	3.10	4.63	0.08	0.06	0.05	0.024	0.04	9.3	17.7	0.86	944	0.96	<0.01
7097	2.37	27.2	3.15	4.45	0.09	0.04	0.02	0.021	0.03	9.1	17.9	0.92	1040	0.93	<0.01
7098	1.75	35.8	2.77	3.93	0.09	0.05	0.02	0.019	0.03	8.4	15.6	0.88	588	0.54	0.01
7099	1.52	35.7	3.25	4.45	0.10	0.05	0.02	0.022	0.03	8.0	17.6	1.05	725	0.53	<0.01
7100	2.17	49.6	3.87	5.16	0.11	0.06	0.02	0.027	0.04	9.6	21.1	1.16	1040	0.79	<0.01
7101	2.81	35.3	8.99	3.92	0.17	0.07	0.05	0.022	0.04	13.9	15.1	0.72	4860	5.19	<0.01
7102	4.07	43.5	2.96	3.53	0.09	0.04	0.06	0.024	0.04	9.7	15.6	0.72	938	1.07	<0.01
7103	5.65	38.4	2.74	3.76	0.08	0.04	0.05	0.020	0.05	9.7	19.1	0.83	562	0.86	<0.01
7104	1.87	25.2	1.64	3.00	0.07	0.03	0.02	0.014	0.03	9.4	11.2	0.50	447	0.48	<0.01
7105	1.44	9.8	2.03	2.95	0.07	0.04	0.01	0.011	0.02	7.5	13.0	0.75	291	0.40	<0.01
7106	1.10	18.1	1.90	2.98	0.07	0.05	0.03	0.013	0.03	8.9	11.6	0.62	510	0.56	<0.01
7107	0.57	12.2	1.59	2.94	0.07	0.07	0.01	0.011	0.02	8.4	11.0	0.61	280	0.29	0.01
7108	0.82	33.3	3.23	5.19	0.10	0.08	0.06	0.025	0.04	9.1	23.3	1.23	971	1.70	0.01
7109	1.20	43.7	3.19	3.71	0.12	0.06	0.10	0.027	0.04	13.9	31.9	0.94	477	8.63	0.01
7110	1.50	61.9	3.47	2.95	0.12	0.11	0.15	0.035	0.03	10.9	28.9	0.73	659	16.65	<0.01
7111	0.87	56.8	3.41	4.87	0.12	0.07	0.09	0.025	0.04	11.0	23.3	1.23	793	3.04	0.01
7112	0.85	54.8	3.38	4.73	0.12	0.06	0.07	0.025	0.04	10.5	23.3	1.24	787	2.63	0.01
7113	1.62	55.6	4.67	5.54	0.15	0.09	0.07	0.032	0.05	15.0	31.7	1.25	872	7.83	0.02
7114	0.68	27.0	2.69	4.43	0.09	0.06	0.05	0.020	0.03	13.2	26.6	0.89	892	4.99	<0.01
7115	0.94	19.0	2.56	4.20	0.09	0.07	0.03	0.020	0.04	13.2	30.6	0.78	851	4.27	0.01
7116	3.23	22.5	2.93	5.17	0.09	0.04	0.03	0.020	0.04	10.2	29.6	0.96	1140	3.76	<0.01
7117	0.82	13.0	2.93	4.51	0.08	0.07	0.05	0.016	0.02	6.9	23.3	0.92	1580	3.34	<0.01
7118	0.52	52.0	3.63	4.96	0.09	0.08	0.03	0.020	0.03	9.6	30.7	1.39	879	4.80	<0.01
7119	0.48	45.7	3.38	5.00	0.09	0.06	0.03	0.020	0.03	10.2	27.0	1.34	598	3.42	<0.01
7120	1.27	25.4	3.59	3.59	0.08	0.05	0.01	0.013	0.02	4.0	18.2	4.34	462	1.51	<0.01

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**CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
7081		0.21	19.9	560	3.6	4.4	<0.001	0.03	0.33	4.9	0.5	0.5	47.6	<0.01	0.02	0.9
7082		0.73	17.0	600	24.1	16.9	0.012	2.62	28.8	3.8	11.3	5.4	72.0	0.01	0.37	1.5
7083		1.68	48.0	510	3.7	4.1	0.001	0.03	0.39	10.9	1.2	0.4	38.6	0.01	0.02	0.7
7084		1.77	40.6	670	6.8	5.6	0.002	0.03	0.47	8.8	1.1	0.5	40.3	0.01	0.04	1.4
7085		0.68	39.5	640	4.8	2.5	0.001	0.04	0.41	9.0	0.8	0.3	37.6	<0.01	0.03	1.2
7086		0.21	73.5	990	21.0	3.1	0.004	0.10	1.89	4.5	2.8	0.3	46.6	0.01	0.10	6.1
7087		0.64	66.2	850	16.4	4.2	0.002	0.03	1.79	6.3	2.5	0.4	56.6	0.01	0.08	3.5
7088		1.39	27.3	720	4.3	4.8	0.001	0.02	0.22	5.8	0.8	0.4	40.1	0.01	0.02	1.0
7089		1.28	29.6	690	4.3	4.4	0.001	0.02	0.24	6.0	0.7	0.7	40.7	<0.01	0.02	1.1
7090		1.16	28.0	690	4.0	5.1	0.001	0.03	0.28	5.5	1.4	0.6	38.6	<0.01	0.01	1.3
7091		1.27	73.7	810	10.1	6.6	0.004	0.04	1.43	6.8	2.2	0.6	55.0	<0.01	0.06	0.9
7092		1.58	70.3	800	10.8	6.5	0.004	0.04	1.60	6.7	3.2	0.4	60.2	0.01	0.07	1.0
7093		0.59	40.2	750	6.9	2.8	0.001	0.05	0.60	7.5	1.1	0.3	35.9	<0.01	0.04	1.9
7094		1.95	43.8	830	12.4	6.6	0.002	0.03	0.86	8.6	1.5	0.5	54.9	0.01	0.05	1.4
7095		1.38	40.4	740	5.3	8.1	0.001	0.03	2.49	6.0	1.1	0.4	22.6	0.01	0.02	1.1
7096		1.37	47.1	750	5.9	8.7	0.002	0.03	2.75	7.0	1.1	0.4	20.0	0.01	0.02	1.3
7097		1.42	33.6	710	6.0	7.4	0.001	0.02	0.59	5.2	1.0	0.4	20.9	0.01	0.02	1.2
7098		1.20	31.5	660	6.0	5.3	<0.001	0.02	0.64	5.1	1.0	0.3	17.9	<0.01	0.03	1.3
7099		1.16	34.2	630	6.7	5.0	<0.001	0.02	0.75	5.4	0.7	0.4	17.4	0.01	0.03	1.6
7100		1.26	41.7	730	9.1	6.1	0.001	0.04	1.01	6.5	0.9	0.4	19.7	0.01	0.04	1.8
7101		1.46	56.2	700	4.7	5.4	0.005	0.03	1.35	6.4	1.8	0.3	25.3	0.02	0.05	1.3
7102		1.39	39.5	1010	6.9	6.6	0.001	0.11	1.27	4.3	2.8	0.4	30.0	0.01	0.04	0.5
7103		1.41	38.9	850	7.4	7.7	0.002	0.05	0.56	4.3	1.8	0.4	23.7	0.01	0.03	0.8
7104		1.55	23.1	640	4.0	6.1	<0.001	0.02	0.26	2.9	0.6	0.4	15.4	<0.01	0.01	1.2
7105		1.05	26.1	630	2.3	3.5	<0.001	0.02	0.23	3.1	0.4	0.3	14.1	<0.01	0.01	1.6
7106		1.20	26.0	680	3.7	5.7	0.001	0.03	0.33	3.1	0.7	0.3	18.1	<0.01	0.02	1.3
7107		1.53	22.5	710	2.1	2.3	<0.001	0.01	0.28	3.2	0.4	0.3	13.5	0.01	0.01	1.7
7108		2.12	39.9	700	9.4	4.9	0.002	0.04	0.67	5.4	1.8	0.5	50.9	0.01	0.03	1.6
7109		0.40	51.1	890	14.9	4.3	0.001	0.02	2.34	2.9	2.8	0.2	37.3	<0.01	0.07	3.7
7110		0.12	65.4	940	20.9	2.6	0.004	0.05	3.97	3.3	5.2	0.2	61.4	0.01	0.11	5.3
7111		1.19	42.6	870	12.0	3.7	0.002	0.07	1.16	5.7	1.8	0.3	45.9	0.01	0.05	2.8
7112		1.13	40.9	820	11.0	3.6	0.002	0.06	1.08	5.5	1.5	0.2	42.5	0.01	0.04	2.7
7113		1.01	64.0	1340	16.9	5.0	0.002	0.03	1.90	3.5	2.2	0.5	51.1	0.01	0.06	3.6
7114		1.10	36.0	930	8.8	4.7	0.001	0.01	0.64	3.2	0.9	0.3	28.2	0.01	0.03	2.0
7115		2.82	32.7	1070	7.6	5.7	0.003	0.01	0.53	2.6	1.1	0.4	34.3	0.01	0.03	2.3
7116		1.10	33.7	700	8.1	5.2	0.003	0.02	0.51	2.9	1.1	0.3	30.4	0.01	0.05	1.4
7117		1.26	28.6	670	5.2	4.9	0.004	0.03	0.24	3.4	1.2	0.3	30.2	0.01	0.02	1.3
7118		0.54	55.8	890	10.5	2.6	0.002	0.04	1.02	4.1	1.8	0.2	30.6	<0.01	0.05	2.6
7119		0.67	48.3	770	8.0	2.9	0.002	0.03	0.67	4.4	1.2	0.2	29.5	<0.01	0.03	2.1
7120		0.45	123.0	320	3.7	2.2	0.001	0.02	0.51	4.0	0.8	0.2	18.5	<0.01	0.03	1.0

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



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To: CHINA MINERALS CORP. LTD.  
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 VANCOUVER BC V6E 3V6

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**CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
7081		0.159	0.05	0.29	61	6.52	8.34	43	5.8
7082		0.040	0.31	0.49	39	1.63	5.27	98	2.0
7083		0.163	0.04	0.83	107	0.18	8.74	53	3.6
7084		0.131	0.08	0.70	93	0.15	9.35	65	2.4
7085		0.139	0.03	0.40	101	0.08	7.25	66	3.8
7086		0.022	0.13	1.21	55	<0.05	11.30	178	4.3
7087		0.062	0.17	1.67	76	0.06	10.55	182	2.3
7088		0.122	0.04	0.68	83	0.09	6.73	58	1.9
7089		0.120	0.06	0.77	89	0.10	6.96	61	1.9
7090		0.106	0.04	5.22	77	0.09	6.71	63	1.6
7091		0.076	0.16	1.46	82	0.37	7.67	141	0.7
7092		0.069	0.18	1.54	72	1.72	8.32	148	1.0
7093		0.115	0.04	0.49	87	0.09	7.76	78	3.4
7094		0.095	0.09	2.26	97	0.14	9.42	105	1.4
7095		0.101	0.08	0.71	64	0.20	9.33	60	1.3
7096		0.102	0.16	0.86	63	0.21	11.90	58	1.4
7097		0.115	0.08	0.67	65	0.19	8.57	73	1.0
7098		0.111	0.05	0.64	58	0.20	8.62	67	1.1
7099		0.141	0.05	0.41	68	0.24	8.13	75	1.2
7100		0.130	0.08	0.46	75	0.23	10.05	108	1.4
7101		0.081	0.28	1.78	65	0.34	13.40	114	1.8
7102		0.068	0.08	1.14	46	0.19	9.86	132	0.9
7103		0.078	0.07	0.74	47	1.52	9.39	178	0.8
7104		0.082	0.06	0.82	34	0.30	6.96	41	0.8
7105		0.107	0.04	0.44	40	0.14	5.69	51	1.0
7106		0.082	0.06	0.86	38	0.16	6.21	43	1.0
7107		0.105	0.05	0.58	38	0.12	6.78	29	2.1
7108		0.108	0.08	0.88	59	0.09	8.09	120	2.6
7109		0.025	0.10	0.46	33	0.07	8.15	154	2.4
7110		<0.005	0.22	0.94	24	0.05	9.15	226	5.1
7111		0.080	0.08	0.83	60	0.08	8.19	99	2.1
7112		0.080	0.07	0.81	60	0.07	7.69	94	1.9
7113		0.094	0.15	2.18	73	0.07	11.40	192	3.4
7114		0.045	0.09	3.30	47	0.29	8.11	93	1.6
7115		0.069	0.07	2.11	39	0.07	7.76	85	2.1
7116		0.036	0.06	1.53	70	0.07	5.58	75	0.9
7117		0.072	0.09	2.02	53	0.06	5.97	87	1.8
7118		0.073	0.08	1.25	67	0.06	8.10	122	3.0
7119		0.086	0.07	1.29	72	0.06	7.48	102	2.1
7120		0.054	0.04	0.52	60	0.05	3.24	71	1.4





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**CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
7121		0.08	0.001	0.21	1.64	3.8	<0.2	<10	100	0.25	0.05	0.89	0.15	9.07	6.9	30
7122		0.08	0.779	2.13	0.67	24.1	0.5	<10	110	0.24	0.69	1.79	0.61	7.02	9.2	31
7123		1.04	0.001	0.03	1.68	4.4	<0.2	10	40	0.22	0.04	0.68	0.12	9.65	31.6	179
7124		0.92	0.002	0.03	1.66	2.3	<0.2	20	40	0.19	0.04	0.58	0.11	9.83	38.3	195
7125		0.96	0.003	0.10	1.79	3.0	<0.2	<10	70	0.38	0.09	0.56	0.21	14.55	24.1	188
7126		1.02	0.006	0.04	1.73	1.8	<0.2	30	30	0.19	0.05	0.72	0.17	6.48	61.3	263
7127		0.82	0.008	0.04	1.72	2.6	<0.2	30	30	0.18	0.04	0.74	0.21	7.90	51.8	254
7128		0.82	0.007	0.05	1.89	3.1	<0.2	40	30	0.20	0.05	0.71	0.24	8.16	62.2	301
7129		1.48	0.005	0.06	1.65	3.8	<0.2	30	40	0.19	0.04	0.49	0.50	9.52	44.4	242
7130		0.72	0.004	0.13	1.36	15.6	<0.2	<10	130	0.50	0.07	0.49	0.22	23.6	7.0	39
7131		0.60	0.004	0.05	1.02	7.4	<0.2	<10	130	0.35	0.04	0.42	0.25	20.8	5.8	28
7132		0.88	0.003	0.08	1.27	10.7	<0.2	<10	170	0.43	0.06	0.47	0.37	22.1	8.9	34
7133		0.66	0.004	0.09	1.41	20.3	<0.2	<10	270	0.31	0.05	0.55	0.90	21.0	11.7	39
7134		0.90	0.005	0.09	1.45	12.7	<0.2	<10	220	0.43	0.07	0.44	0.39	28.1	12.1	42
7135		0.74	0.002	0.08	1.23	12.5	<0.2	<10	190	0.33	0.05	0.42	0.47	23.7	10.8	36
7136		0.26	0.002	0.16	1.24	4.2	<0.2	<10	150	0.45	0.15	0.92	0.62	28.6	9.5	36
7137		0.82	0.004	0.07	0.71	5.0	<0.2	<10	110	0.22	0.07	0.77	0.26	19.25	4.3	22
7138		0.66	<0.001	0.04	0.70	3.9	<0.2	<10	100	0.21	0.06	0.44	0.22	19.35	4.9	22
7139		1.02	0.001	0.03	0.55	3.7	<0.2	<10	100	0.14	0.05	0.55	0.11	24.0	4.2	21
7140		0.58	0.002	0.08	0.76	10.0	<0.2	<10	190	0.25	0.07	0.78	0.26	16.75	5.9	37
7141		0.08	0.001	0.18	1.67	3.5	<0.2	<10	100	0.24	0.05	0.90	0.15	9.71	6.9	30
7142		0.08	0.691	2.23	0.67	23.8	0.6	<10	110	0.23	0.76	1.80	0.65	7.18	9.3	31
7143		0.70	0.003	0.04	0.80	4.1	<0.2	<10	120	0.25	0.06	0.42	0.22	15.85	6.4	25
7144		0.50	0.007	0.45	1.55	8.9	<0.2	<10	80	0.58	0.25	0.55	1.76	22.1	17.4	30
7145		0.50	0.011	0.46	1.72	13.4	<0.2	<10	130	0.62	0.26	0.66	2.09	27.6	24.6	41
7146		0.68	0.008	0.67	1.84	8.7	<0.2	<10	70	0.66	0.30	0.37	2.02	29.7	19.8	33
7147		0.58	0.011	0.45	1.74	7.9	<0.2	<10	70	0.53	0.25	0.50	2.36	29.6	16.4	32
7148		0.64	0.004	0.22	1.34	4.9	<0.2	<10	70	0.46	0.14	0.41	0.98	30.8	10.2	30
7149		0.70	0.003	0.14	0.88	2.1	<0.2	<10	40	0.27	0.09	0.40	0.50	22.1	4.9	21
7150		0.28	0.008	0.35	2.37	9.0	<0.2	<10	750	0.80	0.20	1.46	1.46	37.4	25.5	72

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**CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	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	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
7121		0.33	20.2	2.22	4.71	0.09	0.23	0.01	0.022	0.13	3.9	9.5	0.70	371	1.90	0.09
7122		0.94	6890	6.29	2.52	0.08	0.07	2.08	0.134	0.28	3.0	9.3	0.84	878	7.25	0.04
7123		3.12	20.0	3.25	3.62	0.09	0.03	0.01	0.012	0.03	4.4	10.5	3.40	662	0.54	<0.01
7124		2.10	16.8	3.60	3.34	0.09	0.03	0.01	0.015	0.02	4.4	12.5	4.92	555	0.45	<0.01
7125		2.98	27.5	2.88	4.03	0.07	0.02	0.02	0.020	0.04	9.1	13.7	1.94	544	0.48	<0.01
7126		1.58	34.8	4.74	3.14	0.12	0.04	0.01	0.016	0.02	3.4	13.4	8.05	796	0.45	<0.01
7127		1.30	30.4	4.61	3.35	0.12	0.05	0.01	0.015	0.02	3.7	15.8	7.42	728	0.53	<0.01
7128		1.09	33.9	5.22	3.54	0.14	0.05	0.01	0.016	0.02	4.2	22.0	9.14	854	0.81	<0.01
7129		1.24	28.7	4.61	3.20	0.13	0.05	0.02	0.014	0.02	4.4	19.0	7.73	650	1.52	<0.01
7130		2.11	17.3	2.61	3.98	0.06	0.02	0.02	0.019	0.04	12.8	18.0	0.55	840	1.13	<0.01
7131		1.79	12.0	1.97	3.08	0.05	<0.02	0.01	0.013	0.03	10.8	13.9	0.49	803	0.71	<0.01
7132		2.16	16.7	2.42	3.74	0.05	<0.02	0.01	0.017	0.04	11.3	19.1	0.55	1200	0.96	<0.01
7133		1.05	22.5	2.99	3.86	0.06	0.03	0.02	0.016	0.03	11.2	11.5	0.73	1760	1.18	<0.01
7134		1.35	24.8	2.73	4.08	0.05	0.02	0.02	0.016	0.04	14.4	12.6	0.68	1020	1.63	<0.01
7135		1.19	19.7	2.67	3.43	0.05	0.02	0.02	0.015	0.03	12.3	11.1	0.61	1400	1.48	<0.01
7136		1.07	30.2	2.26	3.57	0.05	0.03	0.03	0.015	0.13	16.3	19.4	0.58	385	1.05	0.01
7137		3.22	10.7	1.30	2.12	<0.05	<0.02	0.02	0.008	0.05	11.1	9.9	0.36	246	0.52	0.01
7138		2.10	9.6	1.37	2.12	<0.05	0.02	0.01	0.008	0.05	10.3	10.1	0.37	281	0.57	0.01
7139		1.37	5.7	1.45	1.97	<0.05	0.02	<0.01	0.007	0.03	13.4	6.8	0.42	279	0.39	0.01
7140		2.44	27.8	1.39	2.35	<0.05	0.02	0.03	0.011	0.04	9.5	10.8	0.42	458	0.65	0.01
7141		0.35	20.2	2.25	4.81	0.08	0.24	0.01	0.024	0.13	4.1	9.5	0.71	370	1.94	0.10
7142		0.98	6870	6.30	2.60	0.07	0.08	2.01	0.137	0.27	3.0	9.4	0.84	881	7.61	0.04
7143		0.66	19.5	1.50	2.44	<0.05	<0.02	0.01	0.010	0.05	8.7	9.9	0.45	315	0.66	0.01
7144		2.97	62.6	3.32	3.72	0.08	0.11	0.08	0.028	0.03	11.4	38.5	1.10	688	11.30	<0.01
7145		0.84	72.8	4.11	4.28	0.08	0.11	0.07	0.023	0.04	15.1	34.8	1.11	1160	9.97	0.01
7146		1.26	72.2	3.81	4.47	0.07	0.06	0.10	0.029	0.04	16.2	46.4	1.20	844	11.25	<0.01
7147		1.71	65.2	3.59	4.25	0.07	0.04	0.07	0.027	0.04	16.2	43.7	1.24	745	12.60	<0.01
7148		0.92	22.6	2.76	3.57	0.07	0.04	0.05	0.018	0.03	16.6	29.6	0.78	649	3.43	<0.01
7149		0.58	12.4	1.74	2.60	0.05	0.03	0.04	0.013	0.03	12.1	18.3	0.49	283	1.45	<0.01
7150		0.96	74.4	4.61	5.95	0.10	0.11	0.13	0.034	0.06	19.3	32.9	1.82	961	8.60	0.01

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



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Project: Exploration

**CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
7121		0.22	18.6	560	3.3	4.3	0.002	0.05	0.29	4.6	0.4	0.5	41.7	<0.01	0.02	0.8
7122		0.59	15.9	600	21.5	15.1	0.008	2.62	25.0	3.0	10.5	3.7	59.2	<0.01	0.29	1.3
7123		0.86	127.5	390	2.4	3.7	<0.001	0.02	0.13	4.2	0.6	0.3	33.2	<0.01	0.02	0.6
7124		0.62	153.0	320	2.1	3.2	<0.001	0.02	0.09	4.3	0.7	0.2	34.6	<0.01	0.01	0.7
7125		1.27	138.0	610	4.2	8.1	0.001	0.03	0.21	5.6	1.0	0.4	30.4	<0.01	0.02	0.6
7126		0.31	236	310	2.5	2.9	0.001	0.02	0.15	8.4	0.4	0.2	17.8	<0.01	0.02	0.7
7127		0.24	199.5	280	2.4	2.2	0.001	0.02	0.20	7.3	0.5	0.2	17.7	<0.01	0.02	0.7
7128		0.15	238	270	3.1	2.0	0.001	0.01	0.24	8.7	0.6	0.2	18.5	<0.01	0.02	0.9
7129		0.21	213	300	2.9	1.6	<0.001	0.02	0.41	5.3	0.6	<0.2	17.3	<0.01	0.02	1.1
7130		1.74	19.4	1080	4.2	5.1	0.002	0.05	0.52	2.6	1.6	0.6	15.8	<0.01	0.01	0.7
7131		1.64	16.1	970	3.3	5.3	0.001	0.03	0.18	2.2	0.8	0.5	16.4	<0.01	0.01	1.0
7132		1.94	19.7	910	4.3	6.7	0.002	0.04	0.22	2.6	0.7	0.6	19.5	<0.01	0.01	1.0
7133		1.72	27.8	910	7.6	4.9	0.002	0.03	0.24	3.1	0.8	0.5	19.2	<0.01	0.01	1.1
7134		1.62	28.1	820	7.2	6.1	0.001	0.04	0.30	3.1	0.9	0.5	38.6	<0.01	0.02	1.1
7135		1.67	25.6	830	6.2	4.6	0.001	0.04	0.25	2.5	1.0	0.4	41.4	<0.01	0.02	1.1
7136		2.25	30.0	700	7.4	17.6	<0.001	0.04	0.70	2.5	0.8	0.5	30.7	<0.01	0.01	2.1
7137		1.66	13.5	440	3.7	8.0	0.001	0.04	0.27	1.5	0.8	0.3	32.8	<0.01	0.01	1.7
7138		1.34	15.6	430	3.7	9.8	<0.001	0.02	0.27	1.5	0.3	0.3	21.8	<0.01	0.01	1.7
7139		1.19	12.4	440	2.8	4.4	<0.001	0.01	0.18	1.3	0.3	0.3	17.5	<0.01	0.01	2.7
7140		1.10	23.8	380	4.8	6.0	0.001	0.04	0.23	1.6	0.9	0.3	38.9	<0.01	0.02	0.8
7141		0.24	18.8	550	3.3	4.4	<0.001	0.05	0.29	4.6	0.5	0.5	43.3	<0.01	0.02	0.8
7142		0.60	16.1	600	21.9	15.4	0.011	2.61	25.3	3.1	10.1	4.1	60.8	<0.01	0.32	1.3
7143		1.76	23.3	360	4.6	9.5	<0.001	0.02	0.28	1.7	0.4	0.3	20.1	<0.01	0.01	1.7
7144		0.19	65.1	900	16.4	7.4	0.003	0.04	2.06	2.2	3.7	0.2	33.9	<0.01	0.10	2.9
7145		0.67	84.0	910	19.6	2.8	0.002	0.07	2.09	3.3	2.4	0.2	48.2	<0.01	0.12	4.1
7146		0.23	75.2	850	21.3	3.4	0.003	0.04	2.06	2.6	2.9	0.2	33.8	<0.01	0.13	3.6
7147		0.69	72.7	810	15.1	3.8	0.002	0.03	2.31	2.1	2.7	0.2	33.4	<0.01	0.11	3.2
7148		0.86	42.9	800	9.8	5.8	0.003	0.02	0.77	2.2	1.6	0.2	48.5	<0.01	0.04	3.0
7149		1.12	19.7	650	5.4	4.2	0.002	0.02	0.35	1.6	1.0	0.3	26.1	<0.01	0.02	2.0
7150		0.76	75.2	1110	14.8	4.1	0.003	0.04	1.64	8.1	2.7	0.3	76.6	<0.01	0.08	5.5



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 Account: MINCHI

Project: Exploration

**CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
7121		0.144	0.06	0.25	61	7.43	7.13	45	5.6
7122		0.040	0.25	0.52	41	1.35	3.74	105	1.6
7123		0.091	0.05	0.39	78	0.07	3.57	52	1.0
7124		0.056	0.03	0.31	51	0.07	3.17	49	0.9
7125		0.078	0.05	0.48	53	0.16	8.32	69	0.7
7126		0.053	0.03	0.27	50	1.46	3.62	66	1.1
7127		0.062	0.02	0.26	53	0.06	3.57	62	1.3
7128		0.050	0.03	0.25	52	0.06	3.48	73	1.7
7129		0.038	0.03	0.39	46	0.06	3.19	67	1.6
7130		0.101	0.08	1.50	48	0.14	9.47	86	0.6
7131		0.098	0.06	0.81	37	0.21	7.86	83	0.5
7132		0.103	0.09	0.94	43	0.11	7.43	107	0.6
7133		0.127	0.09	0.79	55	0.10	9.30	206	1.0
7134		0.101	0.11	1.10	50	0.13	7.62	113	0.7
7135		0.094	0.08	1.10	44	0.11	7.21	134	0.7
7136		0.071	0.11	0.84	45	0.92	8.45	69	0.9
7137		0.056	0.06	0.57	31	0.69	4.03	39	0.5
7138		0.064	0.06	0.79	32	0.52	3.51	44	0.6
7139		0.060	0.04	0.50	37	0.13	4.02	24	0.6
7140		0.054	0.05	0.70	33	0.11	3.93	44	0.6
7141		0.144	0.06	0.26	61	7.31	7.50	44	5.7
7142		0.040	0.26	0.45	41	1.70	3.86	104	1.6
7143		0.066	0.06	0.72	30	0.12	3.72	49	0.5
7144		<0.005	0.20	0.94	31	<0.05	8.45	209	3.6
7145		0.026	0.17	1.04	40	<0.05	9.32	175	5.5
7146		0.005	0.15	1.03	32	<0.05	9.30	209	2.1
7147		0.028	0.16	0.80	39	<0.05	7.58	248	1.8
7148		0.037	0.08	1.34	35	0.06	6.70	113	1.4
7149		0.048	0.05	1.04	27	0.08	5.84	68	0.9
7150		0.044	0.16	1.21	76	0.05	11.80	148	5.2



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<b>CERTIFICATE OF ANALYSIS VA13166703</b>
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	<b>CERTIFICATE COMMENTS</b>
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	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> <td style="width: 15%;"></td> </tr> <tr> <td>SCR-41</td> <td>WEI-21</td> <td></td> <td>ME-MS41</td> </tr> </table>	Au-ICP21	LOG-22	LOG-24		SCR-41	WEI-21		ME-MS41
Au-ICP21	LOG-22	LOG-24							
SCR-41	WEI-21		ME-MS41						



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**CERTIFICATE VA13166705**

Project: Exploration  
 P.O. No.:  
 This report is for 22 Rock samples submitted to our lab in Vancouver, BC, Canada on 13-SEP-2013.  
 The following have access to data associated with this certificate:  
 PATRICIA FONG                      MICHAEL GUO                      LEO ZHU

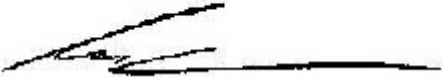
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: CHINA MINERALS CORP. LTD.  
 ATTN: MICHAEL GUO  
 SUITE 490-1111 MELVILLE ST.  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS VA13166705**

Sample Description	Method Analyte Units LOR	WEI-21	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	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
3101		1.52	0.023	0.23	1.42	6.3	<0.2	<10	60	0.10	0.05	1.64	0.09	5.97	18.9	47
3102		1.28	0.006	0.08	1.55	17.9	<0.2	<10	80	0.12	0.06	1.23	0.04	2.27	14.7	16
3103		0.90	0.040	0.04	0.44	13.6	<0.2	<10	370	0.19	<0.01	2.32	0.05	3.99	13.7	26
3104		0.78	0.076	0.08	0.10	49.5	<0.2	<10	60	<0.05	0.01	2.01	0.02	1.39	3.5	9
3105		0.78	<0.001	0.12	3.78	17.8	<0.2	<10	40	0.08	0.01	1.29	0.11	3.64	39.7	336
3106		1.08	0.007	0.29	0.24	16.2	<0.2	<10	110	0.13	0.17	3.13	0.73	19.10	6.4	7
3107		0.80	0.001	0.14	0.16	0.6	<0.2	<10	10	<0.05	0.19	2.85	0.24	5.92	1.2	7
3108		0.70	0.006	0.43	2.15	8.5	<0.2	<10	30	0.16	0.07	2.49	0.84	5.49	18.1	15
3109		1.20	0.006	0.16	2.31	1.4	<0.2	<10	40	0.11	0.06	1.42	0.06	2.43	30.4	58
3110		0.84	0.038	0.03	1.31	14.5	<0.2	<10	60	0.19	<0.01	7.98	0.06	4.38	16.3	20
3111		0.72	0.099	0.01	0.13	100.0	<0.2	<10	50	0.40	<0.01	0.89	0.02	1.11	3.0	12
3112		0.50	0.002	0.07	0.29	26.0	<0.2	<10	210	0.10	0.17	0.11	0.23	13.55	4.2	12
3113		0.10	0.001	0.20	1.58	4.3	<0.2	<10	100	0.22	0.07	0.82	0.15	9.59	8.7	28
3114		0.10	0.750	2.22	0.65	28.0	0.6	<10	80	0.21	0.74	1.78	0.62	7.20	9.5	32
3151		0.30	0.001	0.03	0.16	9.4	<0.2	<10	100	0.12	0.01	6.12	0.05	2.31	7.5	11
3152		0.42	0.002	0.01	0.21	7	<0.2	<10	290	0.13	<0.01	12.65	0.04	0.53	67.8	811
3153		0.78	0.017	0.05	0.01	10.9	<0.2	<10	10	0.13	<0.01	2.52	0.04	0.16	78.0	222
3154		0.42	0.002	0.03	4.60	0.2	<0.2	<10	60	0.36	0.01	3.95	0.26	5.43	25.4	82
3155		0.18	0.001	0.05	0.83	1.1	<0.2	<10	10	0.13	0.02	1.06	0.11	4.13	3.2	10
3156		0.48	0.006	0.16	0.23	1.8	<0.2	<10	190	0.09	0.13	0.03	0.01	19.50	4.0	5
3157		0.72	0.004	0.05	0.17	5.7	<0.2	<10	170	0.10	0.11	0.51	0.04	9.07	4.6	6
3158		0.30	0.002	0.02	0.26	1.1	<0.2	<10	1070	0.07	<0.01	2.78	0.07	1.18	5.1	8



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**CERTIFICATE OF ANALYSIS VA13166705**

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	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	0.01
3101		0.16	96.6	3.58	3.76	0.08	0.11	0.01	0.026	0.13	2.4	7.6	1.09	424	1.91	0.04
3102		0.37	14.8	3.05	4.29	0.06	0.06	0.01	0.011	0.18	0.9	4.8	0.56	228	0.76	0.03
3103		1.18	4.3	4.32	1.84	0.06	0.05	1.39	0.042	0.03	1.2	4.9	0.91	962	0.41	<0.01
3104		0.71	42.5	1.64	0.32	<0.05	<0.02	0.05	0.007	0.05	0.5	0.6	0.41	419	1.02	<0.01
3105		0.14	31.4	6.96	13.05	0.22	0.02	0.01	0.045	0.01	1.3	58.6	5.48	387	0.82	0.03
3106		0.19	35.9	1.97	0.81	0.06	0.16	0.05	0.020	0.13	9.5	1.0	0.43	1050	5.70	0.02
3107		0.07	3.1	0.52	0.59	<0.05	0.03	0.01	0.009	0.01	2.5	4.0	0.10	736	1.33	0.01
3108		<0.05	62.6	3.36	6.54	0.22	0.23	0.02	0.024	0.01	2.8	7.0	0.75	344	2.35	0.03
3109		0.13	59.6	5.96	5.83	0.17	0.12	0.03	0.007	0.08	0.9	18.6	1.98	424	1.43	0.05
3110		3.14	29.1	4.25	5.43	0.09	0.11	0.01	0.031	0.06	1.7	20.4	1.72	1140	0.38	0.01
3111		0.90	3.8	0.90	0.33	<0.05	<0.02	0.01	0.014	0.05	0.4	0.9	0.16	521	0.72	<0.01
3112		0.67	50.3	1.07	1.10	<0.05	0.09	0.03	0.013	0.07	6.6	3.2	0.12	2070	1.98	<0.01
3113		0.39	22.0	2.18	5.56	0.08	0.25	0.03	0.031	0.13	4.3	10.2	0.69	355	2.23	0.09
3114		1.09	7010	6.23	2.90	0.07	0.08	2.18	0.153	0.28	3.2	9.5	0.84	870	8.43	0.05
3151		0.35	9.9	2.75	0.60	0.05	0.02	0.03	0.024	0.02	0.8	6.2	1.11	1110	0.69	<0.01
3152		0.07	5.9	3.58	0.72	0.09	<0.02	0.01	0.005	<0.01	0.2	0.8	7.18	1340	0.22	<0.01
3153		0.12	6.7	3.99	0.18	0.11	<0.02	0.03	<0.005	<0.01	<0.2	1.5	15.85	933	0.33	<0.01
3154		0.08	62.7	3.96	11.50	0.19	0.17	<0.01	0.017	0.05	2.3	16.5	2.57	752	0.51	<0.01
3155		<0.05	6.7	0.66	2.52	0.10	0.16	0.01	0.007	<0.01	2.6	1.0	0.32	204	0.94	0.04
3156		5.94	31.9	1.65	1.21	0.06	0.02	0.14	0.014	0.15	7.0	1.2	0.03	63	0.41	<0.01
3157		2.55	30.0	1.66	0.67	0.05	0.02	0.07	0.009	0.09	3.2	1.2	0.04	1260	0.63	<0.01
3158		45.4	14.3	3.49	1.31	0.38	<0.02	0.01	<0.005	0.04	0.7	0.7	0.23	1520	0.91	<0.01





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**CERTIFICATE OF ANALYSIS VA13166705**

Sample Description	Method Analyte Units LOR	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	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
3101		0.37	14.3	680	2.7	2.6	0.010	1.41	0.30	4.1	3.4	0.4	27.1	<0.01	0.19	0.6
3102		0.39	5.7	340	12.4	3.5	0.001	1.14	0.26	4.3	1.9	0.2	14.5	<0.01	0.83	0.4
3103		0.06	10.9	330	0.7	1.8	<0.001	0.11	4.98	10.5	0.5	0.2	28.6	<0.01	<0.01	<0.2
3104		<0.05	3.1	500	1.0	2.2	<0.001	0.11	5.35	2.4	0.4	<0.2	29.9	<0.01	0.01	<0.2
3105		0.09	135.5	550	0.8	0.5	0.001	2.79	0.23	24.4	5.6	<0.2	188.5	<0.01	0.01	<0.2
3106		<0.05	19.7	640	9.7	4.0	0.001	0.32	0.42	3.5	1.3	<0.2	98.6	<0.01	0.04	2.5
3107		<0.05	4.2	180	65.9	0.5	<0.001	0.04	0.21	1.1	5.9	<0.2	341	<0.01	0.01	0.3
3108		0.27	9.9	610	30.3	0.3	0.013	1.13	1.06	7.9	3.1	0.5	37.3	<0.01	0.44	0.4
3109		0.23	27.4	430	1.6	1.7	0.042	4.48	0.18	7.0	16.2	0.3	9.0	<0.01	0.30	0.2
3110		0.10	16.5	560	0.6	5.6	<0.001	0.08	0.13	12.7	0.5	0.2	88.4	<0.01	0.01	<0.2
3111		<0.05	6.1	230	0.5	3.5	<0.001	0.13	0.14	3.3	<0.2	<0.2	31.0	<0.01	<0.01	<0.2
3112		<0.05	28.2	90	9.4	6.5	0.002	<0.01	2.12	1.2	0.2	<0.2	13.9	<0.01	0.10	1.2
3113		0.20	20.3	560	3.9	5.3	0.002	0.03	0.36	5.6	0.3	0.5	45.0	<0.01	0.02	1.0
3114		0.63	16.8	610	22.2	15.4	0.012	2.61	23.8	3.5	10.0	4.3	63.4	<0.01	0.30	1.7
3151		0.06	11.3	350	0.9	0.9	<0.001	0.03	1.54	4.4	0.3	<0.2	58.9	<0.01	0.01	<0.2
3152		0.10	953	10	0.2	0.1	<0.001	0.06	1.07	8.0	0.2	<0.2	1210	<0.01	0.02	<0.2
3153		0.06	1075	10	0.9	0.2	<0.001	0.23	0.44	2.5	0.7	<0.2	173.0	<0.01	0.02	<0.2
3154		0.25	46.1	390	1.2	1.4	<0.001	0.03	0.09	12.4	0.4	0.3	126.0	0.01	0.03	0.3
3155		0.20	14.6	210	6.3	0.1	0.001	0.12	0.11	1.8	0.4	0.2	5.7	<0.01	0.11	0.8
3156		<0.05	11.5	80	3.0	8.4	<0.001	0.07	2.95	1.4	0.4	<0.2	2.3	<0.01	0.07	1.6
3157		<0.05	13.2	110	20.3	4.5	<0.001	0.04	0.38	2.1	0.4	<0.2	5.7	<0.01	0.04	0.9
3158		0.06	27.9	40	<0.2	8.9	<0.001	0.10	1.62	1.8	0.3	<0.2	16.9	<0.01	<0.01	<0.2



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**CERTIFICATE OF ANALYSIS VA13166705**

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
3101		0.182	0.02	0.43	63	0.16	5.45	36	2.6
3102		0.143	0.02	0.13	71	0.10	4.06	14	1.4
3103		<0.005	0.74	<0.05	73	0.34	10.80	35	0.7
3104		<0.005	0.10	<0.05	7	0.09	4.91	11	<0.5
3105		0.007	0.02	0.86	208	<0.05	4.07	84	0.6
3106		<0.005	0.04	0.70	15	<0.05	8.62	59	7.1
3107		<0.005	0.02	0.08	3	<0.05	6.12	10	0.8
3108		0.173	<0.02	0.76	110	0.20	6.96	77	5.4
3109		0.207	0.02	0.06	164	0.13	2.55	32	2.9
3110		0.062	0.06	0.06	91	0.44	12.75	39	2.5
3111		<0.005	0.04	<0.05	7	1.14	2.39	12	<0.5
3112		<0.005	0.04	0.17	8	0.06	1.35	104	3.7
3113		0.135	0.04	0.28	59	7.44	7.78	44	6.6
3114		0.040	0.27	0.61	41	1.22	4.92	104	1.8
3151		<0.005	0.20	0.08	20	0.34	8.59	31	<0.5
3152		<0.005	0.13	<0.05	13	0.06	1.47	10	<0.5
3153		<0.005	<0.02	<0.05	3	0.16	0.16	6	<0.5
3154		0.245	<0.02	0.11	153	0.08	6.34	52	6.8
3155		0.039	<0.02	0.34	17	0.07	5.08	13	3.5
3156		<0.005	0.28	0.10	5	0.33	2.02	23	0.7
3157		<0.005	0.05	0.11	5	0.18	5.04	36	0.8
3158		<0.005	0.04	0.09	70	0.31	5.33	8	<0.5



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**CERTIFICATE OF ANALYSIS VA13166705**

**CERTIFICATE COMMENTS**

	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	Interference: Samples with Ca > 10% on ICP-MS As. ICP-AES As results reported (2 ppm DL) ME-MS41												
Applies to Method:	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41												
<b>LABORATORY ADDRESSES</b>													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 15%;">LOG-22</td> </tr> <tr> <td>LOG-24</td> <td>ME-MS41</td> <td>PUL-31</td> <td>PUL-QC</td> </tr> <tr> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	Au-ICP21	CRU-31	CRU-QC	LOG-22	LOG-24	ME-MS41	PUL-31	PUL-QC	SPL-21	WEI-21		
Au-ICP21	CRU-31	CRU-QC	LOG-22										
LOG-24	ME-MS41	PUL-31	PUL-QC										
SPL-21	WEI-21												



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**CERTIFICATE VA13166704**

Project: Exploration  
 P.O. No.:  
 This report is for 83 Soil samples submitted to our lab in Vancouver, BC, Canada on 13-SEP-2013.  
 The following have access to data associated with this certificate:  
 PATRICIA FONG                      MICHAEL GUO                      LEO ZHU

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both
LOG-24	Pulp Login - Rcd w/o Barcode
EXTRA-01	Extra Sample received in Shipment

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: CHINA MINERALS CORP. LTD.  
 ATTN: MICHAEL GUO  
 SUITE 490-1111 MELVILLE ST.  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager









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**CERTIFICATE OF ANALYSIS VA13166704**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
14401		0.145	0.08	1.24	58	0.21	35.4	109	3.2
14402		0.143	0.08	1.29	57	0.20	36.1	109	3.2
14403		0.122	0.04	0.86	46	0.12	10.75	74	1.5
14404		0.112	0.05	0.65	56	1.66	9.78	75	1.0
14405		0.095	0.06	0.87	48	0.18	11.05	75	1.2
14406		0.114	0.09	0.70	64	0.23	20.0	139	1.7
14407		0.108	0.05	0.69	53	0.15	11.25	80	1.1
14408		0.113	0.06	0.71	58	4.47	7.93	59	0.9
14409		0.127	0.06	0.66	69	0.15	8.62	77	0.8
14410		0.142	0.06	0.69	63	0.18	7.97	81	1.3
14411		0.152	0.05	0.28	59	6.93	7.68	42	5.4
14412		0.042	0.24	0.60	39	1.31	4.20	97	1.5
14413		0.062	0.07	1.00	36	0.12	5.60	72	1.1
14414		0.048	0.07	1.47	35	0.08	7.28	100	1.5
14415		0.062	0.04	0.57	18	0.80	4.99	24	1.4
14416		0.066	0.04	0.60	28	0.94	4.52	44	0.7
14417		0.061	0.04	0.95	26	0.41	6.60	49	1.0
14418		0.057	0.04	1.20	25	0.19	6.50	52	0.9
14419		0.031	0.08	0.84	29	0.37	7.16	113	1.6
14420		0.049	0.11	8.13	87	0.05	18.55	295	2.1
14421		0.027	0.18	4.29	34	0.05	7.72	232	1.4
14422		0.027	0.19	4.33	33	0.05	8.02	232	1.4
14423		0.011	0.10	1.10	36	<0.05	9.87	162	2.3
14424		0.052	0.08	2.61	60	0.07	8.48	109	2.1
14425		0.048	0.11	2.01	52	<0.05	10.90	164	3.2
14426		0.247	0.04	0.58	126	0.10	9.73	73	3.1
14427		0.153	0.05	0.97	76	0.84	8.49	51	1.5
14428		0.019	0.12	1.81	36	0.14	10.20	151	1.0
14429		0.012	0.12	0.88	31	0.13	7.90	148	1.3
14430		0.033	0.03	0.28	41	0.05	2.90	57	1.6
14431		0.148	0.05	0.27	58	6.62	7.61	41	5.4
14432		0.041	0.24	0.49	38	1.81	4.76	96	1.5
14433		0.033	0.06	0.73	44	0.07	7.17	97	1.2
14434		0.101	0.05	0.75	71	1.86	8.24	94	2.4
14435		0.046	0.19	1.48	57	0.06	10.50	210	2.7
14436		0.034	0.07	2.06	47	0.09	6.41	109	1.5
14437		0.009	0.15	2.36	28	0.07	9.65	215	2.0
14438		0.026	0.11	1.43	45	0.09	8.67	139	2.1
14439		0.053	0.10	0.81	46	0.24	8.66	117	1.2
14440		0.099	0.05	0.52	72	0.17	9.23	94	2.5











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**CERTIFICATE OF ANALYSIS VA13166704**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
14441		0.013	0.13	0.94	36	2.57	9.65	145	1.9
14442		0.016	0.12	0.91	36	0.10	9.36	137	1.5
14443		0.023	0.11	0.75	46	0.10	8.61	119	1.5
14444		0.020	0.11	0.90	41	0.21	9.71	129	1.7
14445		0.090	0.10	0.49	72	0.30	10.85	82	1.6
14446		0.066	0.07	0.54	87	0.26	18.65	91	1.1
14447		0.043	0.08	4.01	55	1.89	14.85	94	0.8
14448		0.059	0.10	0.93	56	0.14	12.15	106	2.0
14449		0.104	0.03	0.28	83	0.07	5.97	57	2.0
14450		0.135	0.05	0.54	82	0.12	7.64	48	1.2
14451		0.144	0.05	0.28	56	6.47	7.73	41	5.3
14452		0.040	0.24	0.49	38	1.27	4.97	96	1.5
14453		0.101	0.03	0.30	69	0.11	6.11	49	1.9
14454		0.217	0.02	0.25	119	0.07	8.40	56	3.5
14455		0.119	0.02	0.22	70	0.07	4.94	45	2.2
14456		0.203	0.03	0.44	93	0.11	8.76	55	2.1
14457		0.074	0.08	0.64	27	0.11	7.52	31	1.0
14458		0.041	0.06	0.54	31	0.08	5.87	88	0.9
14459		0.044	0.07	0.68	44	0.07	8.16	125	2.5
14460		0.091	0.06	0.83	39	2.07	6.36	72	1.0
14461		0.038	0.20	0.44	91	3.18	17.55	113	1.2
14462		0.040	0.21	0.42	91	4.26	16.70	111	1.1
14463		0.040	0.25	0.32	103	1.38	20.6	114	1.2
14464		0.038	0.56	0.53	116	0.26	25.8	110	2.0
14465		0.090	0.05	0.86	40	0.16	7.55	46	1.0
14466		0.087	0.05	1.37	36	0.12	7.32	42	0.9
14467		0.078	0.06	0.70	68	5.42	6.96	28	1.2
14468		0.077	0.04	0.86	47	0.09	5.44	25	0.9
14469		0.075	0.07	0.78	38	0.18	5.39	43	0.9
14471		0.144	0.05	0.27	58	6.10	7.94	42	5.3
14472		0.040	0.24	0.50	38	1.29	4.44	96	1.5
14476		0.018	0.12	1.04	36	<0.05	9.16	168	3.6
14201		0.103	0.09	0.66	55	0.15	6.51	66	0.5
14202		0.107	0.08	0.69	53	0.16	7.52	61	0.7
14203		0.109	0.12	0.61	67	0.20	4.02	67	0.6
14204		0.088	0.10	0.61	53	0.16	5.99	67	0.5
14205		0.132	0.16	2.39	57	0.20	9.49	71	5.8
14206		0.079	0.09	0.50	57	0.19	4.72	100	0.6
14207		0.147	0.10	0.66	72	0.17	5.90	65	1.3
14208		0.099	0.12	0.82	53	0.25	16.45	68	2.9



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**CERTIFICATE OF ANALYSIS VA13166704**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
14209		0.46	0.046	0.30	2.02	52.2	<0.2	<10	280	0.66	0.10	0.35	0.18	30.2	16.5	75
14210		0.32	0.074	0.12	2.76	62.1	<0.2	<10	260	0.92	0.17	0.25	0.17	27.1	17.7	91
14211		0.34	0.029	0.09	1.86	35.0	<0.2	<10	80	0.44	0.10	0.24	0.17	27.1	15.1	62

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**CERTIFICATE OF ANALYSIS VA13166704**

Sample Description	Method Analyte Units LOR	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	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		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	0.01
14209		1.63	55.8	3.58	5.48	0.05	0.06	0.04	0.029	0.05	15.5	25.7	0.96	660	1.65	0.01
14210		2.42	62.7	5.08	9.16	0.05	0.04	0.04	0.055	0.09	12.2	25.8	0.96	684	1.52	0.01
14211		1.27	28.8	3.17	5.02	<0.05	0.03	0.03	0.029	0.04	11.7	13.6	0.64	651	0.80	0.01

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



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Project: Exploration

**CERTIFICATE OF ANALYSIS VA13166704**

Sample Description	Method Analyte Units LOR	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	ME-MS41 Th ppm 0.2
14209		1.59	66.8	570	7.4	5.7	0.001	0.02	0.74	9.1	0.8	0.4	13.6	<0.01	0.03	1.6
14210		3.87	78.1	750	13.2	11.6	0.001	0.04	0.90	7.8	1.0	1.1	11.5	<0.01	0.05	1.0
14211		1.80	45.3	790	9.5	5.4	0.001	0.03	0.70	3.2	0.6	0.4	11.0	0.01	0.02	1.1

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**CERTIFICATE OF ANALYSIS VA13166704**

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 TI ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
14209		0.074	0.13	1.09	58	0.24	11.25	72	1.9
14210		0.135	0.17	0.85	77	0.22	7.14	131	2.3
14211		0.094	0.08	0.54	56	0.22	5.49	53	1.1

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**CERTIFICATE OF ANALYSIS VA13166704**

CERTIFICATE COMMENTS									
	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p> <p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table><tr><td>Au-ICP21</td><td>EXTRA-01</td><td>LOG-22</td><td>LOG-24</td></tr><tr><td>ME-MS41</td><td>SCR-41</td><td>WEI-21</td><td></td></tr></table>	Au-ICP21	EXTRA-01	LOG-22	LOG-24	ME-MS41	SCR-41	WEI-21	
Au-ICP21	EXTRA-01	LOG-22	LOG-24						
ME-MS41	SCR-41	WEI-21							



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**QC CERTIFICATE VA13166703**

Project: Exploration  
 P.O. No.:  
 This report is for 150 Sediment samples submitted to our lab in Vancouver, BC, Canada on 13-SEP-2013.  
 The following have access to data associated with this certificate:  
 PATRICIA FONG                      MICHAEL GUO                      LEO ZHU

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: CHINA MINERALS CORP. LTD.  
 ATTN: MICHAEL GUO  
 SUITE 490-1111 MELVILLE ST.  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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**QC CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
	<b>STANDARDS</b>															
GAu-11b		0.010														
Target Range - Lower Bound		0.008														
Upper Bound		0.013														
GBM908-10			2.88	0.94	58.5	0.4	<10	100	0.29	1.08	0.70	1.64	85.0	14.6	22	0.66
GBM908-10			3.00	1.05	58.7	0.4	<10	110	0.30	1.70	0.72	1.73	89.0	14.3	22	0.75
GBM908-10			2.95	0.96	58.5	0.4	<10	100	0.29	1.10	0.68	1.69	86.3	14.4	23	0.67
GBM908-10			2.92	0.93	54.1	0.5	<10	100	0.31	1.42	0.65	1.74	84.6	14.0	22	0.75
Target Range - Lower Bound			2.69	0.85	49.4	<0.2	<10	70	0.17	1.12	0.62	1.52	79.3	12.9	20	0.66
Upper Bound			3.31	1.06	60.6	0.9	30	140	0.40	1.39	0.79	1.88	97.0	15.9	27	0.94
GBM908-5			60.3	1.16	7.2	<0.2	<10	200	0.51	0.82	0.71	0.17	206	11.5	18	1.30
GBM908-5			56.3	1.08	5.7	<0.2	<10	190	0.42	0.81	0.69	0.15	188.5	10.4	17	1.12
Target Range - Lower Bound			52.4	1.02	5.8	<0.2	<10	160	0.30	0.79	0.63	0.12	170.5	9.7	15	0.98
Upper Bound			64.0	1.26	7.4	0.6	30	230	0.54	0.98	0.79	0.17	208	12.1	20	1.31
GLG307-4		0.052														
GLG307-4		0.051														
GLG307-4		0.051														
Target Range - Lower Bound		0.048														
Upper Bound		0.056														
GPP-05		0.896														
GPP-05		0.905														
Target Range - Lower Bound																
Upper Bound																
LKSD-2			0.74	1.46	9.0	<0.2	10	210	0.69	1.00	0.55	0.79	93.9	15.0	27	1.26
Target Range - Lower Bound			0.73	1.38	8.0	<0.2	<10	180	0.58	1.03	0.52	0.71	87.2	15.2	25	1.06
Upper Bound			0.91	1.71	10.0	0.4	20	260	0.85	1.28	0.66	0.89	106.5	18.8	33	1.41
MRGeo08			4.28	2.65	30.7	<0.2	<10	440	0.87	0.68	1.05	2.14	69.3	20.9	91	10.20
MRGeo08			4.39	2.66	28.4	<0.2	<10	440	0.76	0.65	1.11	2.09	72.7	18.9	88	11.10
MRGeo08			4.50	2.72	28.7	<0.2	<10	450	0.85	0.66	1.10	2.17	72.2	19.3	93	10.30
MRGeo08			4.43	2.55	32.9	<0.2	<10	440	0.79	0.67	1.09	2.25	74.7	20.9	91	10.40
Target Range - Lower Bound			4.00	2.44	28.9	<0.2	<10	370	0.66	0.62	1.00	2.01	66.7	17.5	81	9.85
Upper Bound			4.92	3.00	35.5	0.6	20	530	0.94	0.78	1.24	2.47	81.5	21.6	102	12.15
OREAS 90			0.05	2.33	4.6	<0.2	<10	50	0.55	0.84	0.38	<0.01	59.1	15.1	40	0.92
OREAS 90			0.06	2.29	4.8	<0.2	<10	50	0.61	0.94	0.37	0.01	64.2	16.7	39	1.00
Target Range - Lower Bound			0.04	2.09	4.0	<0.2	<10	30	0.48	0.82	0.33	<0.01	54.5	13.7	35	0.86
Upper Bound			0.08	2.57	5.1	0.4	20	80	0.74	1.02	0.43	0.03	66.7	16.9	45	1.16
OREAS-151a		0.044														
Target Range - Lower Bound		0.039														
Upper Bound		0.047														
OxJ111		2.13														

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





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Project: Exploration

**QC CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm	ME-MS41 Ti %
<b>STANDARDS</b>																
GAu-11b																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		2230	840	2090	30.2	<0.001	0.39	1.16	1.8	1.3	1.5	32.2	<0.01	0.04	16.1	0.298
GBM908-10		2290	910	2220	29.1	<0.001	0.41	1.31	1.9	1.3	1.6	36.6	<0.01	0.04	16.5	0.331
GBM908-10		2210	830	2060	28.9	<0.001	0.39	1.19	1.8	1.0	1.7	32.2	<0.01	0.04	15.5	0.304
GBM908-10		2170	820	2050	28.2	<0.001	0.39	1.41	1.9	1.1	2.0	31.8	0.01	0.05	15.8	0.290
Target Range - Lower Bound		2030	760	1860	27.6	<0.001	0.33	1.06	1.8	0.5	1.2	30.8	<0.01	0.02	15.2	0.276
Upper Bound		2480	960	2270	34.0	0.003	0.43	1.55	2.4	1.3	2.2	38.0	0.03	0.07	19.0	0.348
GBM908-5		421	1270	389	57.8	0.001	0.17	0.16	1.9	1.1	1.9	53.7	0.02	0.05	39.1	0.164
GBM908-5		426	1250	375	58.9	<0.001	0.16	0.14	1.5	0.9	1.6	48.7	0.01	0.05	38.5	0.150
Target Range - Lower Bound		381	1140	345	50.8	<0.001	0.14	<0.05	1.3	0.3	1.1	47.3	<0.01	0.02	34.4	0.146
Upper Bound		466	1410	422	62.3	0.003	0.20	0.25	1.9	1.1	2.0	58.2	0.03	0.07	42.4	0.189
GLG307-4																
GLG307-4																
GLG307-4																
Target Range - Lower Bound																
Upper Bound																
GPP-05																
GPP-05																
Target Range - Lower Bound																
Upper Bound																
LKSD-2		23.2	1190	33.1	16.2	0.002	0.15	0.64	5.2	1.8	1.7	26.4	<0.01	0.06	6.2	0.069
Target Range - Lower Bound		20.5	1090	35.8	15.8	<0.001	0.13	0.42	5.1	1.1	1.0	26.3	<0.01	0.03	5.3	0.061
Upper Bound		25.5	1350	44.2	19.5	0.002	0.19	0.74	6.4	2.1	1.9	32.6	0.02	0.07	6.9	0.088
MRGeo08		683	980	1075	151.5	0.009	0.31	2.95	8.8	1.6	2.9	78.8	0.01	0.01	21.3	0.367
MRGeo08		664	960	1060	142.0	0.007	0.29	3.04	8.2	1.7	3.1	82.8	0.01	0.03	21.6	0.395
MRGeo08		697	1000	1090	146.5	0.010	0.31	2.92	8.1	1.6	3.3	79.2	0.01	0.03	21.1	0.380
MRGeo08		684	1000	1075	144.5	0.008	0.30	3.65	7.4	1.6	3.9	77.0	0.02	0.03	22.1	0.375
Target Range - Lower Bound		622	900	959	132.0	0.007	0.27	2.80	6.8	0.9	2.8	73.2	<0.01	<0.01	19.5	0.350
Upper Bound		760	1130	1175	162.0	0.011	0.36	3.90	8.6	1.9	4.0	89.9	0.04	0.04	24.3	0.439
OREAS 90		81.6	650	4.9	19.6	<0.001	0.07	0.40	2.4	0.7	1.3	11.5	0.01	0.01	15.5	0.078
OREAS 90		86.7	640	5.0	21.5	<0.001	0.07	0.42	2.7	0.9	1.4	13.2	0.02	0.02	17.2	0.073
Target Range - Lower Bound		76.5	570	4.8	18.9	<0.001	0.05	0.31	2.1	0.4	0.8	10.5	<0.01	<0.01	14.3	0.070
Upper Bound		93.9	720	6.3	23.3	0.002	0.09	0.60	2.7	1.3	1.8	13.3	0.04	0.05	17.9	0.098
OREAS-151a																
Target Range - Lower Bound																
Upper Bound																
OxJ111																

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**QC CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.02	0.05	1	0.05	0.05	2	0.5
<b>STANDARDS</b>								
GAu-11b								
Target Range - Lower Bound								
Upper Bound								
GBM908-10		0.21	1.22	48	1.78	18.65	1050	25.3
GBM908-10		0.19	1.29	47	1.64	20.8	1030	29.4
GBM908-10		0.23	1.21	48	1.99	18.70	1040	29.2
GBM908-10		0.22	1.27	48	2.24	19.10	1010	28.5
Target Range - Lower Bound		0.15	1.15	41	1.57	17.55	939	24.0
Upper Bound		0.27	1.51	53	2.24	21.6	1155	33.6
GBM908-5		0.40	2.83	26	1.99	28.6	225	9.7
GBM908-5		0.40	2.67	25	2.36	25.5	221	8.2
Target Range - Lower Bound		0.31	2.64	22	1.75	25.4	214	6.8
Upper Bound		0.47	3.34	29	2.48	31.1	266	10.5
GLG307-4								
GLG307-4								
GLG307-4								
Target Range - Lower Bound								
Upper Bound								
GPP-05								
GPP-05								
Target Range - Lower Bound								
Upper Bound								
LKSD-2		0.25	5.78	44	0.47	27.7	186	2.3
Target Range - Lower Bound		0.19	5.54	42	0.27	26.3	178	1.3
Upper Bound		0.32	6.88	54	0.55	32.3	222	3.8
MRGeo08		0.76	5.09	101	2.73	19.30	793	21.8
MRGeo08		0.70	5.30	98	2.48	20.3	748	22.2
MRGeo08		0.75	5.11	103	2.97	18.70	809	22.8
MRGeo08		0.81	5.51	106	3.20	19.85	798	23.4
Target Range - Lower Bound		0.66	4.99	90	2.44	17.85	708	18.1
Upper Bound		0.94	6.21	112	3.42	21.9	870	25.7
OREAS 90		0.10	1.91	21	0.43	16.95	56	22.1
OREAS 90		0.13	2.12	20	0.42	17.30	56	25.5
Target Range - Lower Bound		0.06	1.81	19	0.28	15.40	51	20.6
Upper Bound		0.16	2.33	25	0.56	18.90	66	29.1
OREAS-151a								
Target Range - Lower Bound								
Upper Bound								
OxJ111								



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**QC CERTIFICATE OF ANALYSIS VA13166703**

Method Analyte Units LOR	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	ME-MS41	ME-MS41	
Sample Description	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	
	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	
<b>STANDARDS</b>																
OxJ111	2.14															
OxJ111	2.15															
Target Range - Lower Bound	2.04															
Upper Bound	2.30															
OxN92	7.24															
Target Range - Lower Bound	7.18															
Upper Bound	8.10															
PD1	0.548															
Target Range - Lower Bound	0.508															
Upper Bound	0.576															
<b>BLANKS</b>																
BLANK	0.001															
BLANK	0.002															
BLANK	0.001															
BLANK	<0.001															
Target Range - Lower Bound	<0.001															
Upper Bound	0.002															
BLANK		<0.01	<0.01	<0.1	<0.2	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	
BLANK		<0.01	<0.01	<0.1	<0.2	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	
BLANK		<0.01	<0.01	<0.1	<0.2	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	
BLANK		<0.01	<0.01	<0.1	<0.2	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	
BLANK		<0.01	<0.01	<0.1	<0.2	<10	<10	<0.05	<0.01	0.01	<0.01	<0.02	<0.1	<1	<0.05	
BLANK		<0.01	<0.01	0.1	<0.2	<10	<10	<0.05	0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	
Target Range - Lower Bound		<0.01	<0.01	<0.1	<0.2	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	
Upper Bound		0.02	0.02	0.2	0.4	20	20	0.10	0.02	0.02	0.02	0.04	0.2	2	0.10	

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



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 VANCOUVER BC V6E 3V6

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Project: Exploration

**QC CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm	ME-MS41 Fe %	ME-MS41 Ga ppm	ME-MS41 Ge ppm	ME-MS41 Hf ppm	ME-MS41 Hg ppm	ME-MS41 In ppm	ME-MS41 K %	ME-MS41 La ppm	ME-MS41 Li ppm	ME-MS41 Mg %	ME-MS41 Mn ppm	ME-MS41 Mo ppm	ME-MS41 Na %	ME-MS41 Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
<b>STANDARDS</b>																
OxJ111																
OxJ111																
Target Range - Lower Bound																
Upper Bound																
OxN92																
Target Range - Lower Bound																
Upper Bound																
PD1																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		0.4	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.2	<0.01	<5	<0.05	<0.01	0.06
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05
BLANK		0.3	<0.01	<0.05	<0.05	0.02	<0.01	<0.005	<0.01	<0.2	0.1	<0.01	<5	<0.05	<0.01	0.06
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05
BLANK		0.3	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.2	<0.01	<5	<0.05	<0.01	0.06
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.1	<0.01	<5	<0.05	<0.01	<0.05
Target Range - Lower Bound		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05
Upper Bound		0.4	0.02	0.10	0.10	0.04	0.02	0.010	0.02	0.4	0.2	0.02	10	0.10	0.02	0.10

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**QC CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm	ME-MS41 Ti %
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
<b>STANDARDS</b>																
OxJ111																
OxJ111																
Target Range - Lower Bound																
Upper Bound																
OxN92																
Target Range - Lower Bound																
Upper Bound																
PD1																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.2	<10	<0.2	<0.1	<0.001	0.01	<0.05	0.1	0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		<0.2	<10	0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		<0.2	<10	<0.2	<0.1	<0.001	<0.01	0.05	<0.1	<0.2	0.3	<0.2	<0.01	<0.01	<0.2	<0.005
Target Range - Lower Bound		<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
Upper Bound		0.4	20	0.4	0.2	0.002	0.02	0.10	0.2	0.4	0.4	0.4	0.02	0.02	0.4	0.010

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**QC CERTIFICATE OF ANALYSIS VA13166703**

	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
Sample Description	Analyte	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.05	1	0.05	0.05	2	0.5
<b>STANDARDS</b>								
OxJ111								
OxJ111								
Target Range - Lower Bound								
Upper Bound								
OxN92								
Target Range - Lower Bound								
Upper Bound								
PD1								
Target Range - Lower Bound								
Upper Bound								
<b>BLANKS</b>								
BLANK								
BLANK								
BLANK								
BLANK								
Target Range - Lower Bound								
Upper Bound								
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
Target Range - Lower Bound		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
Upper Bound		0.04	0.10	2	0.10	0.10	4	1.0

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**QC CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
		<b>DUPLICATES</b>														
ORIGINAL			0.01	0.02	2.0	<0.2	<10	10	0.13	<0.01	>25.0	0.01	1.78	0.5	1	<0.05
DUP			0.01	0.02	4.0	<0.2	<10	10	0.12	<0.01	>25.0	0.02	1.85	0.5	1	0.05
Target Range - Lower Bound			<0.01	<0.01	2.8	<0.2	<10	<10	0.07	<0.01	23.7	<0.01	1.70	0.4	<1	<0.05
Upper Bound			0.02	0.03	3.3	0.4	20	20	0.18	0.02	>25.0	0.02	1.93	0.6	2	0.10
7019			0.14	2.80	23.1	<0.2	<10	70	0.34	0.09	1.06	0.36	9.37	36.7	122	2.07
DUP			0.14	2.86	26.9	<0.2	<10	70	0.34	0.11	1.06	0.40	10.20	40.3	125	2.22
Target Range - Lower Bound			0.12	2.68	23.7	<0.2	<10	50	0.27	0.09	1.00	0.35	9.28	36.5	116	1.99
Upper Bound			0.16	2.98	26.4	0.4	20	90	0.41	0.12	1.12	0.41	10.30	40.5	131	2.30
7043		0.006														
DUP		0.005														
Target Range - Lower Bound		0.004														
Upper Bound		0.007														
7055			0.10	2.64	27.5	<0.2	<10	50	0.40	0.07	0.79	0.24	14.50	37.4	116	1.86
DUP			0.10	2.66	28.5	<0.2	<10	60	0.44	0.07	0.79	0.23	14.70	37.7	117	1.85
Target Range - Lower Bound			0.09	2.51	26.5	<0.2	<10	40	0.35	0.06	0.74	0.21	13.85	35.6	110	1.71
Upper Bound			0.12	2.79	29.5	0.4	20	70	0.49	0.08	0.84	0.26	15.35	39.5	123	2.00
7091			0.29	2.51	15.9	<0.2	<10	100	0.51	0.13	0.81	1.75	19.30	30.2	139	1.68
DUP			0.28	2.31	16.5	<0.2	<10	90	0.56	0.14	0.76	1.79	18.75	31.5	130	1.71
Target Range - Lower Bound			0.26	2.28	15.3	<0.2	<10	80	0.46	0.12	0.74	1.67	18.05	29.2	127	1.56
Upper Bound			0.31	2.54	17.1	0.4	20	110	0.61	0.15	0.83	1.87	20.00	32.5	142	1.83
7120		0.003														
DUP		0.002														
Target Range - Lower Bound		<0.001														
Upper Bound		0.004														
7127			0.04	1.72	2.6	<0.2	30	30	0.18	0.04	0.74	0.21	7.90	51.8	254	1.30
DUP			0.04	1.79	2.5	<0.2	30	30	0.19	0.04	0.81	0.20	8.82	51.9	268	1.31
Target Range - Lower Bound			0.03	1.66	2.3	<0.2	20	20	0.13	0.03	0.73	0.18	7.92	49.2	247	1.19
Upper Bound			0.05	1.85	2.8	0.4	40	40	0.24	0.05	0.82	0.23	8.80	54.5	275	1.42
7140		0.002														
DUP		0.002														
Target Range - Lower Bound		<0.001														
Upper Bound		0.003														



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Project: Exploration

**QC CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
<b>DUPLICATES</b>																
ORIGINAL		1.5	0.08	0.07	<0.05	<0.02	0.16	<0.005	0.01	1.0	0.3	0.29	88	0.07	<0.01	0.08
DUP		1.1	0.08	0.07	<0.05	<0.02	0.19	<0.005	0.01	1.0	0.3	0.29	89	0.06	<0.01	0.08
Target Range - Lower Bound		1.1	0.07	<0.05	<0.05	<0.02	0.15	<0.005	<0.01	0.8	0.2	0.27	79	<0.05	<0.01	<0.05
Upper Bound		1.5	0.09	0.10	0.10	0.04	0.20	0.010	0.02	1.3	0.4	0.31	98	0.10	0.02	0.10
7019		163.0	4.31	6.02	0.11	0.05	0.04	0.019	0.04	4.4	21.3	2.26	726	1.43	0.01	1.03
DUP		177.0	4.41	6.14	0.11	0.05	0.04	0.021	0.05	4.7	22.8	2.29	774	1.53	0.01	1.16
Target Range - Lower Bound		164.0	4.13	5.73	<0.05	0.03	0.03	0.014	0.03	4.1	20.8	2.15	708	1.36	<0.01	0.99
Upper Bound		176.0	4.59	6.43	0.17	0.07	0.05	0.026	0.06	5.0	23.3	2.40	793	1.60	0.02	1.20
7043																
DUP																
Target Range - Lower Bound																
Upper Bound																
7055		143.0	4.38	6.07	0.05	0.06	0.03	0.023	0.04	6.2	18.2	2.20	896	1.03	<0.01	1.18
DUP		143.5	4.42	6.05	0.05	0.07	0.02	0.023	0.04	6.3	18.0	2.20	913	1.09	<0.01	1.18
Target Range - Lower Bound		138.0	4.17	5.71	<0.05	0.04	<0.01	0.017	0.03	5.7	17.1	2.08	854	0.96	<0.01	1.07
Upper Bound		148.5	4.63	6.41	0.10	0.09	0.04	0.029	0.05	6.8	19.1	2.32	955	1.16	0.02	1.29
7091		108.5	4.14	6.60	0.06	<0.02	0.08	0.027	0.05	9.9	24.1	2.05	884	4.46	0.01	1.27
DUP		111.0	3.89	6.74	0.06	0.02	0.08	0.032	0.04	9.2	24.7	1.90	795	4.66	<0.01	1.39
Target Range - Lower Bound		105.5	3.80	6.29	<0.05	<0.02	0.06	0.023	0.03	8.9	23.1	1.87	793	4.28	<0.01	1.21
Upper Bound		114.0	4.23	7.05	0.10	0.04	0.10	0.036	0.06	10.2	25.7	2.08	886	4.84	0.02	1.45
7120																
DUP																
Target Range - Lower Bound																
Upper Bound																
7127		30.4	4.61	3.35	0.12	0.05	0.01	0.015	0.02	3.7	15.8	7.42	728	0.53	<0.01	0.24
DUP		29.8	4.69	3.29	0.13	0.04	0.01	0.016	0.02	4.3	13.6	7.65	760	0.56	<0.01	0.25
Target Range - Lower Bound		28.8	4.41	3.10	0.07	<0.02	<0.01	0.010	<0.01	3.6	13.9	7.15	702	0.47	<0.01	0.18
Upper Bound		31.4	4.89	3.54	0.18	0.07	0.02	0.021	0.03	4.4	15.5	7.92	786	0.62	0.02	0.31
7140																
DUP																
Target Range - Lower Bound																
Upper Bound																

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**QC CERTIFICATE OF ANALYSIS VA13166703**

Method Analyte Units LOR	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm	ME-MS41 Ti %
Sample Description	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
<b>DUPLICATES</b>															
ORIGINAL	0.3	140	1.4	0.2	<0.001	0.01	0.92	0.3	0.5	<0.2	214	<0.01	0.01	0.2	<0.005
DUP	0.4	140	1.4	0.2	<0.001	0.01	0.92	0.3	0.4	<0.2	213	<0.01	0.01	0.2	<0.005
Target Range - Lower Bound	<0.2	120	1.1	<0.1	<0.001	<0.01	0.80	0.2	<0.2	<0.2	203	<0.01	<0.01	<0.2	<0.005
Upper Bound	0.4	160	1.7	0.3	0.002	0.02	1.04	0.4	0.7	0.4	224	0.02	0.02	0.4	0.010
7019	54.2	600	6.8	3.5	0.001	0.04	0.64	9.9	1.5	0.3	33.0	<0.01	0.31	0.6	0.142
DUP	57.3	640	7.2	3.7	0.001	0.04	0.71	10.2	1.7	0.4	33.3	<0.01	0.32	0.6	0.138
Target Range - Lower Bound	52.8	580	6.5	3.3	<0.001	0.03	0.57	9.4	1.3	<0.2	31.3	<0.01	0.29	0.4	0.128
Upper Bound	58.7	660	7.6	3.9	0.002	0.05	0.78	10.7	1.9	0.4	35.0	0.02	0.34	0.8	0.152
7043															
DUP															
Target Range - Lower Bound															
Upper Bound															
7055	66.3	560	5.4	3.3	0.001	<0.01	0.57	11.3	1.1	0.4	32.0	<0.01	0.11	0.9	0.153
DUP	65.8	560	5.4	3.3	<0.001	<0.01	0.58	11.4	1.4	0.3	31.5	<0.01	0.10	0.9	0.153
Target Range - Lower Bound	62.5	520	4.9	3.0	<0.001	<0.01	0.48	10.7	1.0	<0.2	30.0	<0.01	0.09	0.7	0.140
Upper Bound	69.6	600	5.9	3.6	0.002	0.02	0.67	12.0	1.5	0.4	33.5	0.02	0.12	1.1	0.166
7091	73.7	810	10.1	6.6	0.004	0.04	1.43	6.8	2.2	0.6	55.0	<0.01	0.06	0.9	0.076
DUP	76.5	750	11.1	6.8	0.004	0.04	1.53	7.1	2.6	0.7	57.4	<0.01	0.08	0.9	0.073
Target Range - Lower Bound	71.1	730	9.9	6.3	0.003	0.03	1.32	6.5	2.1	0.4	53.2	<0.01	0.06	0.7	0.066
Upper Bound	79.1	830	11.3	7.1	0.005	0.05	1.64	7.4	2.7	0.9	59.2	0.02	0.08	1.1	0.083
7120															
DUP															
Target Range - Lower Bound															
Upper Bound															
7127	199.5	280	2.4	2.2	0.001	0.02	0.20	7.3	0.5	0.2	17.7	<0.01	0.02	0.7	0.062
DUP	210	310	2.4	2.3	0.001	0.02	0.19	7.8	0.5	0.2	18.6	<0.01	0.02	1.1	0.068
Target Range - Lower Bound	194.5	270	2.1	2.0	<0.001	<0.01	0.13	7.1	0.3	<0.2	17.0	<0.01	<0.01	0.7	0.057
Upper Bound	215	320	2.7	2.5	0.002	0.03	0.26	8.0	0.7	0.4	19.3	0.02	0.03	1.1	0.073
7140															
DUP															
Target Range - Lower Bound															
Upper Bound															

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**QC CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.02	0.05	1	0.05	0.05	2	0.5
<b>DUPLICATES</b>								
ORIGINAL		0.05	0.12	<1	4.77	0.74	4	0.6
DUP		0.05	0.11	<1	4.66	0.74	3	0.5
Target Range - Lower Bound		0.03	0.06	<1	4.31	0.65	<2	<0.5
Upper Bound		0.07	0.17	2	5.12	0.83	4	1.0
7019		0.05	0.38	104	0.18	6.24	74	1.5
DUP		0.05	0.41	106	0.18	6.65	78	1.5
Target Range - Lower Bound		0.03	0.33	99	0.12	6.07	70	0.9
Upper Bound		0.07	0.46	111	0.24	6.82	82	2.1
7043								
DUP								
Target Range - Lower Bound								
Upper Bound								
7055		0.05	0.47	93	0.16	7.47	68	1.5
DUP		0.04	0.47	93	0.14	7.31	69	1.5
Target Range - Lower Bound		<0.02	0.40	87	0.09	6.97	63	0.9
Upper Bound		0.07	0.54	99	0.21	7.81	74	2.1
7091		0.16	1.46	82	0.37	7.67	141	0.7
DUP		0.16	1.48	74	2.39	8.14	128	0.7
Target Range - Lower Bound		0.13	1.35	73	1.23	7.46	126	<0.5
Upper Bound		0.19	1.59	83	1.53	8.35	143	1.0
7120								
DUP								
Target Range - Lower Bound								
Upper Bound								
7127		0.02	0.26	53	0.06	3.57	62	1.3
DUP		0.02	0.28	56	0.07	3.70	64	1.4
Target Range - Lower Bound		<0.02	0.21	51	<0.05	3.40	58	0.7
Upper Bound		0.04	0.33	58	0.10	3.87	68	2.0
7140								
DUP								
Target Range - Lower Bound								
Upper Bound								



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Project: Exploration

**QC CERTIFICATE OF ANALYSIS VA13166703**

Method Analyte Units LOR	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	ME-MS41	ME-MS41	
Sample Description	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	
	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	
<b>DUPLICATES</b>																
ORIGINAL	0.038															
DUP	0.036															
Target Range - Lower Bound	0.034															
Upper Bound	0.040															
ORIGINAL	0.062															
DUP	0.084															
Target Range - Lower Bound	0.068															
Upper Bound	0.078															
ORIGINAL	0.140															
DUP	0.135															
Target Range - Lower Bound	0.130															
Upper Bound	0.145															
ORIGINAL	0.146															
DUP	0.120															
Target Range - Lower Bound	0.125															
Upper Bound	0.141															
ORIGINAL	0.062															
DUP	0.064															
Target Range - Lower Bound	0.059															
Upper Bound	0.067															
ORIGINAL	0.067															
DUP	0.064															
Target Range - Lower Bound	0.061															
Upper Bound	0.070															

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**QC CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm	ME-MS41 Fe %	ME-MS41 Ga ppm	ME-MS41 Ge ppm	ME-MS41 Hf ppm	ME-MS41 Hg ppm	ME-MS41 In ppm	ME-MS41 K %	ME-MS41 La ppm	ME-MS41 Li ppm	ME-MS41 Mg %	ME-MS41 Mn ppm	ME-MS41 Mo ppm	ME-MS41 Na %	ME-MS41 Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>															
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>															
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																

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**QC CERTIFICATE OF ANALYSIS VA13166703**

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
<b>DUPLICATES</b>								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								

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**QC CERTIFICATE OF ANALYSIS VA13166703**

<b>CERTIFICATE COMMENTS</b>									
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).            ME-MS41</p>								
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> <td style="width: 33%;">ME-MS41</td> </tr> <tr> <td>SCR-41</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	Au-ICP21	LOG-22	LOG-24	ME-MS41	SCR-41	WEI-21		
Au-ICP21	LOG-22	LOG-24	ME-MS41						
SCR-41	WEI-21								



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**QC CERTIFICATE VA13166705**

Project: Exploration  
 P.O. No.:  
 This report is for 22 Rock samples submitted to our lab in Vancouver, BC, Canada on 13-SEP-2013.  
 The following have access to data associated with this certificate:  
 PATRICIA FONG                      MICHAEL GUO                      LEO ZHU

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: CHINA MINERALS CORP. LTD.  
 ATTN: MICHAEL GUO  
 SUITE 490-1111 MELVILLE ST.  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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**QC CERTIFICATE OF ANALYSIS VA13166705**

Method Analyte Units LOR	Au-ICP21 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
<b>STANDARDS</b>															
GBM908-10		2.74	0.94	54.9	0.5	<10	110	0.26	1.16	0.69	1.73	85.1	13.5	22	0.81
GBM908-10		2.97	0.92	58.7	0.4	<10	100	0.32	1.27	0.65	1.64	91.0	14.6	21	0.78
GBM908-10		2.82	0.93	55.9	0.4	<10	100	0.31	1.16	0.67	1.72	84.6	14.0	22	0.77
Target Range - Lower Bound		2.69	0.85	49.4	<0.2	<10	70	0.17	1.12	0.62	1.52	79.3	12.9	20	0.66
Upper Bound		3.31	1.06	60.6	0.9	30	140	0.40	1.39	0.79	1.88	97.0	15.9	27	0.94
GLG307-4	0.049														
Target Range - Lower Bound	0.048														
Upper Bound	0.056														
MRGeo08		4.04	2.70	31.3	<0.2	<10	460	0.67	0.65	1.06	2.09	76.8	18.1	92	11.75
MRGeo08		4.28	2.63	31.3	<0.2	<10	450	0.79	0.75	1.09	2.37	78.5	19.7	90	10.80
MRGeo08		4.43	2.52	33.2	<0.2	10	440	0.78	0.68	1.01	2.12	72.2	19.4	89	10.55
MRGeo08		4.71	2.67	35.1	<0.2	<10	460	0.91	0.74	1.14	2.46	79.9	20.5	95	11.10
Target Range - Lower Bound		4.00	2.44	28.9	<0.2	<10	370	0.66	0.62	1.00	2.01	66.7	17.5	81	9.85
Upper Bound		4.92	3.00	35.5	0.6	20	530	0.94	0.78	1.24	2.47	81.5	21.6	102	12.15
OxJ111	2.14														
Target Range - Lower Bound	2.04														
Upper Bound	2.30														
<b>BLANKS</b>															
BLANK	0.001														
Target Range - Lower Bound	<0.001														
Upper Bound	0.002														
BLANK		<0.01	<0.01	<0.1	<0.2	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05
BLANK		<0.01	<0.01	<0.1	<0.2	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05
BLANK		<0.01	<0.01	<0.1	<0.2	<10	<10	<0.05	0.02	<0.01	<0.01	<0.02	<0.1	<1	<0.05
BLANK		<0.01	<0.01	<0.1	<0.2	<10	<10	<0.05	0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05
Target Range - Lower Bound		<0.01	<0.01	<0.1	<0.2	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05
Upper Bound		0.02	0.02	0.2	0.4	20	20	0.10	0.02	0.02	0.02	0.04	0.2	2	0.10

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**QC CERTIFICATE OF ANALYSIS VA13166705**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
<b>STANDARDS</b>																
GBM908-10		3680	2.63	4.79	0.25	0.76	0.02	0.022	0.43	45.8	5.8	0.53	293	61.7	0.11	0.41
GBM908-10		3490	2.53	4.83	0.12	0.74	0.03	0.025	0.42	48.7	6.3	0.52	275	62.4	0.13	0.40
GBM908-10		3540	2.63	4.66	0.12	0.59	0.01	0.017	0.42	44.2	5.9	0.53	296	62.6	0.12	0.39
Target Range - Lower Bound		3380	2.35	4.18	0.09	0.62	<0.01	0.012	0.37	43.2	5.6	0.47	259	57.9	0.09	0.38
Upper Bound		3880	2.89	5.22	0.31	0.80	0.04	0.034	0.48	53.2	7.1	0.59	327	70.9	0.15	0.63
GLG307-4																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		641	3.61	9.93	0.29	0.77	0.07	0.159	1.30	38.7	30.9	1.16	410	15.80	0.32	1.22
MRGeo08		624	3.57	10.90	0.21	0.72	0.06	0.170	1.31	37.1	38.8	1.15	402	15.70	0.33	0.84
MRGeo08		621	3.44	9.90	0.17	0.80	0.07	0.156	1.25	36.4	31.0	1.11	394	14.30	0.31	0.89
MRGeo08		640	3.74	10.50	0.19	0.86	0.07	0.165	1.30	38.9	36.1	1.21	446	15.45	0.34	1.31
Target Range - Lower Bound		587	3.22	8.89	0.10	0.67	0.04	0.142	1.12	33.2	30.2	1.03	378	13.10	0.30	0.79
Upper Bound		675	3.96	10.95	0.32	0.87	0.10	0.184	1.40	41.0	37.2	1.29	473	16.10	0.39	1.09
OxJ111																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	0.01	0.006	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05
BLANK		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05
Target Range - Lower Bound		<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05
Upper Bound		0.4	0.02	0.10	0.10	0.04	0.02	0.010	0.02	0.4	0.2	0.02	10	0.10	0.02	0.10



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**QC CERTIFICATE OF ANALYSIS VA13166705**

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm	ME-MS41 Ti %
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
<b>STANDARDS</b>																
GBM908-10		2250	860	2100	31.2	0.001	0.38	1.45	2.1	1.1	1.7	32.4	0.01	0.04	16.1	0.309
GBM908-10		2180	830	2020	29.6	0.002	0.36	1.39	1.9	0.8	1.7	34.5	<0.01	0.04	18.2	0.296
GBM908-10		2170	840	2050	28.3	0.001	0.37	1.33	1.9	1.2	1.7	31.9	<0.01	0.04	16.8	0.297
Target Range - Lower Bound		2030	760	1860	27.6	<0.001	0.33	1.06	1.8	0.5	1.2	30.8	<0.01	0.02	15.2	0.276
Upper Bound		2480	960	2270	34.0	0.003	0.43	1.55	2.4	1.3	2.2	38.0	0.03	0.07	19.0	0.348
GLG307-4																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		692	1030	1090	150.5	0.009	0.31	3.45	8.1	1.8	3.5	79.0	0.02	0.02	20.4	0.379
MRGeo08		680	980	1070	154.0	0.008	0.31	3.55	7.9	1.6	3.9	84.2	0.02	0.02	23.4	0.379
MRGeo08		679	990	1055	145.0	0.009	0.28	3.18	7.7	1.5	3.2	78.8	0.01	0.02	21.7	0.371
MRGeo08		712	1050	1120	148.5	0.008	0.32	3.43	8.0	1.6	3.7	82.2	0.03	0.01	24.0	0.392
Target Range - Lower Bound		622	900	959	132.0	0.007	0.27	2.80	6.8	0.9	2.8	73.2	<0.01	<0.01	19.5	0.350
Upper Bound		760	1130	1175	162.0	0.011	0.36	3.90	8.6	1.9	4.0	89.9	0.04	0.04	24.3	0.439
OxJ111																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		<0.2	<10	<0.2	<0.1	0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
BLANK		<0.2	<10	<0.2	<0.1	<0.001	<0.01	0.08	<0.1	<0.2	0.2	<0.2	<0.01	<0.01	<0.2	<0.005
Target Range - Lower Bound		<0.2	<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005
Upper Bound		0.4	20	0.4	0.2	0.002	0.02	0.10	0.2	0.4	0.4	0.4	0.02	0.02	0.4	0.010

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



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Project: Exploration

**QC CERTIFICATE OF ANALYSIS VA13166705**

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
<b>STANDARDS</b>								
GBM908-10		0.23	1.16	48	2.17	19.70	1000	32.1
GBM908-10		0.22	1.35	46	1.73	19.60	1010	28.9
GBM908-10		0.21	1.28	49	2.06	19.10	1030	25.6
Target Range - Lower Bound		0.15	1.15	41	1.57	17.55	939	24.0
Upper Bound		0.27	1.51	53	2.24	21.6	1155	33.6
GLG307-4								
Target Range - Lower Bound								
Upper Bound								
MRGeo08		0.80	5.16	102	2.79	19.75	778	23.8
MRGeo08		0.84	6.02	99	2.84	20.9	758	24.2
MRGeo08		0.77	5.37	99	2.91	19.45	785	22.9
MRGeo08		0.84	6.09	110	3.13	21.0	832	24.7
Target Range - Lower Bound		0.66	4.99	90	2.44	17.85	708	18.1
Upper Bound		0.94	6.21	112	3.42	21.9	870	25.7
OxJ111								
Target Range - Lower Bound								
Upper Bound								
<b>BLANKS</b>								
BLANK								
Target Range - Lower Bound								
Upper Bound								
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
BLANK		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
Target Range - Lower Bound		<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
Upper Bound		0.04	0.10	2	0.10	0.10	4	1.0





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**QC CERTIFICATE OF ANALYSIS VA13166705**

Method Analyte Units LOR	Au-ICP21 Au ppm 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
<b>DUPLICATES</b>															
ORIGINAL		0.01	3.09	51.5	<0.2	10	90	1.10	0.30	0.77	0.10	62.4	38.5	160	1.88
DUP		0.02	3.13	51.8	<0.2	10	90	1.15	0.28	0.79	0.10	64.6	37.5	166	1.89
Target Range - Lower Bound		<0.01	2.94	49.0	<0.2	<10	70	1.02	0.27	0.73	0.09	60.3	36.0	154	1.74
Upper Bound		0.02	3.28	54.3	0.4	20	110	1.23	0.31	0.83	0.12	66.7	40.0	172	2.03
ORIGINAL		0.03	1.30	52.8	<0.2	10	30	0.42	0.31	2.01	0.09	38.3	28.7	67	1.10
DUP		0.03	1.32	51.4	<0.2	10	30	0.43	0.29	2.10	0.09	38.5	29.2	69	1.13
Target Range - Lower Bound		0.02	1.23	49.4	<0.2	<10	20	0.35	0.28	1.94	0.08	36.5	27.4	64	1.01
Upper Bound		0.04	1.39	54.8	0.4	20	40	0.50	0.33	2.17	0.10	40.3	30.5	72	1.22
3108	0.006														
DUP	0.007														
Target Range - Lower Bound	0.005														
Upper Bound	0.008														
3110		0.03	1.31	14.5	<0.2	<10	60	0.19	<0.01	7.98	0.06	4.38	16.3	20	3.14
DUP		0.03	1.33	14.3	<0.2	<10	60	0.19	<0.01	8.08	0.06	4.45	16.7	20	3.19
Target Range - Lower Bound		0.02	1.24	13.6	<0.2	<10	50	0.13	<0.01	7.62	0.05	4.17	15.6	18	2.96
Upper Bound		0.04	1.40	15.2	0.4	20	70	0.25	0.02	8.44	0.07	4.66	17.4	22	3.37
ORIGINAL	0.009														
DUP	0.009														
Target Range - Lower Bound	0.008														
Upper Bound	0.010														
ORIGINAL	0.008														
DUP	0.008														
Target Range - Lower Bound	0.007														
Upper Bound	0.009														
ORIGINAL		1.58	0.29	5.0	<0.2	<10	40	0.11	1.50	0.63	0.07	1.10	4.0	12	0.76
DUP		1.61	0.29	4.8	<0.2	<10	40	0.11	1.39	0.61	0.08	1.04	3.7	12	0.72
Target Range - Lower Bound		1.51	0.27	4.6	<0.2	<10	30	<0.05	1.36	0.58	0.06	1.00	3.6	10	0.65
Upper Bound		1.68	0.31	5.2	0.4	20	50	0.17	1.53	0.66	0.09	1.14	4.1	14	0.83

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



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 Account: MINCHI

Project: Exploration

**QC CERTIFICATE OF ANALYSIS VA13166705**

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm	ME-MS41 Fe %	ME-MS41 Ga ppm	ME-MS41 Ge ppm	ME-MS41 Hf ppm	ME-MS41 Hg ppm	ME-MS41 In ppm	ME-MS41 K %	ME-MS41 La ppm	ME-MS41 Li ppm	ME-MS41 Mg %	ME-MS41 Mn ppm	ME-MS41 Mo ppm	ME-MS41 Na %	ME-MS41 Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
<b>DUPLICATES</b>																
ORIGINAL		65.7	5.38	9.12	0.11	0.15	0.04	0.034	0.15	34.4	39.2	1.95	1080	0.68	<0.01	0.45
DUP		67.9	5.44	9.17	0.12	0.15	0.04	0.033	0.16	35.7	40.1	1.98	1110	0.71	<0.01	0.46
Target Range - Lower Bound		64.3	5.13	8.64	0.06	0.12	0.03	0.027	0.14	33.1	37.6	1.86	1035	0.61	<0.01	0.38
Upper Bound		69.3	5.69	9.65	0.17	0.18	0.05	0.040	0.17	37.0	41.7	2.07	1155	0.78	0.02	0.53
ORIGINAL		58.2	4.35	4.27	0.10	0.07	0.24	0.024	0.10	17.2	22.5	1.13	858	0.78	0.01	0.48
DUP		57.3	4.41	4.24	0.08	0.08	0.15	0.025	0.10	17.2	25.5	1.15	870	0.83	0.01	0.47
Target Range - Lower Bound		55.5	4.15	3.99	<0.05	0.05	0.17	0.018	0.09	16.1	22.7	1.07	816	0.71	<0.01	0.40
Upper Bound		60.0	4.61	4.52	0.10	0.10	0.22	0.031	0.12	18.3	25.3	1.21	912	0.90	0.02	0.55
3108																
DUP																
Target Range - Lower Bound																
Upper Bound																
3110		29.1	4.25	5.43	0.09	0.11	0.01	0.031	0.06	1.7	20.4	1.72	1140	0.38	0.01	0.10
DUP		29.6	4.32	5.51	0.09	0.10	0.01	0.033	0.06	1.7	21.3	1.76	1160	0.40	0.01	0.10
Target Range - Lower Bound		28.1	4.06	5.15	<0.05	0.08	<0.01	0.025	0.05	1.4	19.7	1.64	1090	0.32	<0.01	<0.05
Upper Bound		30.6	4.51	5.79	0.10	0.13	0.02	0.039	0.07	2.0	22.0	1.84	1215	0.46	0.02	0.16
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		1630	10.75	10.90	0.57	0.04	0.05	0.121	0.43	0.5	4.3	0.98	143	2.56	<0.01	0.31
DUP		1595	10.90	10.70	0.52	0.04	0.04	0.126	0.42	0.5	4.6	0.99	140	2.49	0.01	0.25
Target Range - Lower Bound		1555	10.25	10.20	0.47	<0.02	0.03	0.112	0.39	0.3	4.1	0.93	129	2.35	<0.01	0.22
Upper Bound		1670	11.40	11.40	0.62	0.06	0.06	0.135	0.46	0.7	4.8	1.04	154	2.70	0.02	0.34

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



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 Account: MINCHI

Project: Exploration

**QC CERTIFICATE OF ANALYSIS VA13166705**

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm	ME-MS41 Ti %
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
<b>DUPLICATES</b>																
ORIGINAL		166.5	270	22.9	9.0	<0.001	0.01	2.37	8.8	1.6	0.6	73.9	<0.01	0.06	8.1	0.024
DUP		168.5	280	24.1	8.9	0.001	0.02	3.39	8.7	1.3	0.7	73.8	<0.01	0.06	8.0	0.026
Target Range - Lower Bound		159.0	250	22.1	8.4	<0.001	<0.01	2.61	8.2	1.2	0.4	70.0	<0.01	0.05	7.4	0.019
Upper Bound		176.0	300	24.9	9.5	0.002	0.02	3.15	9.3	1.7	0.9	77.7	0.02	0.07	8.7	0.031
ORIGINAL		87.8	760	17.3	4.1	<0.001	<0.01	5.74	6.7	0.5	0.3	84.8	<0.01	0.09	5.2	0.036
DUP		87.6	760	17.4	4.1	0.001	<0.01	6.85	6.5	0.5	0.3	85.0	<0.01	0.08	5.2	0.037
Target Range - Lower Bound		83.1	710	16.3	3.8	<0.001	<0.01	5.77	6.2	0.3	<0.2	80.5	<0.01	0.07	4.7	0.030
Upper Bound		92.3	810	18.4	4.4	0.002	0.02	6.82	7.0	0.7	0.4	89.3	0.02	0.10	5.7	0.043
3108																
DUP																
Target Range - Lower Bound																
Upper Bound																
3110		16.5	560	0.6	5.6	<0.001	0.08	0.13	12.7	0.5	0.2	88.4	<0.01	0.01	<0.2	0.062
DUP		17.0	580	0.6	5.7	<0.001	0.07	0.13	12.8	0.4	0.2	90.5	<0.01	0.01	<0.2	0.062
Target Range - Lower Bound		15.7	530	0.4	5.3	<0.001	0.06	0.07	12.0	<0.2	<0.2	84.8	<0.01	<0.01	<0.2	0.054
Upper Bound		17.8	610	0.8	6.0	0.002	0.09	0.19	13.5	0.7	0.4	94.1	0.02	0.02	0.4	0.070
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		1.9	90	2.7	13.2	0.001	0.64	1.41	0.6	3.9	1.2	15.2	<0.01	0.36	1.1	0.014
DUP		1.7	90	2.4	13.2	0.001	0.65	1.49	0.6	3.9	1.3	15.2	<0.01	0.36	1.0	0.014
Target Range - Lower Bound		1.5	80	2.2	12.4	<0.001	0.60	1.29	0.5	3.5	1.0	14.2	<0.01	0.33	0.8	0.008
Upper Bound		2.1	100	2.9	14.0	0.002	0.69	1.61	0.7	4.3	1.5	16.2	0.02	0.39	1.3	0.020

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**QC CERTIFICATE OF ANALYSIS VA13166705**

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
<b>DUPLICATES</b>								
ORIGINAL		0.06	0.38	72	0.10	19.05	86	5.2
DUP		0.06	0.39	75	0.11	18.75	90	5.1
Target Range - Lower Bound		0.04	0.32	69	<0.05	17.90	82	4.3
Upper Bound		0.08	0.45	78	0.16	19.90	94	6.0
ORIGINAL		0.02	0.43	49	0.24	9.64	86	2.5
DUP		0.04	0.43	50	0.24	9.52	88	2.4
Target Range - Lower Bound		<0.02	0.36	46	0.17	9.05	81	1.8
Upper Bound		0.04	0.50	53	0.31	10.10	93	3.1
3108								
DUP								
Target Range - Lower Bound								
Upper Bound								
3110		0.06	0.06	91	0.44	12.75	39	2.5
DUP		0.06	0.06	92	0.42	13.15	40	2.5
Target Range - Lower Bound		0.04	<0.05	86	0.35	12.25	36	1.8
Upper Bound		0.08	0.10	97	0.51	13.65	43	3.2
ORIGINAL								
DUP								
Target Range - Lower Bound								
Upper Bound								
ORIGINAL								
DUP								
Target Range - Lower Bound								
Upper Bound								
ORIGINAL		0.17	1.73	20	21.7	0.72	13	2.0
DUP		0.16	1.51	20	22.4	0.70	12	1.9
Target Range - Lower Bound		0.13	1.49	18	20.3	0.62	10	1.3
Upper Bound		0.20	1.75	22	23.8	0.80	15	2.6



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**QC CERTIFICATE OF ANALYSIS VA13166705**

	<b>CERTIFICATE COMMENTS</b>												
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>Interference: Samples with Ca &gt; 10% on ICP-MS As. ICP-AES As results reported (2 ppm DL)            ME-MS41</p> <p>Applies to Method: ME-MS41</p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).            ME-MS41</p>												
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> </tr> <tr> <td>LOG-24</td> <td>ME-MS41</td> <td>PUL-31</td> <td>PUL-QC</td> </tr> <tr> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	Au-ICP21	CRU-31	CRU-QC	LOG-22	LOG-24	ME-MS41	PUL-31	PUL-QC	SPL-21	WEI-21		
Au-ICP21	CRU-31	CRU-QC	LOG-22										
LOG-24	ME-MS41	PUL-31	PUL-QC										
SPL-21	WEI-21												

# **Appendix 3**

## **Statement of Expenditures**

**(Compiled by Michael Guo, Patricia Fong and Lynn Grexton)**

<b>Cassiar Gold Corp. 2013 Program</b>			
<b>Excludes PST/GST</b>			
<b>Pre-Field Compilation &amp; Planning</b>	<b>Details</b>	<b>Subtotal</b>	<b>Total</b>
Michael Guo	8.5 days @ \$600/day	5,100.00	
Food & Lodging		584.06	
Remote Sensing	BlackBridge Geomatics - Rapideye 3A tiles	728.32	
			<b>6,412.38</b>
<b>Exploration Program</b>			
<b>Personnel / Position</b>	<b>Dates Worked (including mob-demob)</b>	<b>Subtotal</b>	
Michael Guo - Chief Geologist	Aug 15~22 (1/2), Aug 29 (1/2) ~ Sept 13	13,800.00	
William Kahlert - Prospector	Aug 7, 9,12,13 (@1/2 day), Aug 14~Sept 1~10	10,500.00	
Max Ryan - Geologist	Aug 15 ~ Sept 4	6,615.00	
Daniel Guestrin - Jr. Geologist	Aug 15 ~ Sept10	8,100.00	
Angelina Dennis - 1st Aid & sampler	Aug 22 ~ Sept 8	5,040.00	
Karen Lam - helper	Aug 15 ~ Sept 15	3,833.40	
Patricia Fong -office support	Aug 1 to Sept 20th	2,000.00	
Karen Lam -office support	Aug 1 to Aug 14	875.00	
			<b>\$50,763.40</b>
<b>Geochemical Analyses</b>	<b>Samples</b>	<b>Subtotal</b>	
ALS Minerals, North Vancouver	Stream sediment (202) & soils (10)	10,045.63	
Sample prep for sediment PREP41, rock PREP31			
Au ICP21 FA ICP-AES finish (30 g sample); ME-S41 51 Ultratrace (includes blanks and standards)	Rock 22 @ \$47.25	1,039.49	
			<b>\$11,085.12</b>
<b>Transportation: Air</b>		<b>Subtotal</b>	
Airfare (mob & demob)	Air Canada, NT Air	10,376.04	
Helicopter	Pacific Western Helicopters (15.50 hours @ \$966/ hour)	14,973.00	
	Fuel charge	3,127.59	
			<b>\$28,476.63</b>
<b>Transportation: Ground Aug 15 to Sept 13</b>		<b>Subtotal</b>	
Truck- Dodge (including insurance & mileage)	30 days @ \$180/day	5,400.00	
Truck-Toyota (including insurance & mileage)	30 days @ \$180/day	5,400.00	
ATV	24 days @ \$100/day	2,400.00	
Fuel (truck & ATVS)	Dease Lake Super A; Northwest Fuels Ltd.	1,497.81	
Maintenance & Repair	CHD Holdings	5,111.99	
			<b>\$19,809.80</b>
<b>Accommodation &amp; Food</b>	<b>Rates per day</b>	<b>Subtotal</b>	
Hotel, Cabin & Room rentals	6 days @ \$200/day	1,200.00	
Field Camp	Accommodation ( \$80/ manday)	11,520.00	
	Kitchen facilities (\$250/day)	6,000.00	
Groceries	Dease Lake Super A - groceries	4,790.84	
Cook (Aug 16~21)	Char's Bed & Breakfast (6 days @ \$275)	1,650.00	
Cook (Aug 22~Sept 9)	Karen Lam (19 days @ \$175)	3,325.00	
			<b>\$28,485.84</b>
<b>Communications</b>		<b>Subtotal</b>	
Satellite phones (rental)	Alltypes Communication	738.73	
Cabin internet & phone	Char's Bed & Breakfast (6 days @ \$100)	600.00	
			<b>\$1,338.73</b>
<b>Field Equipment</b>		<b>Subtotal</b>	
Field Supplies (consumables)	batteries, sample bags, flagging, markers, bear bangers	2,883.31	
Fuel - Diesel (camp use & generator)	Northwest Fuels Ltd.	6,037.83	
Maintenance & Repair	Finning and Bandstrar	484.49	
			<b>\$9,405.63</b>
<b>Report</b>		<b>Subtotal</b>	
Primary data compilation & writing	Michael Guo (10.5 days @ \$600/day)	6,300.00	
Database & file management	Patricia Fong (1.5 days @ \$400/day)	600.00	
Creating 5,000 scale maps & report addendum	Lynn Grexton ( 32 hrs @ \$75/hr)	2,400.00	
			<b>\$9,300.00</b>
			<b>Subtotal</b>
			<b>\$165,077.53</b>
<b>Miscellaneous</b>	(field equipment- axes, shovels,sieves, gps, radios, reproduc	2.5%	<b>\$4,126.94</b>
			<b>TOTAL</b>
			<b>\$169,204.47</b>

## **Appendix 4**

### **Statement of Qualifications**



## Statement of Qualifications

I, Michael Guo, resident of Scarborough, Ontario, do certify that:

1. I graduated from the University of Science and Technology of China in 2000 with a Ph.D. in Geochemistry and Central South University with a M.Sc. and B. Eng. in Geology in 1990 and 1985, respectively.
2. I am a member in good standing of the Association of Professional Engineers and Geoscientists of Ontario (License #2312), and Association of Professional Engineers and Geologist of Alberta (License #83289).
3. From 1985 to present, I have been actively engaged in mineral exploration and research in China, Canada and Australia excluding the period from 2000 to 2004.
4. I am presently employed with the China Minerals Corp. as a contract Chief Geologist;
5. I have personally participated in the project management , fieldwork and analysis of data for the filed undertakings herein.
6. I don't hold any stocks or options in China Minerals Corp.

Respectfully Submitted,

"Michael Guo"

Michael Guo, Ph.D., P. Geo, Chief Geologist

December 28, 2013

## Statement of Qualifications

I, Lynn Grexton, a resident in British Columbia, hereby declare that:

I am a graduate of the University of Waterloo (1980) and hold a BSc (honours) in Earth Sciences;

I have worked on regional and property field mineral exploration programs within Canada for precious metals, base metals, tungsten and uranium between 1977 to 1997;

Since 1992 to present I have generated grass-roots exploration targets and directed field work on my own mineral claims in British Columbia and have reviewed/compiled/evaluated various data sets for third parties pertaining to precious metals, base metals, diamonds, nickel and uranium in a variety of settings within Canada;

I do not own common shares or hold options of Cassiar Gold Corp.;

My contribution to this assessment report by Micheal Guo includes amendments and additions to the table of contents, a tabulation of work on each claim, the statement of expenditures, appendices and the construction of maps at 1:5000 scale showing sample locations and gold results.

"Lynn Grexton"

Vancouver BC. March 20, 2014

460000 mE

461000 mE

462000 mE

463000 mE

464000 mE

465000 mE

6555000 mN

6555000 mN

6554000 mN

6554000 mN

6553000 mN

6553000 mN

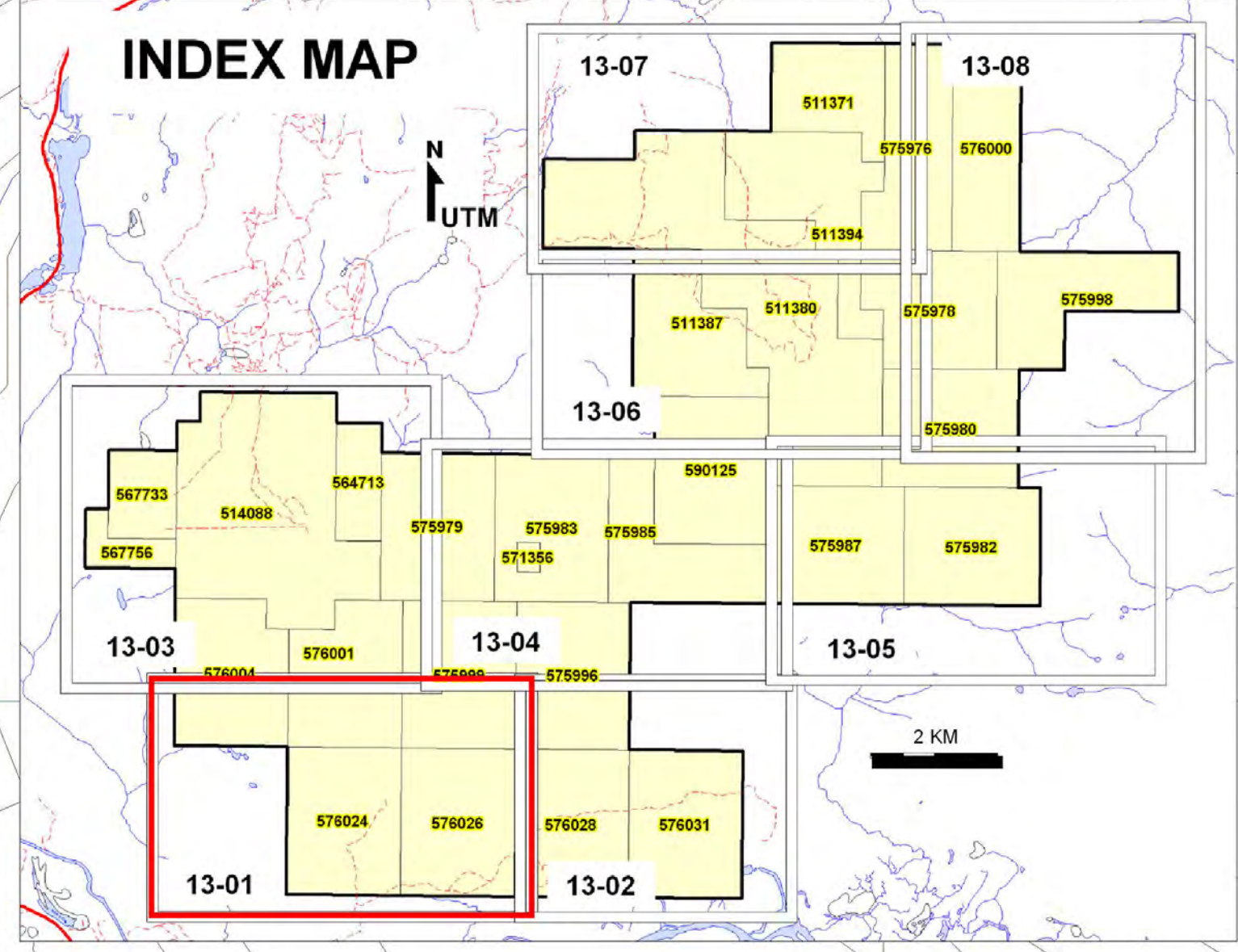
460000 mE

461000 mE

462000 mE

463000 mE

464000 mE



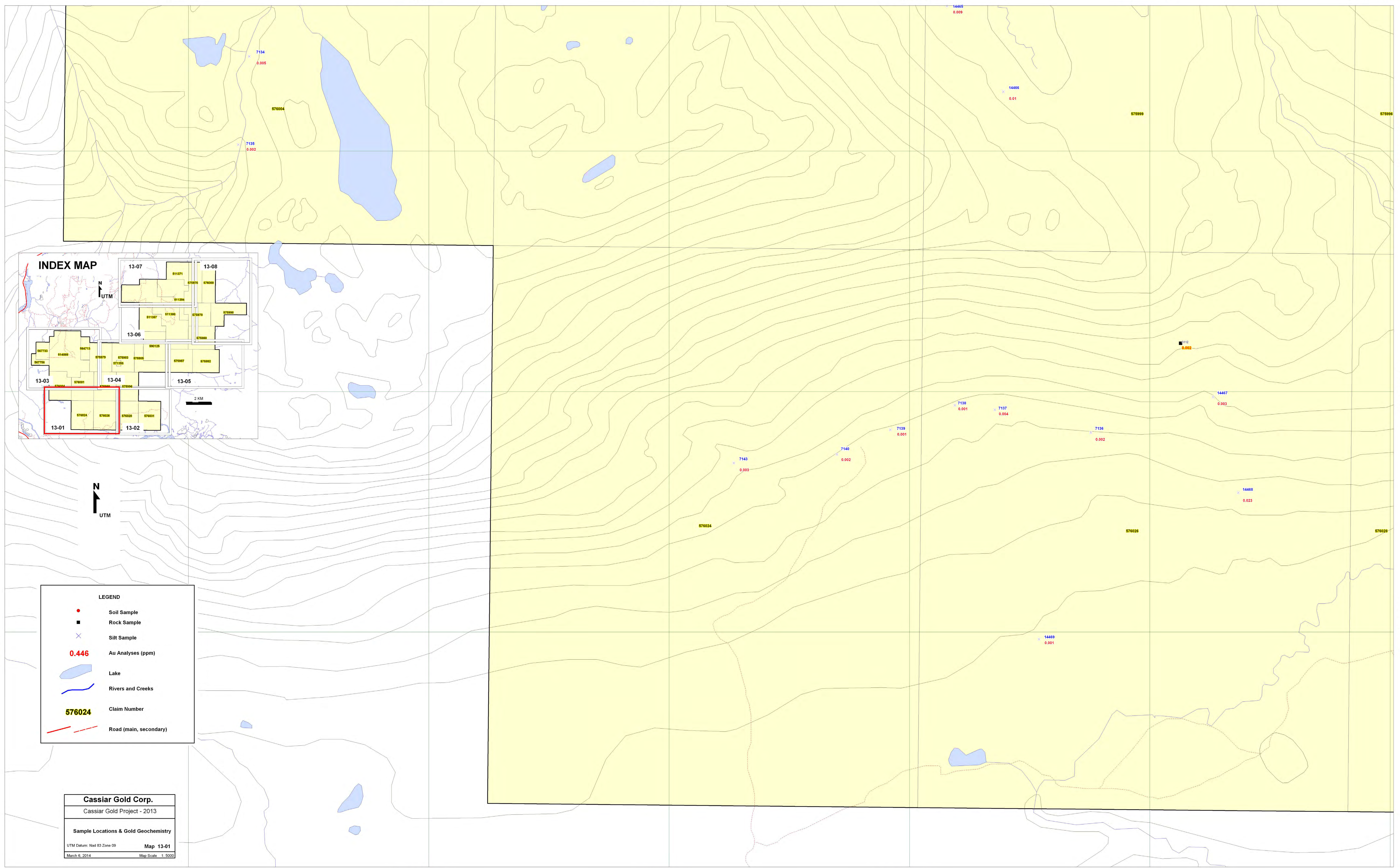
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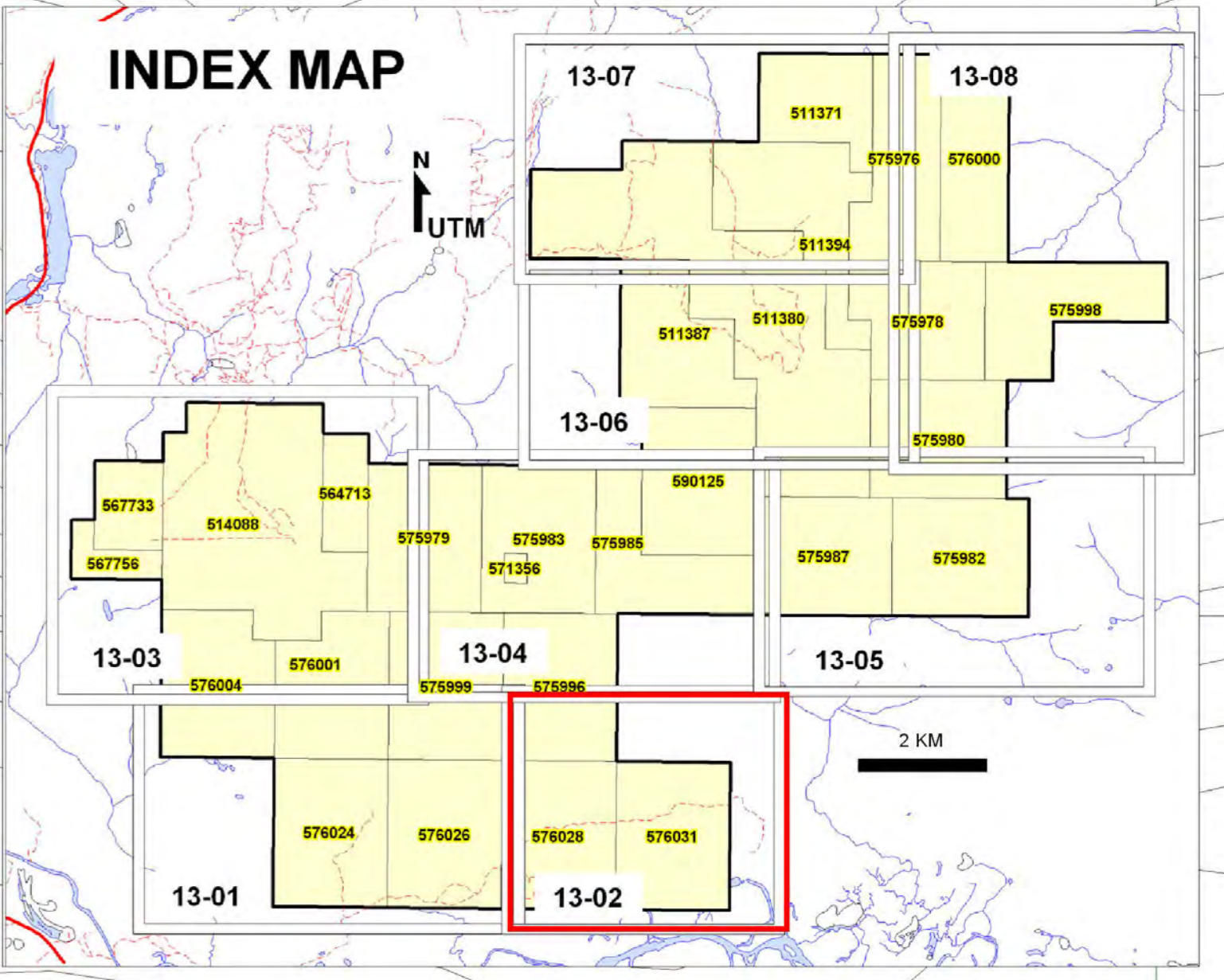
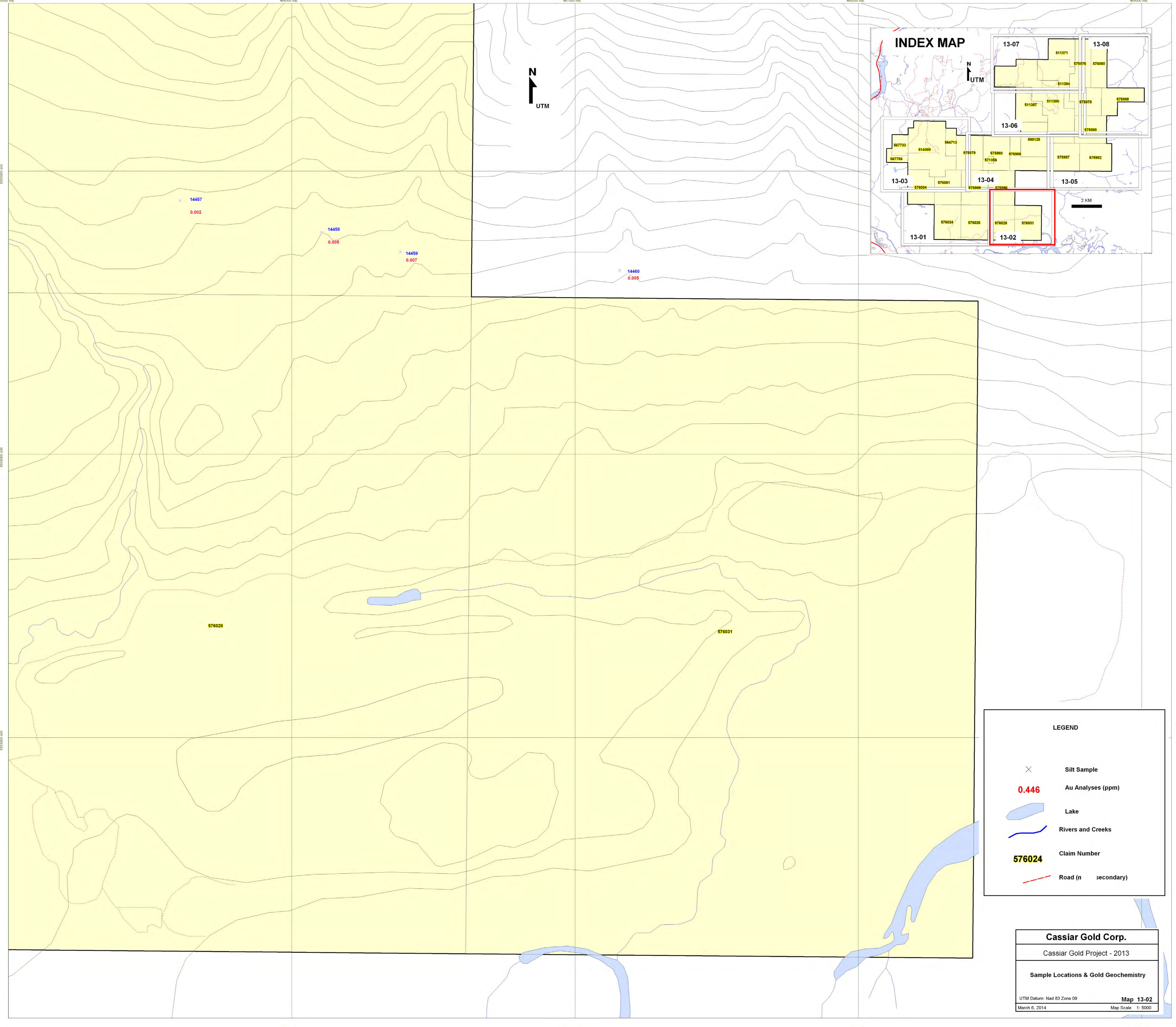
- Soil Sample
- Rock Sample
- × Silt Sample
- 0.446 Au Analyses (ppm)
- Lake
- Rivers and Creeks
- 576024 Claim Number
- Road (main, secondary)

**Cassiar Gold Corp.**  
Cassiar Gold Project - 2013

Sample Locations & Gold Geochemistry

UTM Datum: Nad 83 Zone 09      Map 13-01  
March 6, 2014      Map Scale: 1:5000





N  
UTM

**LEGEND**

- Silt Sample
- Au Analyses (ppm)
- Lake
- Rivers and Creeks
- Claim Number
- Road (n secondary)

**Cassiar Gold Corp.**  
 Cassiar Gold Project - 2013

**Sample Locations & Gold Geochemistry**

UTM Datum: Nad 83 Zone 09 **Map 13-02**  
 March 6, 2014 Map Scale: 1: 5000

x 14457  
0.002

x 14458  
0.005

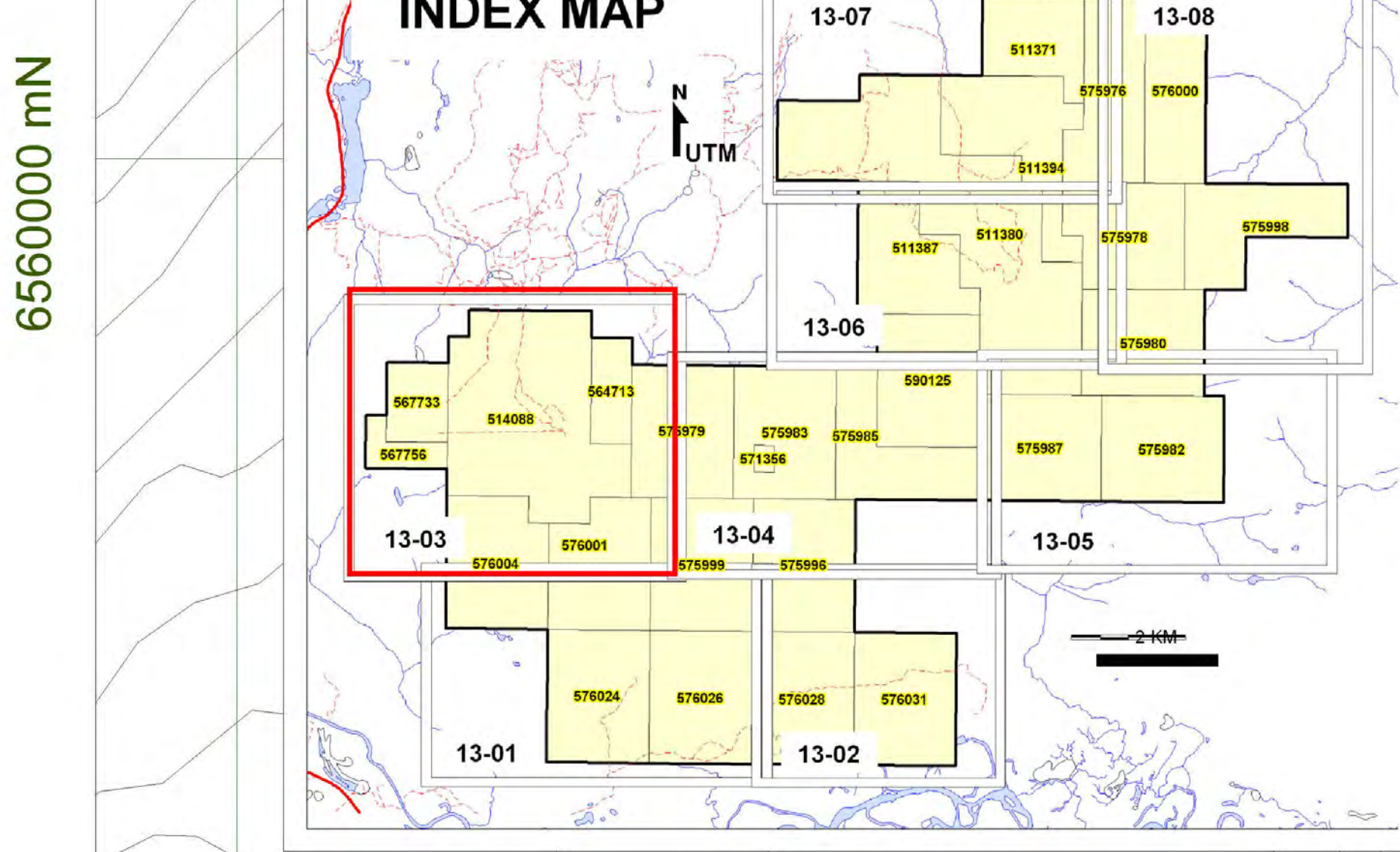
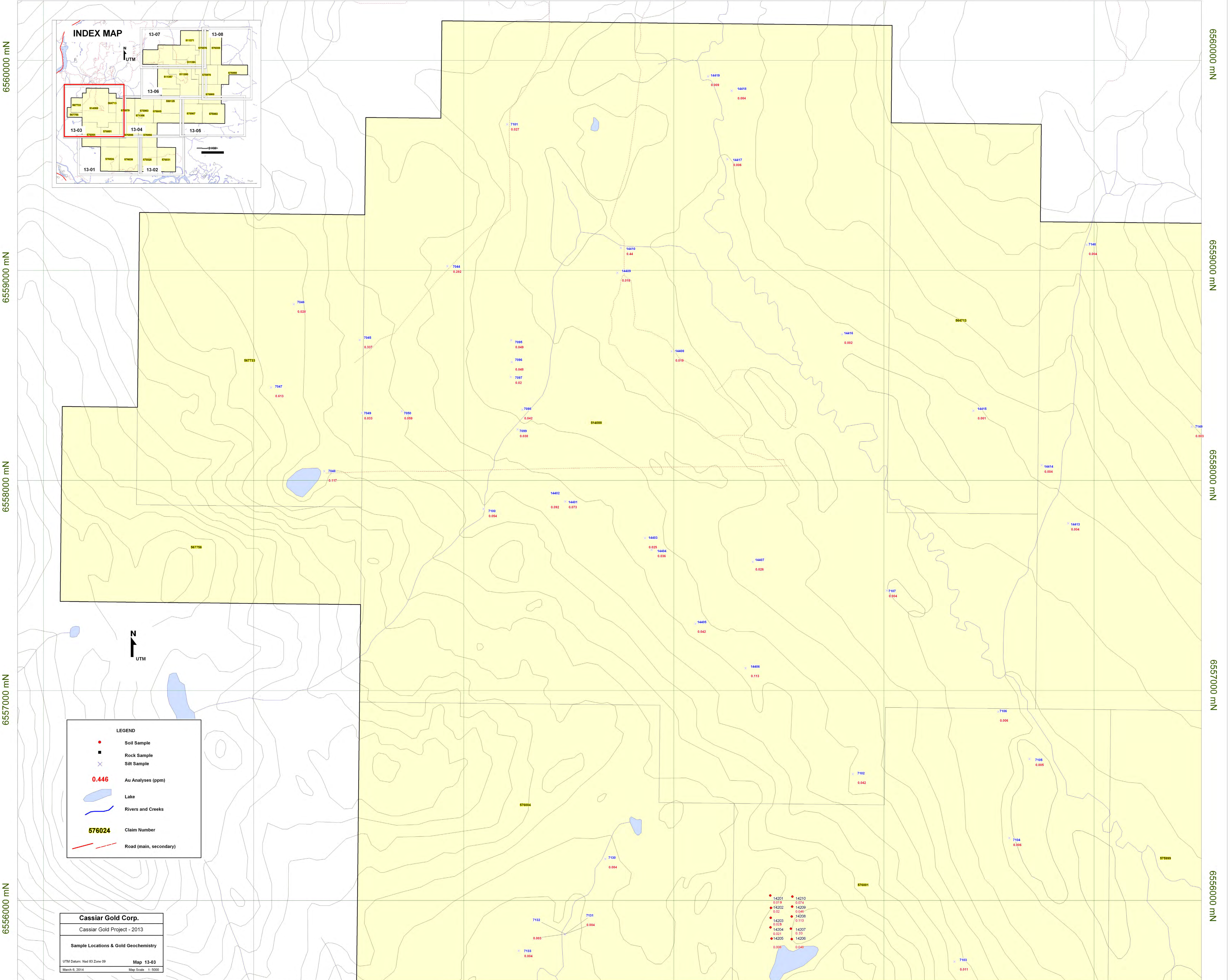
x 14459  
0.007

x 14460  
0.008

576028

576031

458000 mE 459000 mE 460000 mE 461000 mE 462000 mE 463000 mE



N  
UTM

**LEGEND**

- Soil Sample
- Rock Sample
- × Silt Sample
- 0.446 Au Analyses (ppm)
- Lake
- Rivers and Creeks
- 576024 Claim Number
- Road (main, secondary)

**Cassiar Gold Corp.**  
Cassiar Gold Project - 2013

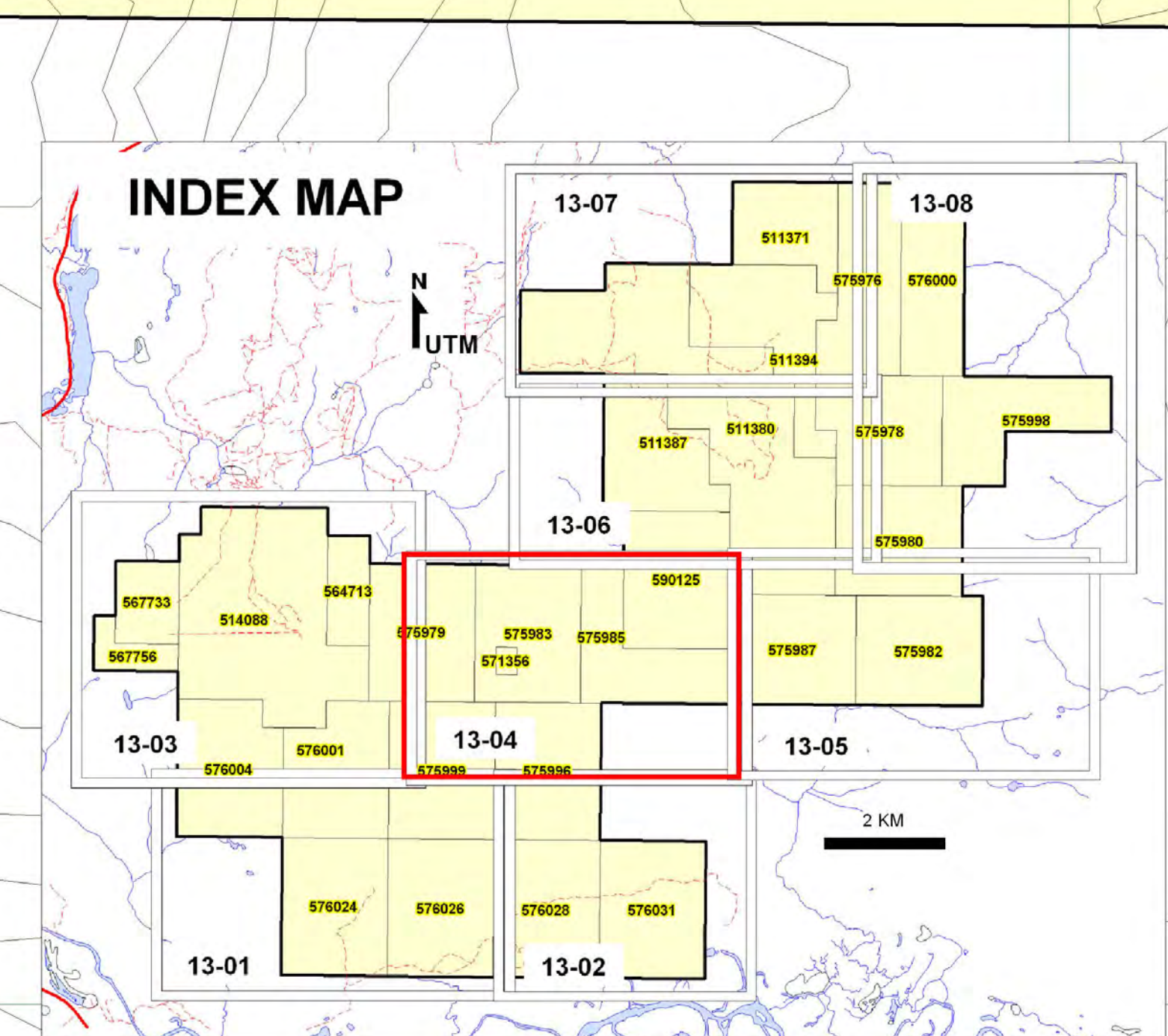
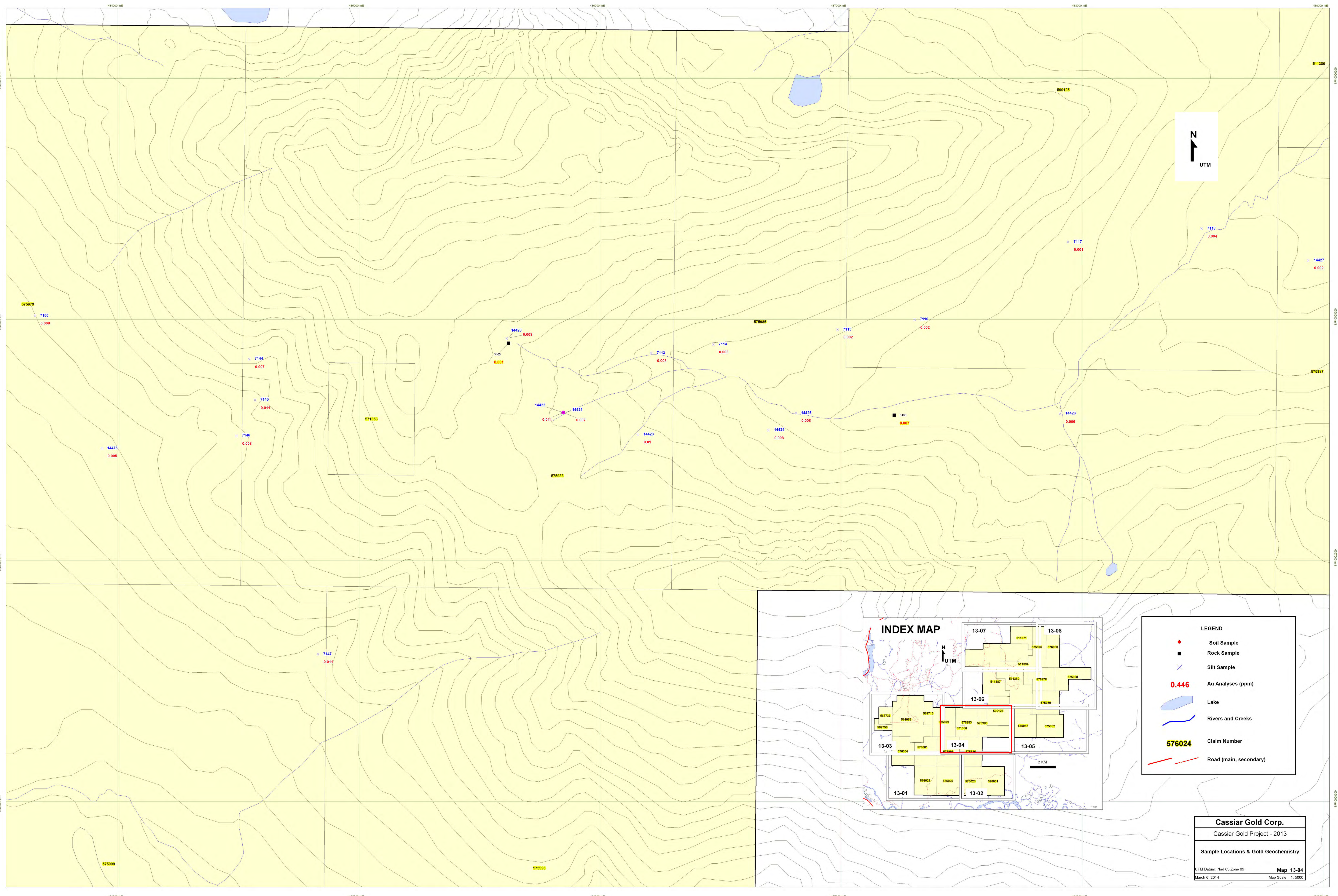
**Sample Locations & Gold Geochemistry**

UTM Datum: Nad 83 Zone 59 Map 13-03  
March 6, 2014 Map Scale: 1:5000

459000 mE 460000 mE 461000 mE 462000 mE 463000 mE

6560000 mN  
6559000 mN  
6558000 mN  
6557000 mN  
6556000 mN

6560000 mN  
6559000 mN  
6558000 mN  
6557000 mN  
6556000 mN



LEGEND	
<span style="color: red;">●</span>	Soil Sample
<span style="color: black;">■</span>	Rock Sample
<span style="color: blue;">×</span>	Silt Sample
<span style="color: red;">0.446</span>	Au Analyses (ppm)
	Lake
	Rivers and Creeks
<span style="color: green;">576024</span>	Claim Number
	Road (main, secondary)

**Cassiar Gold Corp.**  
 Cassiar Gold Project - 2013

**Sample Locations & Gold Geochemistry**

UTM Datum: Nad 83 Zone 09 Map 13-04  
 March 6, 2014 Map Scale: 1:5000

470000 mE

471000 mE

472000 mE

473000 mE

474000 mE

6559000 mN

6558000 mN

6557000 mN

6556000 mN

6559000 mN

6558000 mN

6557000 mN

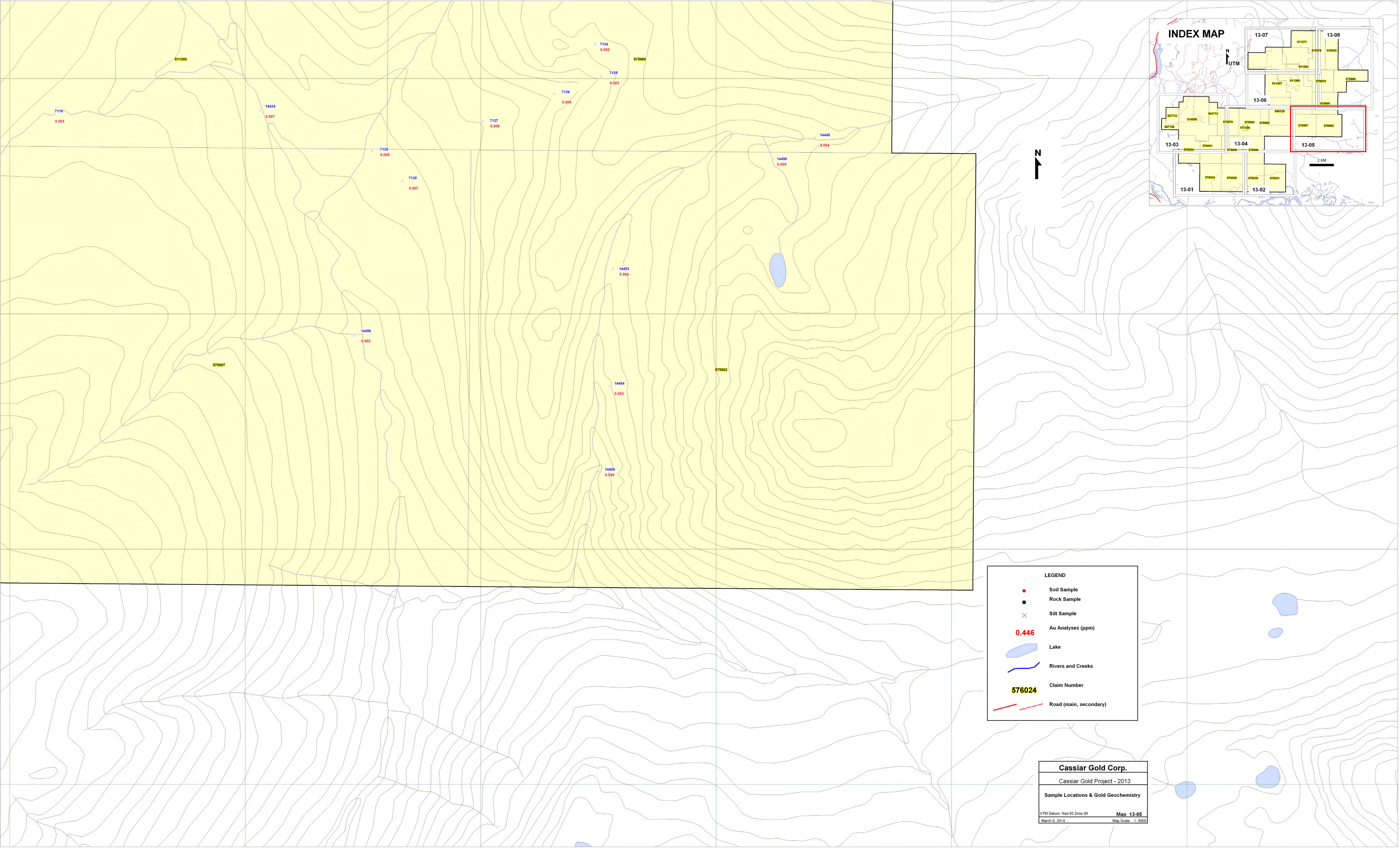
470000 mE

471000 mE

472000 mE

473000 mE

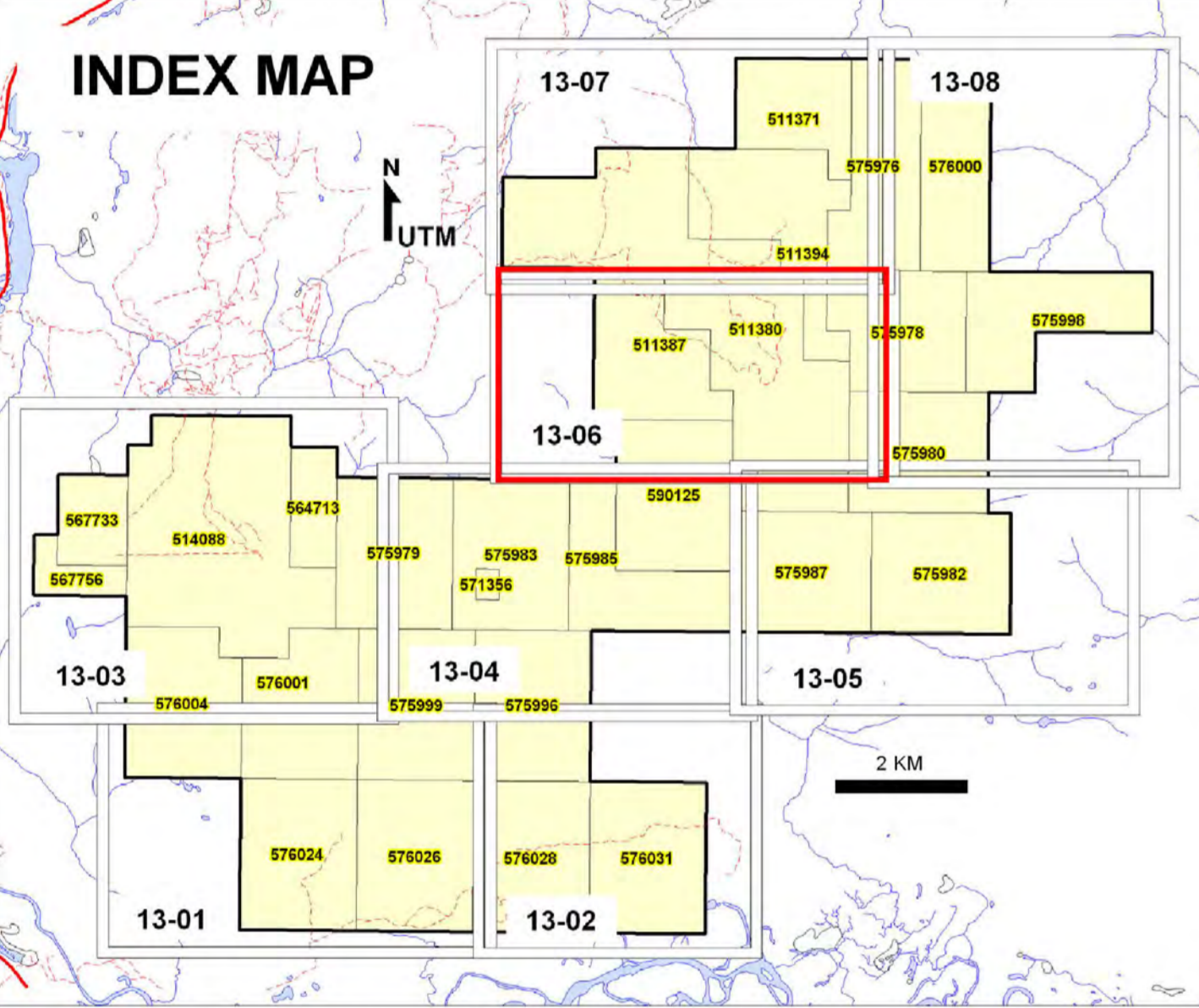
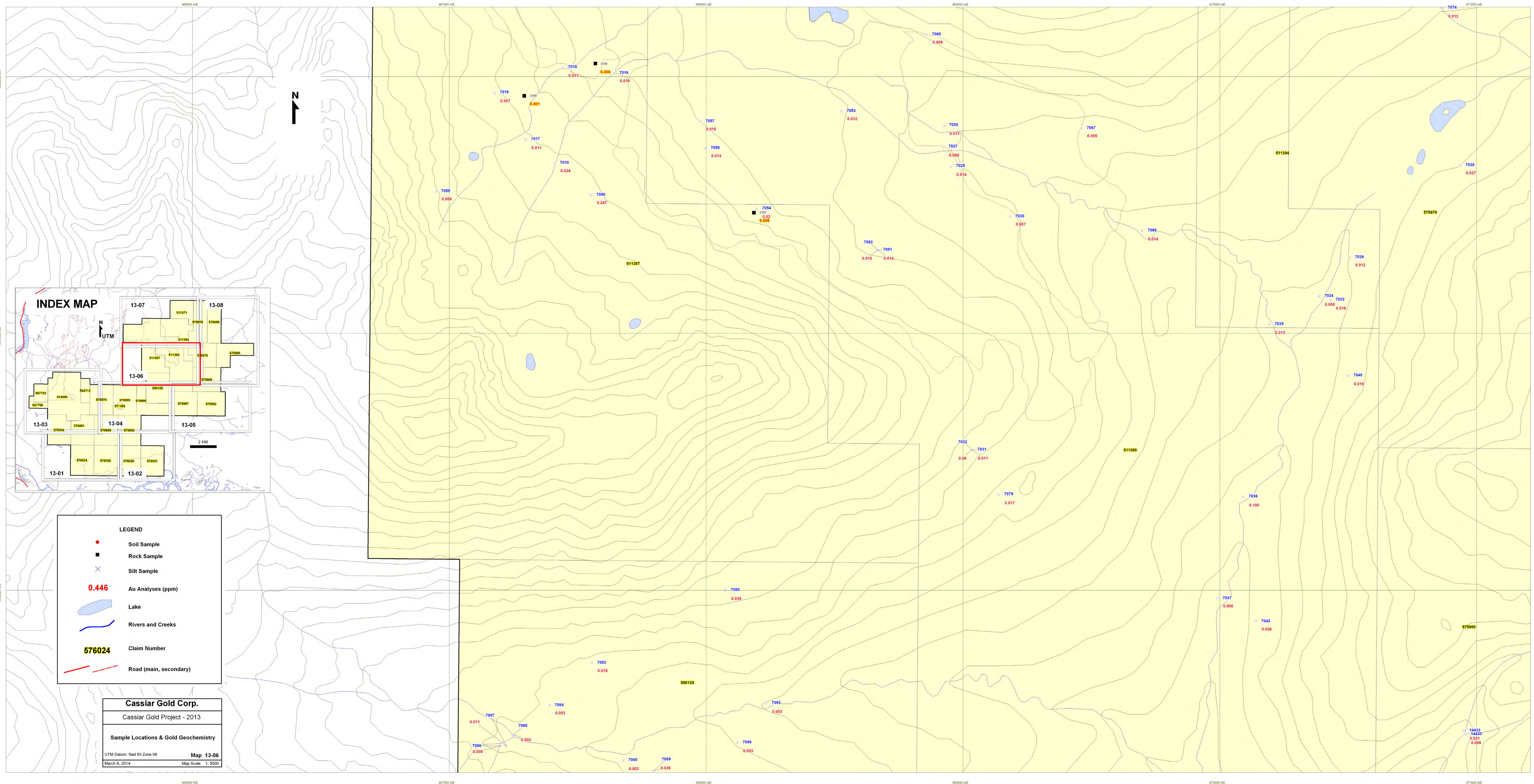
474000 mE



**LEGEND**

- Soil Sample
- Rock Sample
- × Silt Sample
- 0.446 Au Analyses (ppm)
- Lake
- Rivers and Creeks
- 576024 Claim Number
- Road (main, secondary)

**Cassiar Gold Corp.**  
 Cassiar Gold Project - 2013  
 Sample Locations & Gold Geochemistry  
 UTM Datum: Nad 83 Zone 00 Map: 13-05  
 March 6, 2014 Map Scale: 1:5000



**LEGEND**

- Soil Sample
- Rock Sample
- × Silt Sample
- 0.446 Au Analyses (ppm)
- ▭ Lake
- Rivers and Creeks
- 576024 Claim Number
- Road (main, secondary)

**Cassiar Gold Corp.**  
 Cassiar Gold Project - 2013

**Sample Locations & Gold Geochemistry**

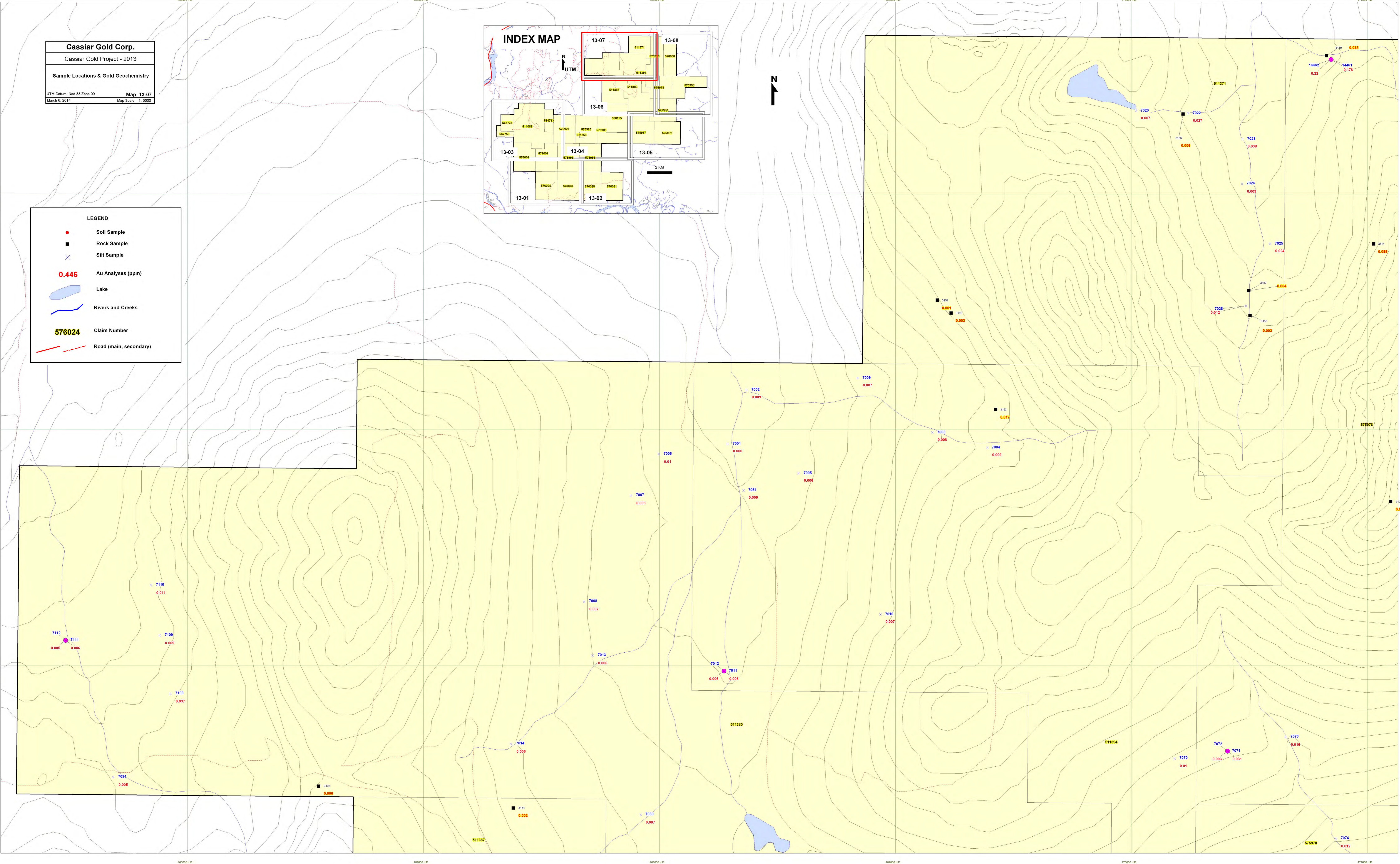
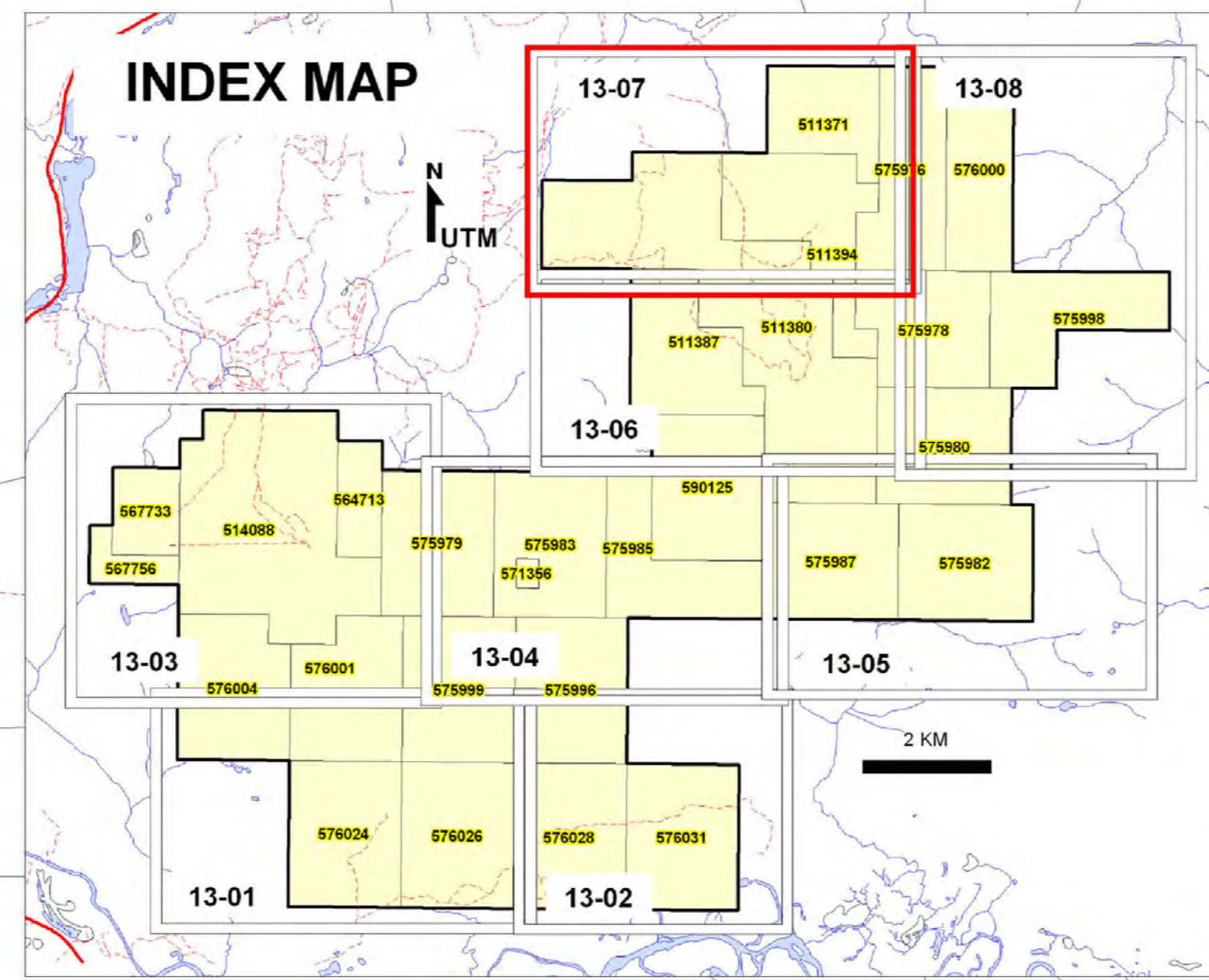
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 March 6, 2014 Map Scale 1: 5000

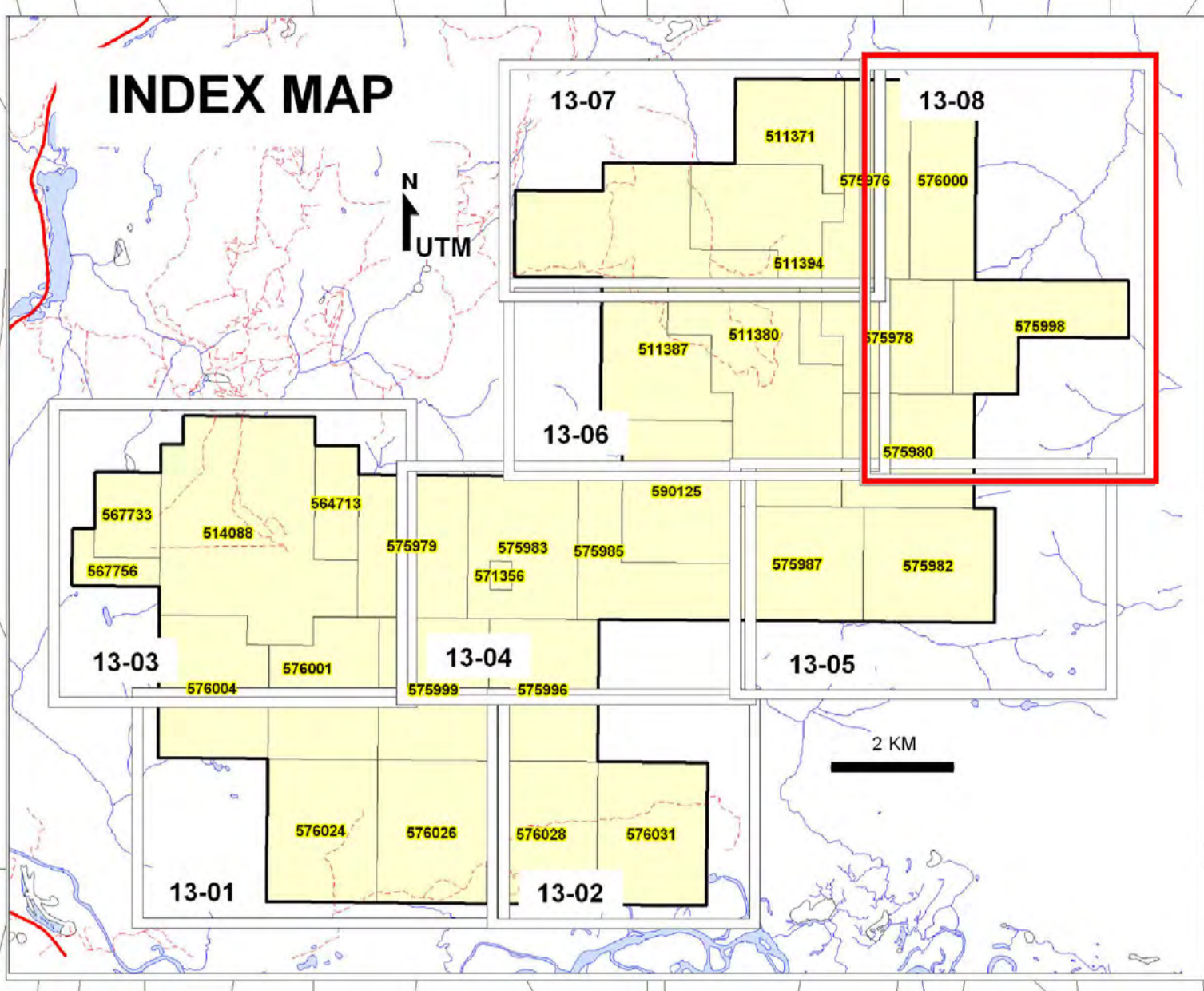
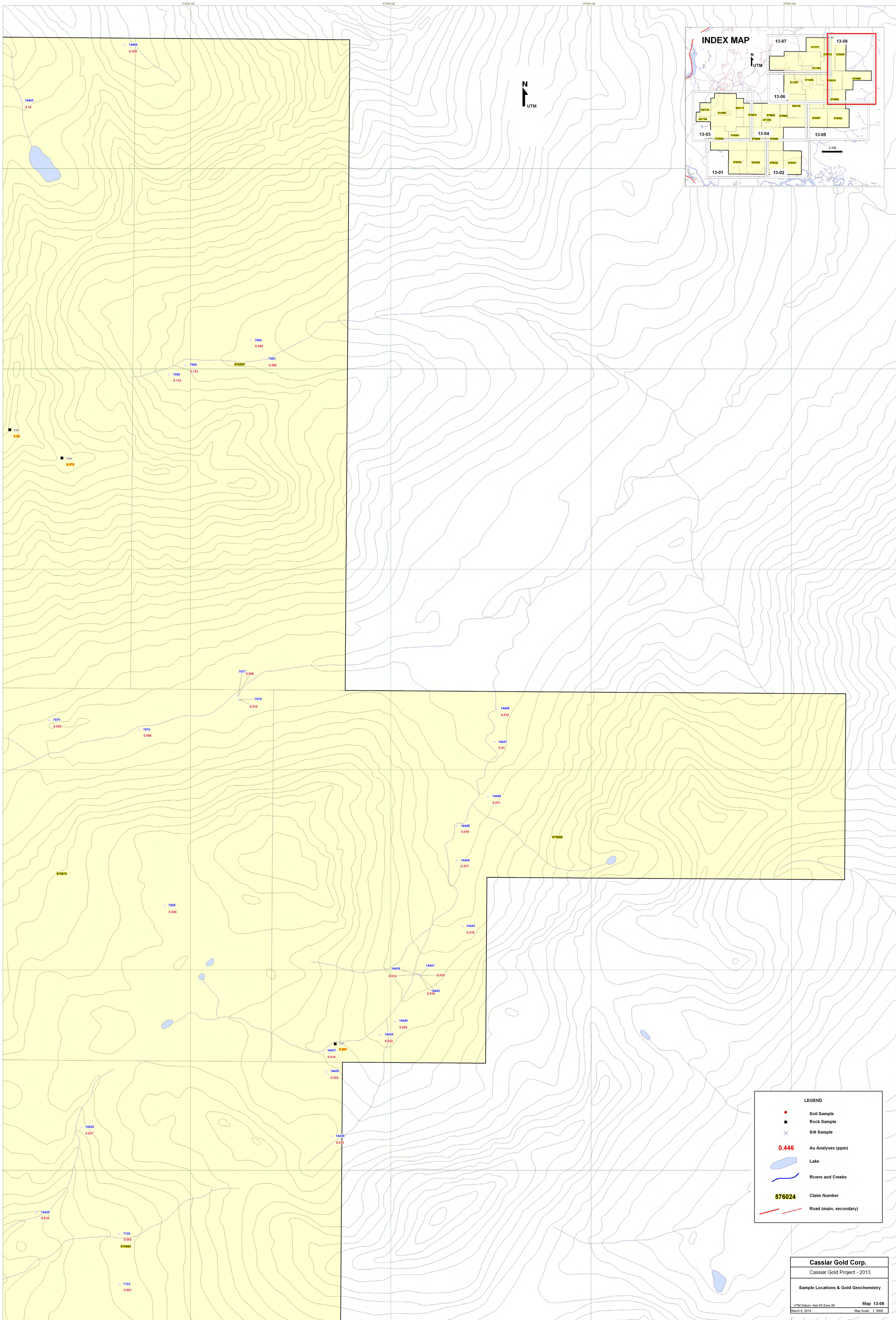


**Cassiar Gold Corp.**  
 Cassiar Gold Project - 2013  
**Sample Locations & Gold Geochemistry**  
 UTM Datum: NAD 83 Zone 09      Map: 13-07  
 March 6, 2014      Map Scale: 1:5000

**LEGEND**

- Soil Sample
- Rock Sample
- × Silt Sample
- 0.446 Au Analyses (ppm)
- ☾ Lake
- Rivers and Creeks
- 576024 Claim Number
- Road (main, secondary)





N  
UTM

LEGEND	
●	Soil Sample
■	Rock Sample
×	Silt Sample
0.446	Au Analyses (ppm)
🟦	Lake
🟦	Rivers and Creeks
576024	Claim Number
— — —	Road (main, secondary)

**Cassiar Gold Corp.**  
 Cassiar Gold Project - 2013  
**Sample Locations & Gold Geochemistry**  
 UTM Datum: NAD 83 Zone 09  
 March 8, 2014  
 Map Scale: 1:5000  
 Map 13-08