

ASSESSMENT REPORT

2012 GEOCHEMICAL PROGRAM

on the

CO Property

Whitehorse Mining District, Yukon Territory

for

Goldspike Exploration Inc.

Claims filed for: 'CO' 1-36 (YD155601 - YD155636)

NTS Mapsheet: 115J12

UTM Coordinates: E570000, N6943000 (NAD83, Zone 7)

Owner: Goldspike Exploration Inc.

Author: D. Ferraro, HBSc.

Date worked performed: June 17th, 2012

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1.0 SUMMARY

A 1 day geochemical sampling program was conducted on the CO Property on June 17th, 2012. The property is owned 100% by Goldspike Exploration Inc. and consists of 36 contiguous quartz claims located in the Whitehorse Mining District.

The CO Property is situated 3 km north of the Donjek River, 18 km east of the confluence with the White River. It is 68km northeast of the community of Beaver Creek, Yukon and approximately 150 km south of Dawson City. The property is not road accessible; however there are bush trails in the area. For the purposes of this program, a helicopter was used based from a field camp.

Geologically, the property is located within Yukon Tanana Terrane, a middle to Upper Paleozoic metamorphosed assemblage which extends from central Alaska through central Yukon to northern British Columbia. It consists of polymetamorphosed and polydeformed metasediments, metavolcanics, and metaplutonic rocks. The property is underlain by Devonian to Cretaceous greenstone. It is just north of a contact to a unit of Devonian to Cretaceous ultramafic rocks (harzburgite, dunite). There is a large mid-Cretaceous unit of felsic intrusives (granite, granodiorite) 1.8 km north of the property. The property covers a 90th percentile anomalous gold sample part of a regional GSC-conducted survey.

A total of 101 soil samples and 13 rock samples were taken over the duration of the program. The highest gold in soil result was 24.5 ppb Au. No other sample returned significantly anomalous results, which may be partially due to poor sampling conditions in the area.

The CO Property is located in a geological setting favourable to gold mineralization. The regional and local geology, geophysical features, and lack of previous exploration are all indicators of potential for gold mineralization. Despite this, the 2012 program showed few favourable results. Due to lack of results, poor sampling conditions, and the expense of accessing the property, it is recommended that no further work be done.

2.0 INTRODUCTION

This assessment report has been prepared at the request of Mr. Bruce Durham, president of Goldspike Exploration Inc. of Toronto, Ontario. The report describes the 2012 geochemical and prospecting program on the CO Property. Field work was performed by Druid Exploration Inc. of Dawson City, Yukon and the author of this report. The report text and maps were produced by D. Ferraro, of Ferraro Consulting Ltd. of Woodstock, ON.

3.0 PROPERTY LOCATION AND ACCESS

The CO Property is situated 3 km north of the Donjek River, 18 km east of the confluence with the White River. It is 68km northeast of the community of Beaver Creek, Yukon and approximately 150 km south of Dawson City (Figure 1). The property is not road accessible; however there are bush trails in the area. For the purposes of this program, a helicopter was used based from a field camp.

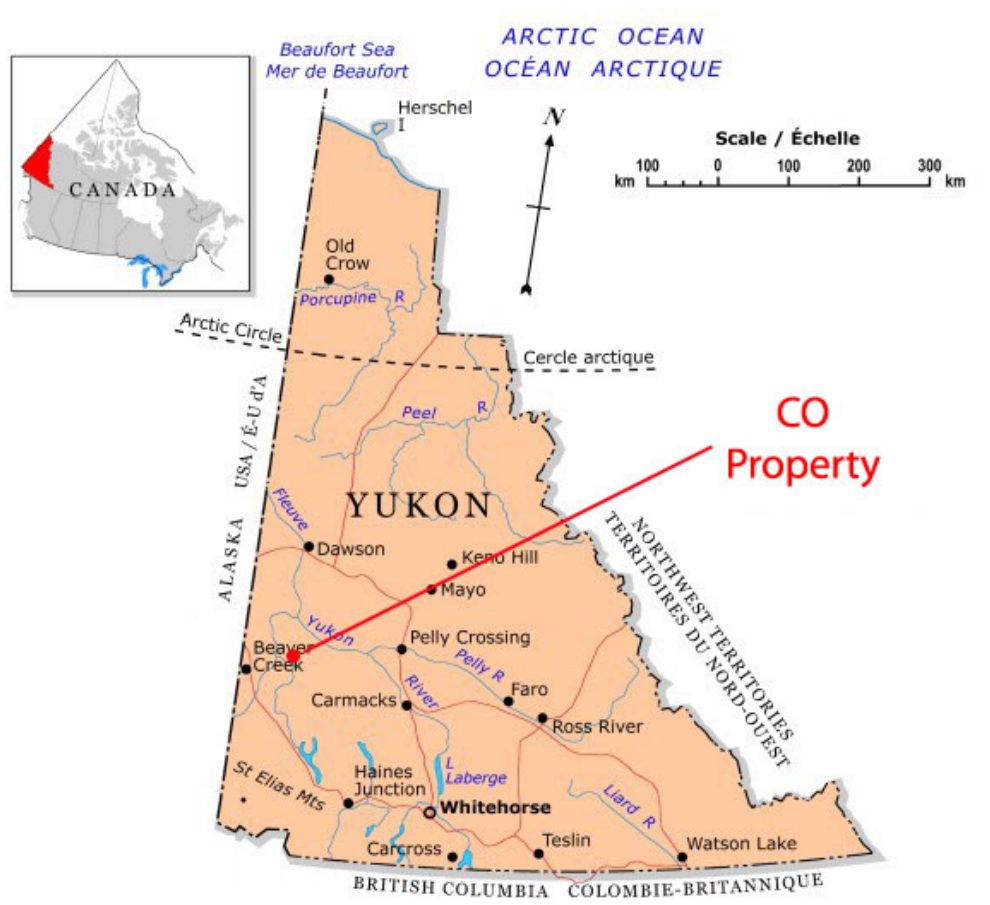


Figure 1: General location of the CO Property (modified from NRCAN, 2006).

4.0 TOPOGRAPHY, VEGETATION, AND CLIMATE

The CO Property is situated in the Dawson Range, a northwest-trending mountain range in western Yukon stretching over 100 km. Peaks just west of the property reach elevations of 4100 ft. Numerous tributaries drain these areas and meet at an elevation of 2000 ft.

Vegetation consists of black spruce and other evergreen trees on the slopes and thinner evergreen and buckbrush at the higher elevations. Bedrock exposure is limited to ridges and spurs.

The Yukon has a subarctic continental climate with a mean summer temperature of 10 degrees celcius and a mean winter temperature of -23 degrees celcius. Temperature extremes of 35 degrees and -55 degrees celcius are common in the summer and winter, respectively.



Photo 1: Physiography of the area.

5.0 PROPERTY DESCRIPTION

The CO Property consists of 36 contiguous quartz claims in the Whitehorse Mining District. The 36 'CO' claims can be found on NTS mapsheet 115J12 (see Figure 2). The claims are owned 100% by Goldspike Exploration Inc. of Toronto, Ontario. A complete list of the mining claims that make up the CO Property is as follows:

Table 1: Claims comprising the CO Property.

Claim Name	Claim Number	Grant Number	Claim Owner (100%)	Status	NTS Map Number	Claim Expiry Date
CO	1	YD155601	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	2	YD155602	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	3	YD155603	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	4	YD155604	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	5	YD155605	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	6	YD155606	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	7	YD155607	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	8	YD155608	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	9	YD155609	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	10	YD155610	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	11	YD155611	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	12	YD155612	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	13	YD155613	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	14	YD155614	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	15	YD155615	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	16	YD155616	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	17	YD155617	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	18	YD155618	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	19	YD155619	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	20	YD155620	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	21	YD155621	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	22	YD155622	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	23	YD155623	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	24	YD155624	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	25	YD155625	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	26	YD155626	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	27	YD155627	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	28	YD155628	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	29	YD155629	Goldspike Exploration Inc.	Active	115J12	20/06/2015

CO	30	YD155630	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	31	YD155631	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	32	YD155632	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	33	YD155633	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	34	YD155634	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	35	YD155635	Goldspike Exploration Inc.	Active	115J12	20/06/2015
CO	36	YD155636	Goldspike Exploration Inc.	Active	115J12	20/06/2015

CO Property

Fig. 2: Claim Location Map

Goldspike Exploration Inc.

Donjek River area,
Whitehorse Mining District

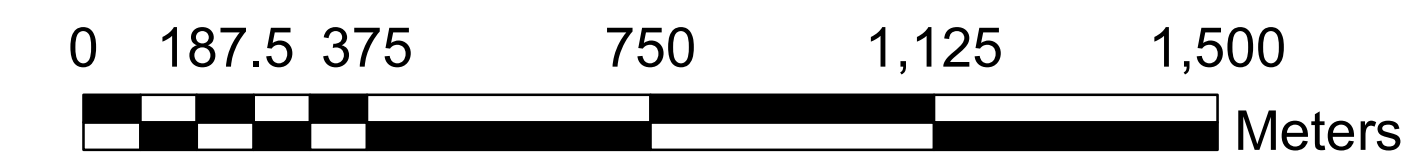
Legend

 CO Property

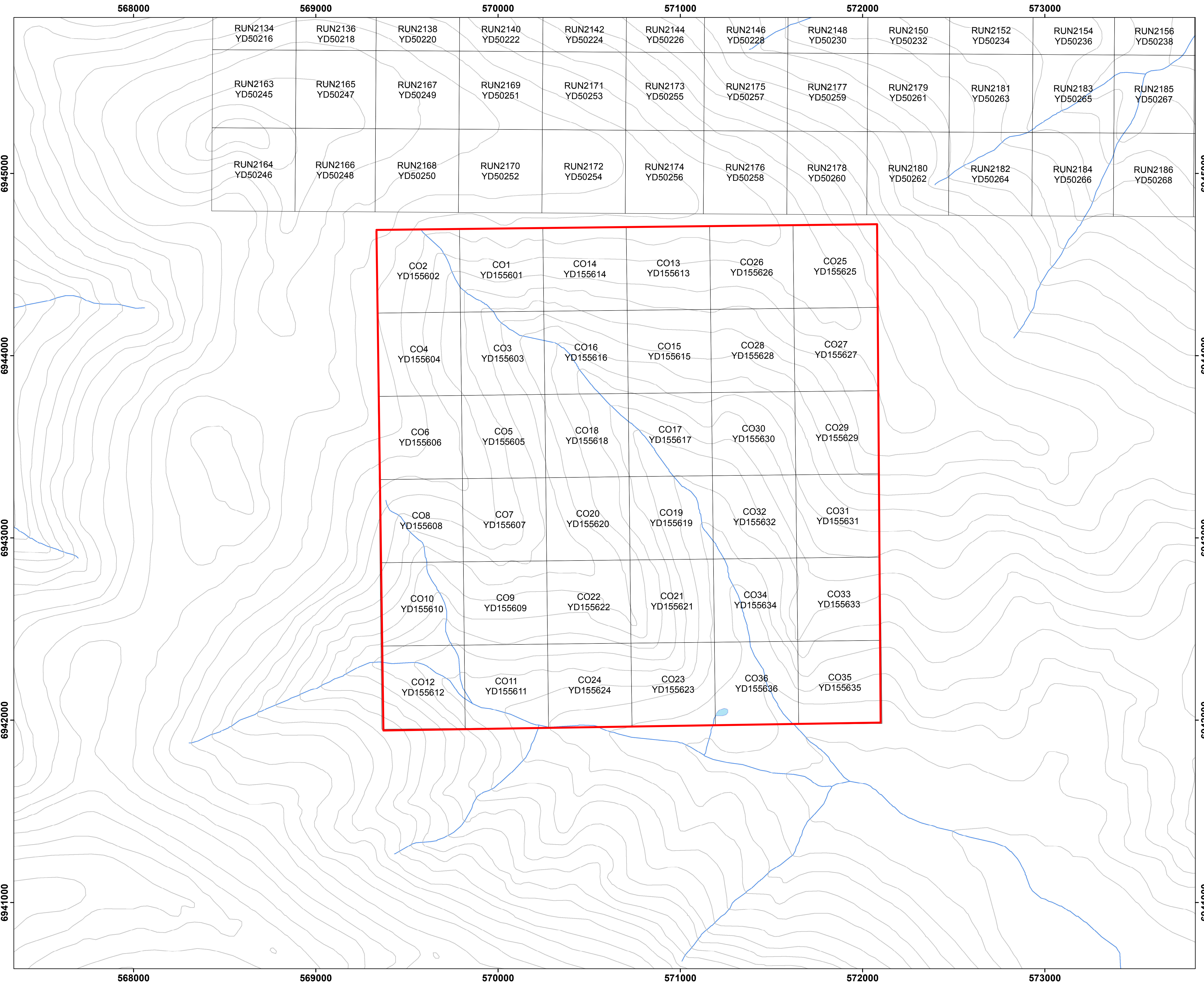
 Yukon quartz claims



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Date: June, 2012
NTS Mapsheet: 115J12
Datum: UTM NAD83 Zone 7



6.0 PROPERTY HISTORY

The area has seen very little exploration since the late 1960s, when the discovery of the giant Casino copper-gold porphyry triggered a large staking rush. In 1969, the RUN claims were staked six kilometers east-southeast of the current property. They cover the contact between Paleozoic metamorphic rocks and Klotassin granodiorite. A small geochemical survey was conducted, but no results noted (Minfile 115J042).

Fifteen kilometers north-northwest of the property is the BID occurrence: a number of small veins within the granodiorite hosting pyrite-chalcopyrite-molybdenite mineralization. This was staked in 1969 as a joint venture between Atlas Exploration and Dynasty Exploration (Minfile 115J044).

Currently the property is contiguous with Kaminak Gold Corp.'s RUN claims to the north. These 292 claims were staked in 2010. No results are available.

7.0 GEOLOGY

7.1 Regional Geology

The CO Property is located in the Yukon-Tanana Terrane, an accreted pericratonic rock sequence that covers a large portion of the Omineca Belt, and extends into Alaska and British Columbia. It is the largest of the Yukon's terranes and hosts gold deposits related to Mesozoic intrusions, including the Sonora Gulch gold deposit and the Casino copper gold and molybdenum porphyry (Chartier, 2012). The Yukon-Tanana Terrane consists of several assemblages of schists and gneisses that were deformed and metamorphosed in the late Paleozoic era. These were intruded by a number of suites of Mesozoic intrusions, including the Dawson Suite intrusions. The Paleozoic rocks are pervasively foliated and contain at least two overprinting rock fabrics. During the Early Jurassic period, the rocks were tectonically stacked along foliation-parallel thrust faults (Hart, 2011). The terrane is cut by the Tintina Fault, a right-lateral strike-slip fault which occurs along the suture zone between the Yukon Tanana Terrane to the southwest and ancestral North America to the northeast.

7.2 Property Geology

The CO Property is underlain by primarily by Devonian to Cretaceous greenstone/basalt (Figure 4). The property is just north of a contact to a unit of Devonian to Cretaceous ultramafic rocks (harzburgite, dunite). There is a large mid-Cretaceous unit of felsic intrusives (granite, granodiorite) 1.8 km north of the property (Tempelman-Kluit, 1974). Mid-Cretaceous intrusions are the most commonly documented source of gold in the Tintina Gold Belt, including the Fort Knox and Pogo deposits (Alaska), and the Casino, Nucleus and Mt. Nansen deposits (Yukon).

Like the Klondike and the rest of the White Gold district, the CO Property is in a part of the Yukon that was not glaciated during the last ice age. For this reason, soil and silt geochemistry is very effective in locating gold deposits. There is one GSC-collected regional silt sample in the southeast corner of the property. It is anomalous, in the 90th percentile at 11 ppb Au.

Bremner (2010) interpreted the geophysics of the area in a summary of the CO Property:

'A detailed magnetic derivative map from the Stevenson Ridge Survey flown by the Yukon Government and the GSC in 2009 shows that three magnetic lineaments trending east-west, northwest-southeast, and north-south intersect in a magnetic low at the head of the anomalous creek (Figure 3).

These lineaments are important because structure is the dominant feature in the recent major gold discoveries in Yukon's White Gold district, where gold occurs in quartz veins, hydrothermal breccias, and broad shear zones with multiple parallel faults and shears that show up as linear magnetic lows on geophysical maps.'

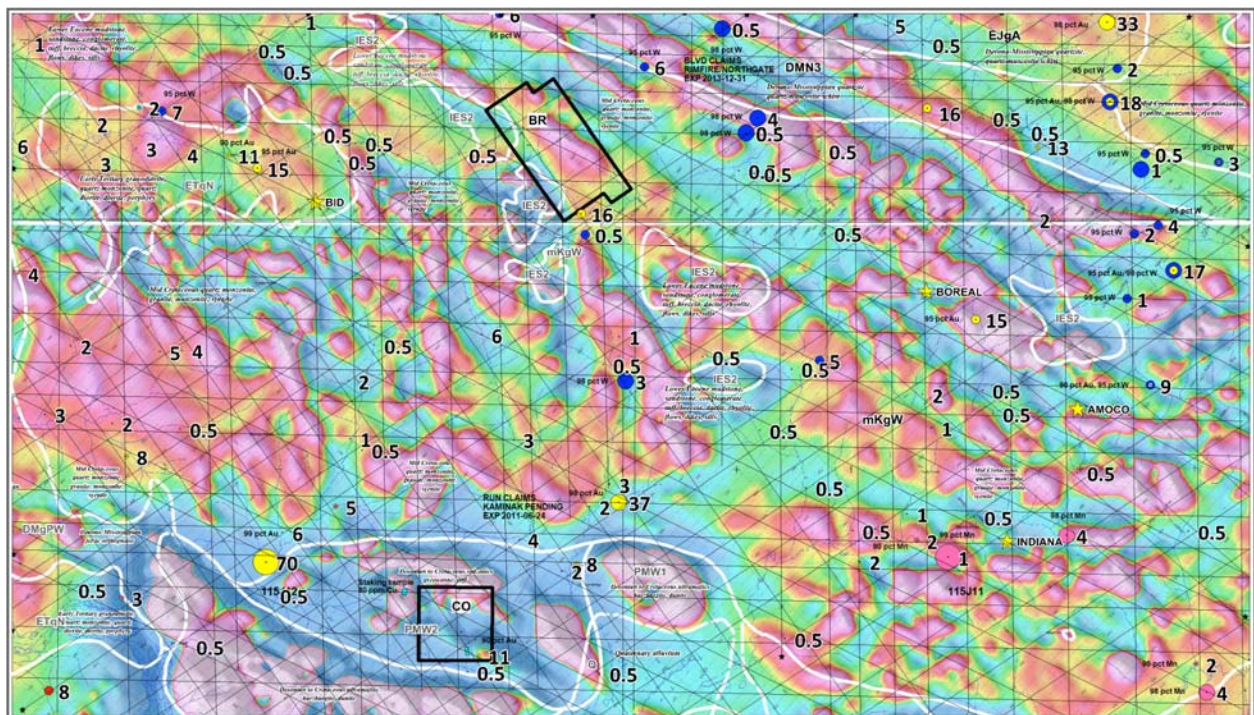
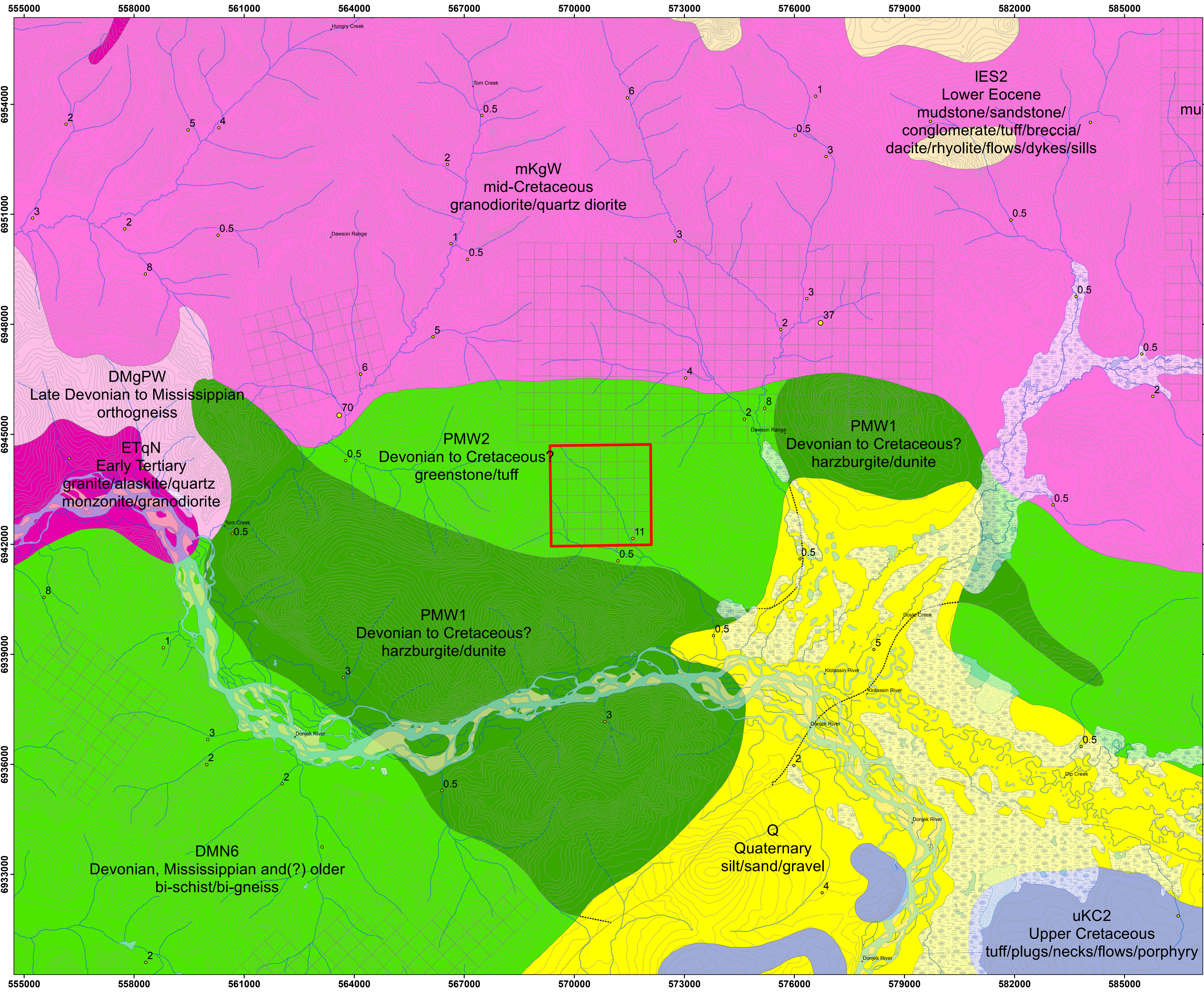


Figure 3: 1VD magnetic interpretation of the CO Property area. (Bremner, 2010).



CO Property

Fig. 4: Bedrock Geology Map

Goldspike Exploration Inc.

Donjek River area,
Whitehorse Mining District

Legend

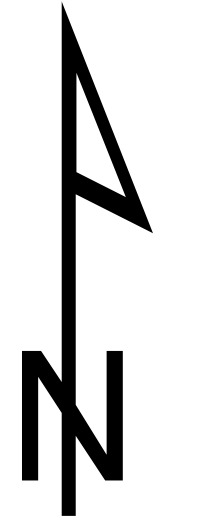
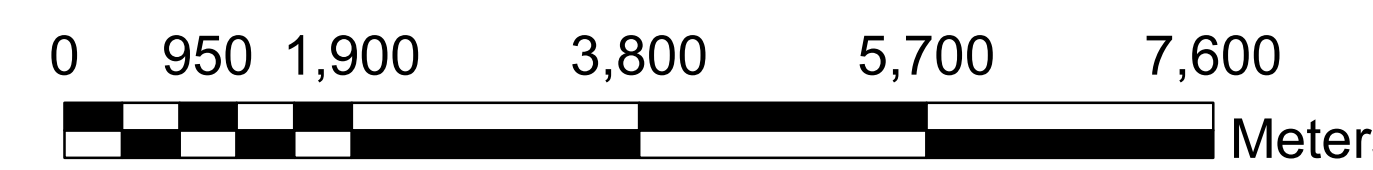
- CO Property
- Yukon quartz claims
- Bedrock Geology**
- Lithology**
- silt/sand/gravel
- mudstone/sandstone/conglom./felsic volcanic
- granite/alaskite/granodiorite
- orthogneiss
- tuff/plugs/necks/flows/porphyry
- granodiorite/quartz diorite
- greenstone/tuff
- harzburgite/dunite
- Fault lines

Regional stream geochemistry

Au (ppb)

- 0.0 - 15.0
- 15.1 - 74.0
- 74.1 - 215.0
- 215.1 - 482.0
- 482.1 - 1170.0

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Date: June, 2012
 NTS Mapsheet: 115J12
 Datum: UTM NAD83 Zone 7

8.0 2011 WORK PROGRAM

8.1 Sampling Method and Approach

A 1 day geochemical sampling program was conducted on the CO Property on June 17th, 2012. Flying out of a field camp, a crew of 2 soil samplers and one geologist collected 101 soil samples and 13 rock samples (see Figure 5 for sample locations). A Hughs 500D helicopter was used for the duration of the program.

A ridge and spur soil sampling program was planned before field work was conducted. Using ArcGIS, soil sample traverses were plotted at 50m spacings and downloaded onto samplers' GPS units. Once in the field, samplers used Dutch augurs to collect an adequate soil sample, preferably from the 'C' horizon, placing it in a Kraft paper bag, marking the location with GPS, and marking the location with flagging tape labeled with the sample number. Sample conditions, environment and attributes were recorded in a field notebook. The GPS units were downloaded daily for plotting in ArcGIS. Soil samples were hung up to dry, then packed and shipped to the lab. Soil sample descriptions can be found in Appendix I.

Rock samples were taken based on mineralogy, structure and lithology. Samples were placed inside labeled plastic poly bags with the corresponding sample tag. Sample descriptions were recorded in a field notebook and the location recorded by GPS unit. Sample locations were marked with flagging tape labeled with the sample number. Rock sample descriptions can be found in Appendix I.

8.2 Sample Preparation, Analysis, and QA/QC

The soil and silt samples were dried at 60° C and sieved to -80 mesh (<177 microns). A 15.0 gram sub-sample was digested in hot (95° C) aqua regia (HCl-HNO₃-H₂O); following this, the samples were analysed by inductively-coupled plasma mass spectrometry (ICP-MS) techniques (Acme's Group 1DX2). Multi-elemental analysis of 36 elements was made.

The rock samples were crushed, split to 250 g, pulverized, and a split was sieved to -200 mesh. The same analytical procedure (Acme's Group 1DX2) was used.

Quality control samples from the lab include control blanks, duplicates and standards. Sample blanks (BLK), pulp duplicates and standards (STD DS8) were run with the batch analysis; no problems were noted with analytical accuracy or precision.

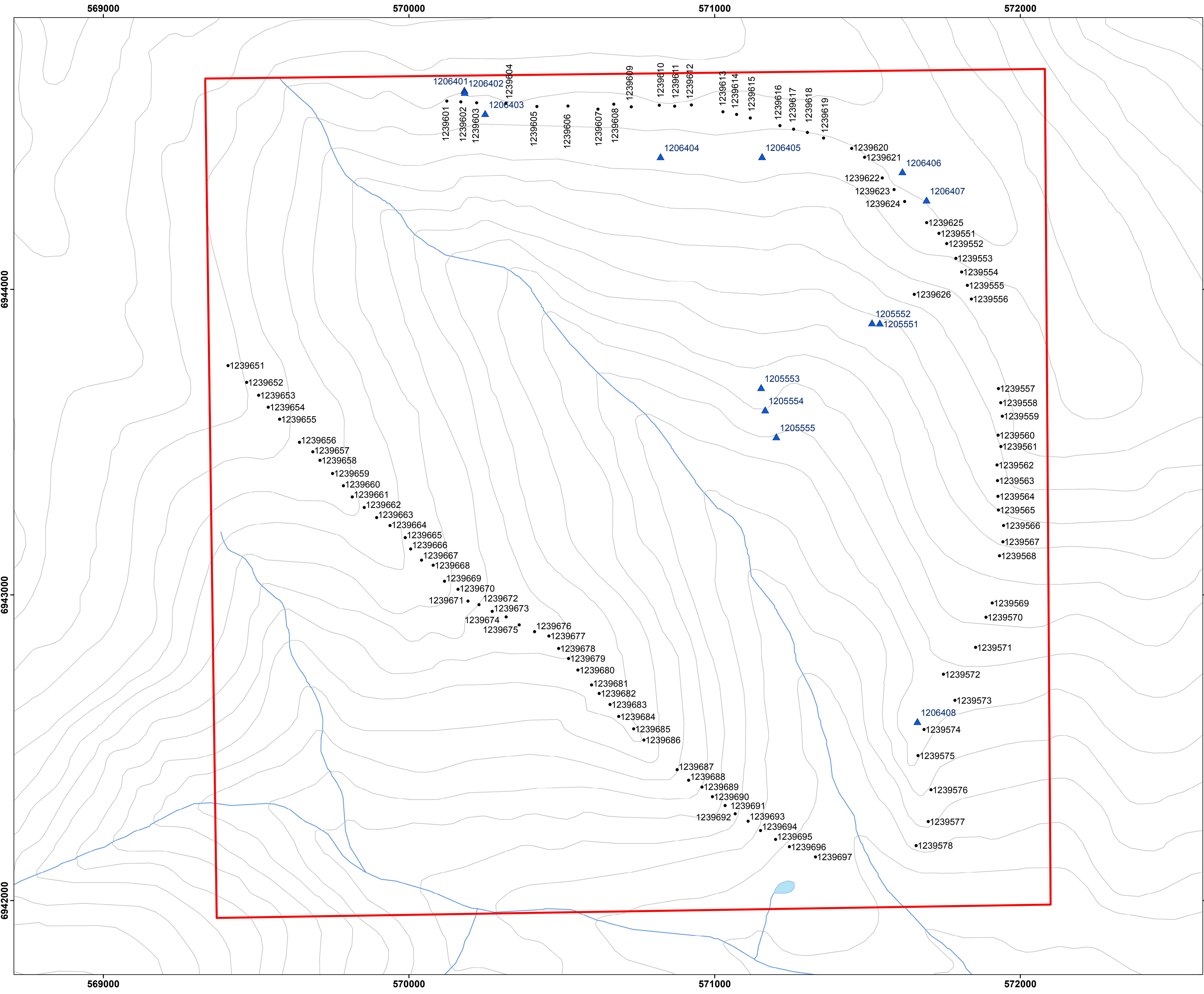
8.3 Results

One hundred one soil samples were recovered from the property. The highest gold result returned from assays was 24.5 ppb Au (see Figure 6). No other elements showed anomalous values. Sampling conditions were not ideal due to frozen ground and permafrost. See Appendix II for soil sample results.

Thirteen rock samples were recovered from the property. No mineralization was observed in the greenstone bedrock or in the float. Bedrock sample 1205553 showed elevated nickel at 136.2 ppm Ni (Photo 2). The sample set showed high aluminum percentages, with sample 1206404 assaying >10% Al. A few samples also showed slightly anomalous copper values, the highest being sample 1205555 at 148.7 ppm Cu. See Appendix III for results.



Photo 2: Sample 1205553: oxidized basalt with quartz and calcite.



CO Property

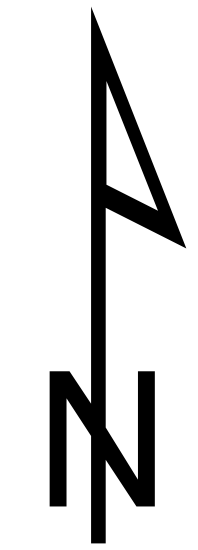
Fig. 5: Sample Locations

Goldspike Exploration Inc.

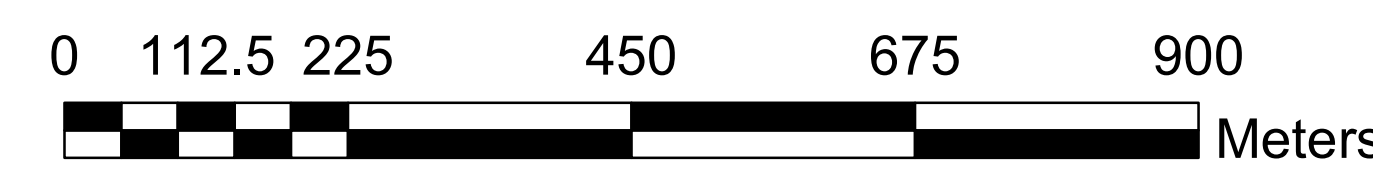
Donjek River area,
Whitehorse Mining District

Legend

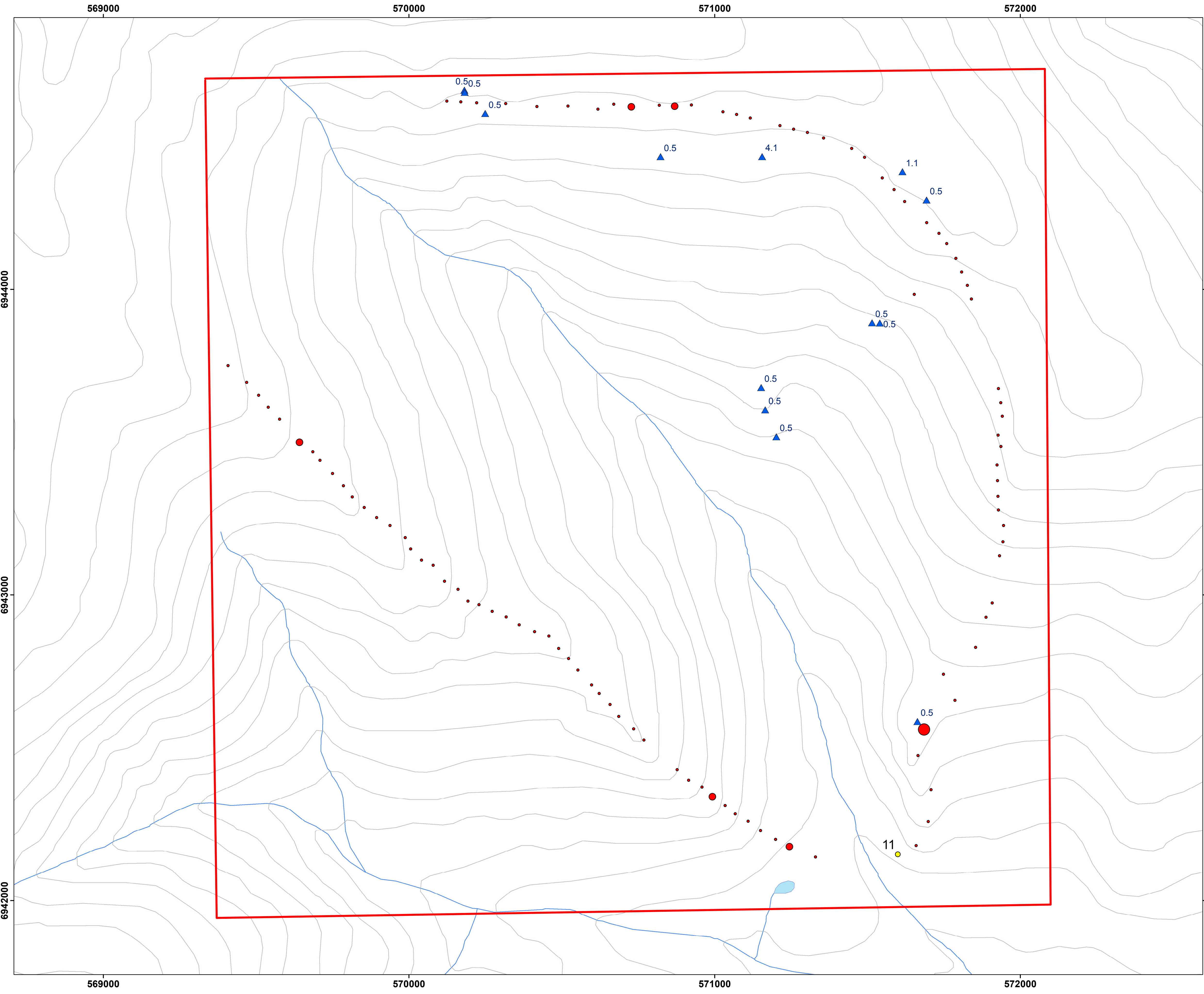
- ▲ Rock samples
- Soil samples
- CO Property



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Date: June, 2012
 NTS Mapsheet: 115J12
 Datum: UTM NAD83 Zone 7



CO Property

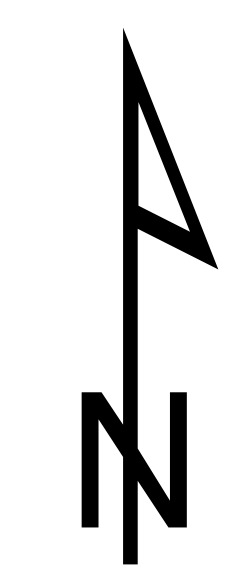
Fig. 6: Sample Geochemistry
- Gold

Goldspike Exploration Inc.

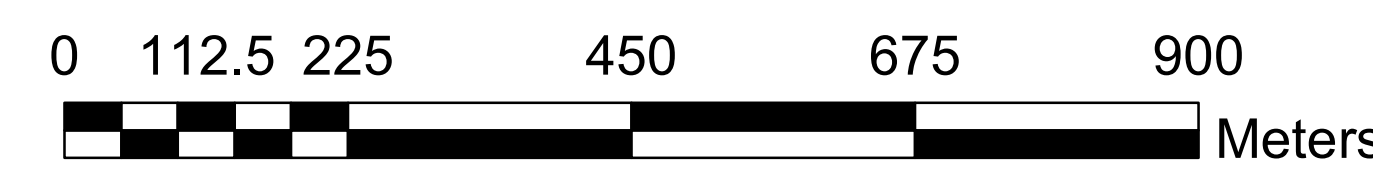
Donjek River area,
Whitehorse Mining District

Legend

- ▲ Rock samples (ppb Au)
- Soil samples**
- Au (ppb)**
- 0.5 - 10.0
- 10.1 - 20.0
- 20.1 - 24.5
- CO Property
- Regional stream geochem (ppb Au)



1:6,000



Date: June, 2012
NTS Mapsheet: 115J12
Datum: UTM NAD83 Zone 7

9.0 CONCLUSIONS AND RECOMMENDATIONS

The CO Property is located in a geological setting favourable to gold mineralization. The local and regional geology and geophysical features are indicators of potential for gold mineralization. Furthermore, previous hard rock exploration in the area is very limited.

The 2012 program did not yield favourable gold in soil results. The highest sample returned was fairly low at 24.5 ppb Au. However, sampling conditions were less than ideal. Much of the ground was frozen, and samplers frequently ran into permafrost.

In addition to the geological setting, the CO Property was staked to cover the 90th percentile GSC-collected silt anomaly. The area around this tributary was adequately sampled. Due to the lack of results, inadequate sampling conditions, and the expense required to access the claims, it is recommended that no further work be done.

REFERENCES

Bremner, T. (2010): CO Prospect, Donjek River area, Summary for YC Syndicate, Goldspike Exploration Inc.

Chartier, D. (2012): Independent Technical Report for the Coffee Gold Project, Yukon, Canada, for Kaminak Gold Corp., Vancouver, BC.

Hart, C. (2011): The Geological Framework of the Yukon Territory, Yukon Geological Survey.

Natural Resources Canada, Atlas, (12/05/2006):
http://atlas.nrcan.gc.ca/auth/english/maps/reference/provincesterritories/yukon_territory/referencemap_image_view (visited 01/02/2012)

Tempelman-Kluit, D.J. (1974): Reconnaissance geology of Aishihik Lake, Snag and part of Stewart River map areas, west-central Yukon (115A, 115F, 115G and 115K). Geological Survey of Canada, Paper 73-41, 97 p.

Yukon Minfile 115J042 (1995): RUN, Yukon Geological Survey.

Yukon Minfile 115J044 (1995): BID, Yukon Geological Survey.

STATEMENT OF EXPENDITURES

Costs associated with the CO Property Worked June 17th, 2012

UNIT	UNIT PRICE	TOTAL
two samplers	300/day	\$600.00
one geologist	400/day	\$400.00
cook	300/day	\$300.00
food	30/man	\$90.00
helicopter	975/hr	\$3,412.50
helicopter fuel	200/hr	\$700.00
helicopter ferry	4.8*975 / 17	\$275.00
ferry fuel	4.8*200 / 17	\$56.00
soil sample assay	\$18x101samples	\$1,818.00
rock sample assay	\$24x13 samples	\$312.00
assessment report		\$1,500.00
truck rental	150/day	\$150.00
truck fuel	50/day	\$50.00
consumables		\$200.00
camp rental		\$1,000.00
TOTAL		\$10,863.50

CERTIFICATE OF QUALIFICATIONS

I, Daniel Ferraro, of 835 Berkshire Dr., Woodstock, Ontario, Canada, certify that:

1. I am a graduate of Lakehead University, 2008, and hold an H. B.Sc. Geology degree.
2. I am an independent geological consultant.
3. I am a member of the Ontario Prospectors Association (2010).
4. I have been employed as a geological assistant for the Ontario Geological Survey and the Geological Survey of Canada during the summers of, respectively, 2006 and 2007.
5. I have been working in the mineral exploration industry since 2008 for Pacific North West Capital Corporation, East West Resources Corporation, Rainy Mountain Royalty Corporation, Black Panther Mining Corporation, White Tiger Mining Corporation, Trillium North Minerals Ltd., Nebu Resources Inc., and Goldspike Exploration Inc.
6. This report was prepared by myself.
7. I have no personal knowledge from the date of this certificate of any material fact or change not reflected in this report.



Daniel Ferraro, H.B.Sc.

Date: Nov. 1, 2012.

Appendix I: Sample Descriptions

CO Property Sample Descriptions

UTM NAD 83 Zone 7

SOIL SAMPLES

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Sample Depth (cm)	Horizon	Colour	Composition					Parent Material	Moisture Content	Vegetation Cover	Topo Position	
									Org-anics	Ang. Rock	Gravel	Sand	Silt					Clay
1239651	569408	6943750	1072	17-Jun-12	CO	20-30	b	dk grey	40					60	loess	frozen	buck brush	mid slope
1239652	569469	6943695	1049	17-Jun-12	CO	20-30	c	dk grey	20					80	loess	partially frozen	buck brush	mid slope
1239653	569508	6943653	1052	17-Jun-12	CO	20-30	b	dk grey	50					50	loess	partially frozen	buck brush	mid slope
1239654	569540	6943614	1046	17-Jun-12	CO	30-40	c	dk grey	20					80	loess	partially frozen	buck brush	mid slope
1239655	569577	6943574	1039	17-Jun-12	CO	30-40	c	dk brown	30					70	talus	moist	buck brush	mid slope
1239656	569642	6943499	1031	17-Jun-12	CO	20-30	b	dk brown	30					70	loess	partially frozen	buck brush	mid slope
1239657	569686	6943468	1022	17-Jun-12	CO	30-40	b	dk brown	60					40	loess	partially frozen	buck brush	mid slope
1239658	569709	6943440	1019	17-Jun-12	CO	30-40	c	lt brown	5					95	weathered bedrock	moist	buck brush	mid slope
1239659	569750	6943397	1014	17-Jun-12	CO	30-40	c	dk brown	10	10				80	loess	frozen	buck brush	mid slope
1239660	569786	6943357	1008	17-Jun-12	CO	20-30	c	lt brown	10	10				80	weathered bedrock	moist	buck brush	mid slope
1239661	569815	6943320	1000	17-Jun-12	CO	20-30	c	lt brown	20					80	talus	moist	evergreen forest	mid slope
1239662	569854	6943286	993	17-Jun-12	CO	20-30	c	lt brown	20					80	weathered bedrock	moist	evergreen forest	mid slope
1239663	569894	6943253	983	17-Jun-12	CO	30-40	b	dk brown	60					40	loess	frozen	evergreen forest	mid slope
1239664	569938	6943227	976	17-Jun-12	CO	30-40	c	lt brown	5	10				85	weathered bedrock	moist	evergreen forest	mid slope
1239665	569988	6943187	965	17-Jun-12	CO	20-30	c	dk brown	10	20				70	weathered bedrock	moist	evergreen forest	mid slope
1239666	570006	6943150	965	17-Jun-12	CO	30-40	c	lt brown		5				95	weathered bedrock	moist	evergreen forest	mid slope
1239667	570041	6943113	959	17-Jun-12	CO	20-30	c	lt brown	10					90	weathered bedrock	moist	evergreen forest	mid slope
1239668	570079	6943097	954	17-Jun-12	CO	30-40	c	lt brown		10				90	weathered bedrock	moist	evergreen forest	mid slope
1239669	570117	6943044	947	17-Jun-12	CO	40-50	c	dk grey						100	weathered bedrock	moist	evergreen forest	mid slope
1239670	570161	6943018	935	17-Jun-12	CO	30-40	c	dk grey	10					90	weathered bedrock	moist	evergreen forest	mid slope
1239671	570193	6942980	929	17-Jun-12	CO	30-40	b/c	dk brown	20					80	weathered bedrock	moist	evergreen forest	mid slope
1239672	570229	6942967	925	17-Jun-12	CO	30-40	c	lt grey		10				90	weathered bedrock	moist	evergreen forest	mid slope
1239673	570273	6942946	916	17-Jun-12	CO	30-40	c	lt brown						100	weathered bedrock	moist	evergreen forest	mid slope
1239674	570318	6942928	908	17-Jun-12	CO	30-40	c	lt brown	5					95	weathered bedrock	moist	evergreen forest	mid slope
1239675	570361	6942902	898	17-Jun-12	CO	30-40	c	lt brown						100	weathered bedrock	moist	evergreen forest	mid slope
1239676	570411	6942879	889	17-Jun-12	CO	40-50	c	dk grey		10				90	weathered bedrock	moist	evergreen forest	mid slope
1239677	570458	6942865	885	17-Jun-12	CO	20-30	b/c	dk brown	30					70	talus	moist	evergreen forest	mid slope
1239678	570490	6942824	877	17-Jun-12	CO	30-40	c	lt brown						100	weathered bedrock	moist	evergreen forest	mid slope
1239679	570523	6942792	873	17-Jun-12	CO	40-50	c	lt brown		5				95	weathered bedrock	moist	evergreen forest	mid slope
1239680	570553	6942754	864	17-Jun-12	CO	10-20	b	dk brown	50					50	talus	moist	evergreen forest	mid slope
1239681	570598	6942705	876	17-Jun-12	CO	40-50	c	lt brown						100	weathered bedrock	moist	evergreen forest	ridge top
1239682	570622	6942677	874	17-Jun-12	CO	30-40	c	lt brown						100	weathered bedrock	moist	evergreen forest	mid slope
1239683	570658	6942641	862	17-Jun-12	CO	30-40	c	lt brown						100	weathered bedrock	moist	deciduous forest	mid slope
1239684	570686	6942602	852	17-Jun-12	CO	10-20	b	dk brown	60					40	talus	dry	evergreen forest	mid slope
1239685	570735	6942561	847	17-Jun-12	CO	30-40	c	dk brown						100	weathered bedrock	moist	evergreen forest	mid slope
1239686	570769	6942525	845	17-Jun-12	CO													
1239687	570878	6942428	805	17-Jun-12	CO	30-40	c	lt brown						100	weathered bedrock	moist	evergreen forest	mid slope
1239688	570915	6942393	788	17-Jun-12	CO	20-30	c	dk brown	30					70	weathered bedrock	moist	evergreen forest	mid slope
1239689	570959	6942371	765	17-Jun-12	CO	40-50	c	dk brown						100	weathered bedrock	moist	deciduous forest	mid slope
1239690	570993	6942339	747	17-Jun-12	CO	30-40	c	lt brown						100	weathered bedrock	moist	evergreen forest	mid slope
1239691	571035	6942310	726	17-Jun-12	CO	30-40	c	dk brown	10					90	weathered bedrock	moist	deciduous forest	mid slope
1239692	571067	6942283	709	17-Jun-12	CO	30-40	c	dk brown	10					90	weathered bedrock	moist	deciduous forest	mid slope
1239693	571110	6942259	686	17-Jun-12	CO	30-40	c	lt brown						100	weathered bedrock	moist	deciduous forest	mid slope
1239694	571151	6942228	668	17-Jun-12	CO	40-50	c	lt brown						100	weathered bedrock	moist	deciduous forest	mid slope
1239695	571200	6942200	642	17-Jun-12	CO	50-60	c	lt grey						100	weathered bedrock	moist	deciduous forest	mid slope
1239696	571245	6942176	632	17-Jun-12	CO	50-60	c	lt brown						100	loess	moist	evergreen forest	mid slope
1239697	571330	6942142	623	17-Jun-12	CO	30-40	b/c	lt grey	10					90	loess	wet	evergreen forest	valley bottom
1239601	570124	6944616	1031	17-Jun-12	CO	60-70	c	dk grey	20	20				60	weathered bedrock	wet	buck brush	mid slope
1239602	570170	6944613	1034	17-Jun-12	CO	50-60	b/c	dk grey	20	10			20	50	weathered bedrock	moist	buck brush	mid slope
1239603	570222	6944610	1035	17-Jun-12	CO	40-50	c	lt brown	20	10			30	40	weathered bedrock	wet	buck brush	mid slope

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Sample Depth (cm)	Horizon	Colour	Composition					Parent Material	Moisture Content	Vegetation Cover	Topo Position	
									Org- anics	Ang- Rock	Gravel	Sand	Silt					Clay
1239604	570317	6944607	1035	17-Jun-12	CO	40-50	b/c	lt brown	20	20			30	30	weathered bedrock	moist	buck brush	mid slope
1239605	570419	6944598	1027	17-Jun-12	CO	40-50	c	lt brown	10	20			20	50	weathered bedrock	moist	buck brush	mid slope
1239606	570520	6944599	1029	17-Jun-12	CO	30-40	c	lt brown	20	20			30	30	weathered bedrock	wet	buck brush	mid slope
1239607	570619	6944589	1027	17-Jun-12	CO	30-40	c	lt brown	20	20			20	40	weathered bedrock	moist	buck brush	mid slope
1239608	570670	6944606	1030	17-Jun-12	CO	60-70	c	lt brown	10	20			30	40	weathered bedrock	moist	buck brush	mid slope
1239609	570727	6944597	1028	17-Jun-12	CO	50-60	c	lt brown	20	20			20	40	weathered bedrock	moist	buck brush	mid slope
1239610	570819	6944602	1030	17-Jun-12	CO	40-50	c	lt brown	20	20			30	30	weathered bedrock	moist	buck brush	mid slope
1239611	570870	6944599	1026	17-Jun-12	CO	40-50	c	lt brown	10	10			30	50	weathered bedrock	moist	buck brush	mid slope
1239612	570924	6944603	1027	17-Jun-12	CO	40-50	c	lt brown	10	20			20	50	weathered bedrock	moist	buck brush	mid slope
1239613	571027	6944581	1025	17-Jun-12	CO	50-60	c	lt brown	20	20			20	40	weathered bedrock	moist	buck brush	mid slope
1239614	571072	6944572	1025	17-Jun-12	CO	50-60	c	lt brown	10	30		20	20	20	weathered bedrock	partially frozen	buck brush	mid slope
1239615	571117	6944560	1021	17-Jun-12	CO	40-50	c	lt brown	10	20			20	50	weathered bedrock	moist	buck brush	mid slope
1239616	571214	6944535	1014	17-Jun-12	CO	30-40	b/c	lt brown	20	20			20	40	weathered bedrock	frozen	buck brush	mid slope
1239617	571258	6944523	1011	17-Jun-12	CO	40-50	c	lt brown	20	20			30	30	weathered bedrock	frozen	buck brush	mid slope
1239618	571304	6944513	1009	17-Jun-12	CO	50-60	c	lt brown	10	10			20	60	weathered bedrock	moist	buck brush	mid slope
1239619	571357	6944495	1007	17-Jun-12	CO	40-50	c	dk grey	10	10		10	30	40	weathered bedrock	moist	buck brush	mid slope
1239620	571449	6944461	1005	17-Jun-12	CO	50-60	c	lt brown	20	10			20	50	weathered bedrock	moist	buck brush	mid slope
1239621	571491	6944432	1001	17-Jun-12	CO	40-50	c	lt brown	20	10			20	50	weathered bedrock	moist	buck brush	mid slope
1239622	571549	6944364	994	17-Jun-12	CO	20-30	c	lt brown	20	20			10	50	weathered bedrock	moist	buck brush	mid slope
1239623	571587	6944326	994	17-Jun-12	CO	30-40	c	lt brown	20	10			30	40	weathered bedrock	moist	buck brush	mid slope
1239624	571622	6944287	993	17-Jun-12	CO	30-40	c	lt brown		30		30	20	20	weathered bedrock	moist	buck brush	mid slope
1239625	571694	6944218	997	17-Jun-12	CO	20-30	c	lt brown	10	20			40	30	weathered bedrock	moist	buck brush	mid slope
1239626	571653	6943983	926	17-Jun-12	CO	40-50	c	lt brown	10	20			30	40	weathered bedrock	moist	buck brush	mid slope
1239551	571734	6944183	1004	17-Jun-12	CO	30-40	b/c	lt brown		10			30	30	weathered bedrock	frozen	deciduous forest	mid slope
1239552	571759	6944149	990	17-Jun-12	CO	30-40	b	dk brown				20	40	40	weathered bedrock	frozen	deciduous forest	mid slope
1239553	571790	6944101	981	17-Jun-12	CO	30-40	b/c	dk brown							weathered bedrock	partially frozen	evergreen forest	mid slope
1239554	571808	6944056	970	17-Jun-12	CO	40-50	b	dk brown				20	40	40	weathered bedrock	partially frozen	evergreen forest	mid slope
1239555	571827	6944012	963	17-Jun-12	CO	30-40	b/c	dk brown				30	40	30	weathered bedrock	partially frozen	evergreen forest	mid slope
1239556	571840	6943968	956	17-Jun-12	CO	30-40	b	dk grey				20	40	40	weathered bedrock	saturated	evergreen forest	mid slope
1239557	571929	6943675	941	17-Jun-12	CO	30-40	a/b	dk grey	30			10	30	30	weathered bedrock	partially frozen	evergreen forest	mid slope
1239558	571936	6943628	939	17-Jun-12	CO	40-50	b/c	olive grey				30	40	30	weathered bedrock	partially frozen	evergreen forest	mid slope
1239559	571941	6943584	934	17-Jun-12	CO	40-50	a/b	dk grey	30			10	30	30	weathered bedrock	partially frozen	evergreen forest	mid slope
1239560	571927	6943522	927	17-Jun-12	CO	50-60	b	dk grey	10			20	30	40	weathered bedrock	partially frozen	evergreen forest	mid slope
1239561	571937	6943485	919	17-Jun-12	CO	50-60	b	dk grey				10	30	60	weathered bedrock	frozen	evergreen forest	mid slope
1239562	571924	6943425	915	17-Jun-12	CO	40-50	b	dk brown	20			20	30	30	weathered bedrock	partially frozen	evergreen forest	mid slope
1239563	571926	6943374	912	17-Jun-12	CO	10-20	b/c	dk brown	20			20	30	30	weathered bedrock	dry	evergreen forest	mid slope
1239564	571927	6943322	896	17-Jun-12	CO	70-80	b	dk grey				20	20	60	weathered bedrock	frozen	evergreen forest	mid slope
1239565	571928	6943278	885	17-Jun-12	CO	60-70	b/c	dk brown				30	40	30	weathered bedrock	partially frozen	evergreen forest	mid slope
1239566	571945	6943226	871	17-Jun-12	CO	50-60	b	dk brown				30	40	30	weathered bedrock	partially frozen	evergreen forest	mid slope
1239567	571943	6943174	858	17-Jun-12	CO	10-20	b/c	dk brown	20	10		20	30	20	weathered bedrock	dry	deciduous forest	mid slope
1239568	571932	6943128	842	17-Jun-12	CO	50-60	b	dk brown				30	40	30	weathered bedrock	partially frozen	evergreen forest	mid slope
1239569	571909	6942973	809	17-Jun-12	CO	30-40	b	dk brown	10			30	30	30	weathered bedrock	partially frozen	evergreen forest	mid slope
1239570	571888	6942927	796	17-Jun-12	CO	30-40	b	dk brown				20	30	50	weathered bedrock	partially frozen	evergreen forest	mid slope
1239571	571854	6942828	771	17-Jun-12	CO	40-50	c	lt brown				30	40	30	weathered bedrock	dry	evergreen forest	mid slope
1239572	571749	6942740		17-Jun-12	CO	20-30	b/c	dk brown	10			30	30	30	weathered bedrock	dry	evergreen forest	mid slope
1239573	571786	6942655	734	17-Jun-12	CO	40-50	b	lt brown				20	30	50	weathered bedrock	partially frozen	evergreen forest	mid slope
1239574	571686	6942559	742	17-Jun-12	CO	20-30	b/c	lt brown	10			30	30	30	weathered bedrock	dry	deciduous forest	mid slope
1239575	571666	6942474	733	17-Jun-12	CO	20-30	b/c	lt brown	10			30	30	30	weathered bedrock	moist	deciduous forest	ridge top
1239576	571708	6942362	712	17-Jun-12	CO	10-20	b/c	dk brown	10			30	30	30	weathered bedrock	dry	deciduous forest	ridge top
1239577	571699	6942258	683	17-Jun-12	CO	10-20	b/c	lt brown	10			30	30	30	weathered bedrock	dry	deciduous forest	ridge top
1239578	571659	6942179	653	17-Jun-12	CO	10-20	b/c	lt brown	10	20		20	30	20	weathered bedrock	dry	alpine	mid slope

CO Property Sample Descriptions

UTM NAD 83 Zone 7

ROCK SAMPLES

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Rock Source	Description
1205551	571540	6943890	882	17-Jun-12	CO	float	greenstone with biotite porphyroblasts and oxidized staining
1205552	571514	6943890	881	17-Jun-12	CO	outcrop	greenstone with biotite porphyroblasts, quartz veins approx 1cm, oxidized
1205553	571152	6943678	810	17-Jun-12	CO	outcrop	greenstone with calcite deposit (2cm wide), quartz veins approx 1cm
1205554	571165	6943605		17-Jun-12	CO	outcrop	greenstone with calcite, biotite, quartz porphyroblasts, extremely weathered
1205555	571202	6943517	756	17-Jun-12	CO	float	greenstone, abundant of biotite, with weathered quartz vein
1206401	570181	6944652	1036	17-Jun-12	CO	float	green/black basalt with iron oxidation
1206402	570182	6944645	1037	17-Jun-12	CO	subcrop	greenstone with oxidized recesses
1206403	570249	6944575	1022	17-Jun-12	CO	subcrop	vitreous greenstone cut by quartz veining, some oxidation
1206404	570823	6944434	985	17-Jun-12	CO	float	greenstone with localized oxides
1206405	571155	6944434	984	17-Jun-12	CO	float	basalt with localized oxidation and some quartz
1206406	571614	6944384	1006	17-Jun-12	CO	float	basalt with bladed grey porphyroblasts
1206407	571693	6944292	1010	17-Jun-12	CO	subcrop	basalt with galena, bornite?
1206408	571663	6942586	754	17-Jun-12	CO	outcrop	basalt with manganese oxide staining, some quartz stockwork veining, oxides

Appendix II: Soil Sample Assay Certificates



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: June 21, 2012
Report Date: July 05, 2012
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI12000151.1

CLIENT JOB INFORMATION

Project: CO
Shipment ID: COsoils
P.O. Number
Number of Samples: 101

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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

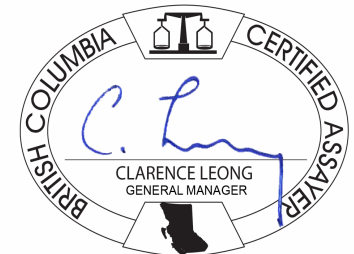
Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include methods like Dry at 60C, SS80, RJSV, and 1DX2.

ADDITIONAL COMMENTS



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



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Goldspike Exploration Inc.**
 56th Floor - 100 King Street West
 Toronto ON M5X 1C9 Canada

Project: CO
 Report Date: July 05, 2012

Page: 2 of 5

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI12000151.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm		
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001	1
1239651	Soil		0.4	36.8	6.4	51	<0.1	30.6	15.1	386	2.75	4.7	7.2	2.4	31	0.1	0.4	0.1	85	0.57	0.072	11	
1239652	Soil		1.1	25.0	9.9	51	<0.1	27.8	14.6	571	3.00	7.0	4.7	1.9	31	0.1	0.3	0.1	82	0.52	0.077	9	
1239653	Soil		0.6	23.2	8.1	47	<0.1	24.7	11.4	319	2.60	6.0	6.1	1.8	30	<0.1	0.3	0.1	73	0.59	0.083	9	
1239654	Soil		0.6	28.1	8.8	50	<0.1	27.7	11.0	259	2.78	6.3	6.3	2.2	28	<0.1	0.3	0.1	73	0.53	0.073	11	
1239655	Soil		0.5	24.6	12.1	47	<0.1	26.5	10.4	210	2.62	6.2	5.3	1.9	27	<0.1	0.3	0.1	72	0.48	0.065	9	
1239656	Soil		0.5	26.1	7.4	45	0.1	28.6	12.1	238	2.80	6.3	11.3	2.2	27	<0.1	0.3	<0.1	74	0.46	0.060	9	
1239657	Soil		0.5	36.0	40.9	36	<0.1	27.6	9.0	157	2.11	3.5	3.9	1.2	30	<0.1	0.4	<0.1	69	0.71	0.044	9	
1239658	Soil		1.0	25.4	8.7	53	<0.1	32.7	14.3	333	3.54	9.4	5.2	2.3	25	<0.1	0.4	0.1	93	0.39	0.047	9	
1239659	Soil		0.9	35.9	24.4	50	<0.1	36.3	17.1	409	3.59	5.9	4.4	2.0	27	<0.1	0.3	<0.1	88	0.56	0.069	9	
1239660	Soil		1.0	50.7	13.5	47	<0.1	63.7	18.2	304	3.29	7.7	4.9	2.0	30	<0.1	0.3	<0.1	78	0.63	0.043	10	
1239661	Soil		0.7	25.7	11.6	46	<0.1	35.0	14.6	354	2.85	6.5	3.8	2.2	28	<0.1	0.3	<0.1	80	0.48	0.051	9	
1239662	Soil		0.7	30.6	12.2	49	<0.1	32.5	14.0	456	3.01	6.6	6.0	2.2	33	<0.1	0.3	0.1	79	0.57	0.065	11	
1239663	Soil		0.6	32.2	9.9	40	<0.1	31.1	10.7	227	3.21	7.8	4.7	1.2	32	0.1	0.4	<0.1	73	0.59	0.062	10	
1239664	Soil		0.4	25.0	5.2	47	<0.1	30.3	12.0	286	2.83	6.2	1.4	2.1	28	<0.1	0.3	<0.1	78	0.49	0.051	9	
1239665	Soil		0.6	24.5	7.0	43	<0.1	42.7	13.8	308	2.81	5.2	3.9	2.1	29	0.1	0.3	<0.1	75	0.50	0.046	8	
1239666	Soil		0.7	41.3	9.0	45	<0.1	117.5	17.2	385	2.94	5.2	4.2	1.7	31	<0.1	0.3	<0.1	76	0.57	0.037	7	
1239667	Soil		0.4	34.7	6.0	39	<0.1	86.3	12.6	235	2.40	3.3	3.4	2.0	27	<0.1	0.2	<0.1	68	0.43	0.036	8	
1239668	Soil		0.7	45.6	9.2	48	<0.1	72.6	13.5	285	2.73	4.8	3.5	2.5	34	<0.1	0.3	<0.1	74	0.58	0.059	11	
1239669	Soil		0.6	33.4	7.2	47	<0.1	66.2	13.1	263	2.79	6.5	2.9	2.3	30	<0.1	0.3	<0.1	76	0.51	0.051	10	
1239670	Soil		0.6	34.3	8.7	46	<0.1	62.7	13.9	327	2.92	6.4	3.1	2.5	32	<0.1	0.3	<0.1	76	0.50	0.037	12	
1239671	Soil		0.9	26.0	12.2	38	<0.1	48.5	10.4	282	2.66	6.1	2.1	1.6	26	0.2	0.3	0.1	72	0.37	0.031	9	
1239672	Soil		0.7	46.8	7.4	51	<0.1	168.7	21.2	309	3.59	5.8	2.7	2.6	29	<0.1	0.3	<0.1	84	0.52	0.041	11	
1239673	Soil		0.9	28.2	9.2	46	<0.1	88.6	17.2	381	3.51	7.8	2.4	2.6	28	<0.1	0.3	<0.1	89	0.42	0.026	10	
1239674	Soil		1.0	20.4	8.7	40	<0.1	41.5	11.6	268	3.26	7.7	1.6	2.0	25	<0.1	0.4	0.1	93	0.34	0.020	9	
1239675	Soil		0.8	27.1	7.0	41	<0.1	39.3	11.1	273	2.95	6.8	2.5	2.2	24	<0.1	0.3	<0.1	83	0.35	0.024	10	
1239676	Soil		1.1	41.6	8.5	46	<0.1	59.5	15.3	470	3.15	7.7	4.5	3.0	29	<0.1	0.4	<0.1	84	0.56	0.043	12	
1239677	Soil		1.2	22.2	8.8	42	<0.1	30.3	13.6	333	3.74	8.8	3.3	1.7	25	<0.1	0.4	0.2	112	0.42	0.028	7	
1239678	Soil		1.5	40.5	10.3	56	<0.1	39.4	17.0	614	3.86	6.9	3.9	3.0	34	<0.1	0.6	0.1	111	0.72	0.039	13	
1239679	Soil		0.9	24.7	10.8	43	<0.1	29.8	11.8	303	3.08	6.2	4.7	2.1	31	<0.1	0.4	<0.1	88	0.63	0.037	7	
1239680	Soil		1.0	31.4	8.2	43	<0.1	27.6	11.9	432	3.03	6.5	3.2	1.7	36	<0.1	0.4	0.1	85	0.81	0.040	12	

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Project: CO
Report Date: July 05, 2012

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te
			ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
			1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	1	0.2	
1239651	Soil		47	0.73	162	0.087	2	2.10	0.035	0.04	0.1	0.04	9.2	<0.1	<0.05	6	<0.5	2	<0.2
1239652	Soil		47	0.69	171	0.083	2	2.28	0.029	0.04	0.2	0.03	5.1	0.1	<0.05	7	<0.5	4	<0.2
1239653	Soil		43	0.71	167	0.081	2	2.20	0.032	0.04	0.2	0.04	5.6	0.1	<0.05	6	<0.5	3	<0.2
1239654	Soil		44	0.70	174	0.093	2	2.31	0.027	0.04	0.2	0.03	6.0	0.1	<0.05	7	<0.5	3	<0.2
1239655	Soil		44	0.73	146	0.094	3	2.35	0.027	0.04	0.1	0.03	5.3	0.1	<0.05	7	<0.5	13	<0.2
1239656	Soil		44	0.69	142	0.100	2	2.47	0.025	0.04	0.1	0.04	4.9	0.1	<0.05	7	<0.5	2	<0.2
1239657	Soil		38	0.55	127	0.079	2	2.02	0.026	0.03	<0.1	0.05	5.4	0.1	<0.05	6	<0.5	66	<0.2
1239658	Soil		48	0.73	155	0.121	2	2.84	0.023	0.04	0.1	0.02	5.3	<0.1	<0.05	8	<0.5	3	<0.2
1239659	Soil		50	0.78	101	0.100	2	2.43	0.029	0.03	0.1	0.04	7.8	<0.1	<0.05	7	<0.5	35	<0.2
1239660	Soil		67	1.08	122	0.096	2	2.73	0.034	0.04	0.1	0.03	6.7	<0.1	<0.05	7	<0.5	8	<0.2
1239661	Soil		61	0.81	142	0.103	2	2.57	0.037	0.04	0.1	0.03	5.6	<0.1	<0.05	7	<0.5	9	<0.2
1239662	Soil		53	0.70	173	0.090	2	2.33	0.033	0.04	0.1	0.04	7.2	0.1	<0.05	7	<0.5	5	<0.2
1239663	Soil		49	0.60	169	0.071	2	2.29	0.036	0.03	0.1	0.04	6.6	<0.1	<0.05	6	<0.5	8	<0.2
1239664	Soil		53	0.78	160	0.103	2	2.49	0.027	0.04	0.1	0.01	5.3	<0.1	<0.05	7	<0.5	<1	<0.2
1239665	Soil		72	0.88	152	0.103	1	2.49	0.030	0.03	0.1	0.03	4.7	<0.1	<0.05	6	<0.5	3	<0.2
1239666	Soil		166	1.39	193	0.088	<1	2.96	0.025	0.02	<0.1	0.01	5.7	<0.1	<0.05	6	<0.5	4	<0.2
1239667	Soil		123	1.00	121	0.117	1	2.31	0.024	0.03	<0.1	0.02	4.1	<0.1	<0.05	6	<0.5	2	<0.2
1239668	Soil		100	0.95	163	0.107	1	2.32	0.034	0.03	0.1	0.01	5.8	<0.1	<0.05	6	<0.5	3	<0.2
1239669	Soil		93	0.89	158	0.108	2	2.54	0.028	0.04	0.1	0.03	5.1	0.1	<0.05	7	<0.5	2	<0.2
1239670	Soil		89	0.78	182	0.109	2	2.51	0.026	0.04	0.1	0.03	6.3	<0.1	<0.05	7	<0.5	3	<0.2
1239671	Soil		76	0.60	135	0.094	1	2.24	0.021	0.03	0.1	0.03	4.6	<0.1	<0.05	7	<0.5	9	<0.2
1239672	Soil		189	0.83	147	0.101	<1	2.58	0.028	0.04	<0.1	0.02	8.6	<0.1	<0.05	7	<0.5	2	<0.2
1239673	Soil		115	0.80	180	0.103	1	2.77	0.022	0.04	<0.1	0.02	6.2	0.1	<0.05	7	<0.5	5	<0.2
1239674	Soil		68	0.68	149	0.106	<1	2.37	0.015	0.03	<0.1	0.01	5.0	0.1	<0.05	8	<0.5	2	<0.2
1239675	Soil		61	0.65	168	0.096	<1	2.38	0.018	0.03	<0.1	0.02	4.9	0.1	<0.05	7	<0.5	1	<0.2
1239676	Soil		100	0.91	202	0.106	1	2.32	0.025	0.04	0.1	0.02	8.1	<0.1	<0.05	6	<0.5	2	<0.2
1239677	Soil		55	0.66	139	0.131	1	2.63	0.016	0.03	0.1	0.01	5.3	0.1	<0.05	8	<0.5	3	<0.2
1239678	Soil		68	0.95	161	0.125	1	2.66	0.044	0.04	0.1	0.03	12.6	<0.1	<0.05	8	<0.5	3	<0.2
1239679	Soil		51	0.76	163	0.122	1	2.13	0.033	0.04	0.1	0.01	5.0	<0.1	<0.05	6	<0.5	5	<0.2
1239680	Soil		47	0.65	161	0.104	1	2.25	0.035	0.04	<0.1	0.04	5.8	<0.1	<0.05	7	<0.5	2	<0.2



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1239681	Soil	1.2	40.5	9.5	48	<0.1	39.2	15.9	333	3.46	9.4	7.2	3.2	30	<0.1	0.5	0.1	100	0.48	0.012	14
1239682	Soil	0.9	46.0	9.6	53	<0.1	35.2	13.5	410	2.97	8.3	2.9	2.8	44	<0.1	0.4	<0.1	82	1.06	0.056	14
1239683	Soil	1.2	35.3	10.1	50	<0.1	35.4	16.7	486	3.24	7.3	1.9	2.9	40	<0.1	0.4	<0.1	91	0.67	0.036	15
1239684	Soil	1.3	24.4	7.1	63	<0.1	25.5	13.1	1404	2.75	4.7	1.2	1.2	31	0.4	0.4	0.1	72	0.51	0.037	6
1239685	Soil	1.6	42.7	7.3	51	<0.1	35.3	17.5	323	4.49	7.1	2.4	1.9	18	<0.1	0.5	<0.1	148	0.35	0.011	8
1239686	Soil	1.5	17.1	7.5	60	<0.1	25.8	12.0	257	4.09	6.1	3.5	1.5	16	<0.1	0.6	0.1	115	0.26	0.016	6
1239687	Soil	1.0	40.6	8.5	44	<0.1	34.9	13.7	391	2.96	8.5	7.3	3.4	29	<0.1	0.5	0.1	90	0.59	0.029	14
1239688	Soil	1.4	23.0	11.7	42	<0.1	29.7	15.0	452	3.38	5.7	2.1	2.3	29	0.1	0.5	0.1	90	0.55	0.025	8
1239689	Soil	1.2	30.4	8.6	47	<0.1	35.8	16.0	528	3.47	6.5	2.0	2.9	26	<0.1	0.5	0.1	102	0.50	0.017	11
1239690	Soil	1.2	57.7	16.5	57	<0.1	50.2	22.7	644	4.27	6.8	12.6	2.4	32	<0.1	0.5	<0.1	120	0.85	0.021	13
1239691	Soil	1.5	23.7	9.3	44	<0.1	31.3	14.4	388	3.39	6.5	1.7	2.4	25	0.1	0.4	0.1	102	0.60	0.016	8
1239692	Soil	1.7	34.4	21.7	45	<0.1	40.0	15.7	465	3.32	8.0	2.7	3.0	32	<0.1	0.5	0.1	98	0.72	0.015	12
1239693	Soil	1.0	53.1	10.4	56	<0.1	41.0	16.4	732	3.51	6.2	1.3	3.0	41	0.1	0.5	0.1	99	0.83	0.039	16
1239694	Soil	1.0	42.2	12.1	60	<0.1	41.1	16.7	530	3.57	7.6	2.2	3.3	45	<0.1	0.5	0.1	97	0.81	0.043	16
1239695	Soil	0.7	43.6	7.4	55	<0.1	32.1	12.7	444	2.84	6.6	5.9	2.7	67	0.1	0.5	<0.1	79	2.37	0.066	12
1239696	Soil	0.7	40.5	8.0	51	<0.1	33.9	13.2	432	2.90	7.1	11.7	2.9	40	<0.1	0.4	<0.1	83	0.80	0.061	12
1239697	Soil	0.6	36.1	5.5	52	<0.1	29.5	11.4	420	2.62	7.1	1.9	3.0	43	0.1	0.4	<0.1	75	1.19	0.082	11
1239601	Soil	0.9	55.9	10.1	45	0.1	41.6	15.2	467	2.68	6.8	1.4	1.3	36	0.1	0.3	0.1	86	0.86	0.055	9
1239602	Soil	0.8	59.3	8.5	47	0.1	49.1	16.3	531	3.01	10.3	2.1	1.5	34	0.1	0.3	<0.1	94	0.79	0.051	10
1239603	Soil	0.8	44.2	8.4	50	<0.1	40.8	15.5	499	2.97	6.1	5.4	2.0	31	0.1	0.3	0.1	92	0.64	0.040	10
1239604	Soil	0.8	62.1	8.8	46	0.1	51.9	19.1	654	3.31	8.3	4.8	1.7	35	<0.1	0.3	0.1	117	1.03	0.040	11
1239605	Soil	0.9	42.0	12.4	44	<0.1	49.5	15.8	513	3.04	8.0	9.0	2.7	38	<0.1	0.3	<0.1	87	1.09	0.040	11
1239606	Soil	0.9	43.6	10.6	46	<0.1	64.0	15.1	417	2.80	6.5	2.8	1.7	39	0.1	0.2	<0.1	79	0.77	0.036	8
1239607	Soil	0.6	47.8	8.0	42	0.1	49.6	13.6	473	2.82	11.1	4.1	1.4	40	<0.1	0.4	0.1	79	1.04	0.054	11
1239608	Soil	0.9	42.7	5.9	42	<0.1	44.3	14.0	450	2.67	7.4	7.2	2.1	42	<0.1	0.2	0.1	80	1.12	0.037	10
1239609	Soil	1.1	46.4	9.6	42	<0.1	51.4	15.6	470	2.82	6.8	13.1	2.0	49	<0.1	0.3	0.1	78	1.23	0.037	10
1239610	Soil	0.8	36.5	11.2	46	<0.1	40.8	12.8	421	2.70	6.8	4.8	2.0	38	0.1	0.3	0.1	82	0.92	0.042	9
1239611	Soil	0.6	75.8	10.0	38	<0.1	46.0	12.6	404	2.60	5.7	11.1	2.2	45	0.1	0.3	0.2	77	1.02	0.041	10
1239612	Soil	1.0	46.8	9.0	44	<0.1	46.9	16.8	574	2.98	7.1	3.1	2.3	44	<0.1	0.3	0.1	87	0.92	0.038	11
1239613	Soil	0.8	50.2	11.1	43	0.1	47.3	15.9	542	2.80	6.0	7.3	1.9	41	<0.1	0.3	0.1	79	0.87	0.031	10

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	1	0.2	
1239681	Soil	61	0.76	199	0.120	<1	2.59	0.029	0.04	<0.1	0.02	9.4	<0.1	<0.05	7	<0.5	3	<0.2
1239682	Soil	46	0.74	169	0.110	2	1.85	0.045	0.05	0.1	0.02	7.2	<0.1	<0.05	6	<0.5	3	<0.2
1239683	Soil	57	0.75	229	0.113	2	2.37	0.029	0.04	0.1	0.01	8.2	<0.1	<0.05	7	<0.5	3	<0.2
1239684	Soil	35	0.50	281	0.079	2	1.93	0.029	0.05	<0.1	0.02	3.5	0.1	<0.05	7	<0.5	1	<0.2
1239685	Soil	70	0.89	81	0.193	1	2.85	0.012	0.02	<0.1	<0.01	7.3	<0.1	<0.05	9	<0.5	2	<0.2
1239686	Soil	47	0.69	59	0.104	<1	2.30	0.011	0.02	<0.1	0.01	4.1	<0.1	<0.05	8	<0.5	1	<0.2
1239687	Soil	52	0.68	144	0.110	1	1.97	0.034	0.04	0.2	0.02	7.9	<0.1	<0.05	6	<0.5	2	<0.2
1239688	Soil	53	0.62	170	0.089	1	2.37	0.023	0.04	<0.1	0.02	6.8	<0.1	<0.05	7	<0.5	4	<0.2
1239689	Soil	61	0.66	137	0.107	<1	2.55	0.022	0.04	0.1	0.01	8.0	<0.1	<0.05	7	<0.5	2	<0.2
1239690	Soil	73	1.17	157	0.166	1	2.64	0.033	0.03	<0.1	0.03	11.7	<0.1	<0.05	8	<0.5	8	<0.2
1239691	Soil	63	0.66	125	0.105	1	2.38	0.021	0.03	0.1	0.02	7.1	<0.1	<0.05	7	<0.5	3	<0.2
1239692	Soil	66	0.73	125	0.125	1	2.17	0.032	0.05	0.1	0.01	8.5	<0.1	<0.05	7	<0.5	11	<0.2
1239693	Soil	60	0.85	198	0.127	2	2.31	0.058	0.06	<0.1	0.03	8.8	<0.1	<0.05	7	<0.5	4	<0.2
1239694	Soil	60	0.91	203	0.126	2	2.21	0.052	0.06	0.1	0.02	8.6	<0.1	<0.05	7	<0.5	4	<0.2
1239695	Soil	41	0.90	141	0.112	2	1.66	0.056	0.06	0.1	0.02	5.6	<0.1	<0.05	5	<0.5	2	<0.2
1239696	Soil	44	0.85	165	0.107	2	1.85	0.059	0.05	0.1	0.02	6.0	<0.1	<0.05	6	<0.5	2	<0.2
1239697	Soil	34	0.82	111	0.110	3	1.41	0.054	0.10	0.2	0.02	4.9	<0.1	<0.05	5	<0.5	<1	<0.2
1239601	Soil	47	0.71	155	0.077	1	2.50	0.032	0.04	0.1	0.05	5.5	0.1	<0.05	6	<0.5	4	<0.2
1239602	Soil	50	0.88	153	0.075	1	2.75	0.040	0.03	<0.1	0.04	7.2	<0.1	<0.05	7	<0.5	3	<0.2
1239603	Soil	52	0.78	163	0.090	1	2.86	0.035	0.03	<0.1	0.03	6.2	0.1	<0.05	7	<0.5	3	<0.2
1239604	Soil	82	0.93	166	0.076	<1	3.12	0.052	0.03	0.1	0.04	10.0	<0.1	0.06	7	<0.5	3	<0.2
1239605	Soil	73	0.95	142	0.083	1	2.72	0.053	0.03	<0.1	0.03	7.9	<0.1	0.06	6	<0.5	5	<0.2
1239606	Soil	54	1.00	183	0.087	<1	3.24	0.044	0.03	<0.1	0.03	5.1	<0.1	<0.05	8	<0.5	5	<0.2
1239607	Soil	58	0.85	169	0.081	<1	3.13	0.044	0.04	<0.1	0.05	5.8	<0.1	<0.05	7	<0.5	3	<0.2
1239608	Soil	63	0.91	181	0.087	1	3.77	0.057	0.04	<0.1	0.04	6.1	<0.1	<0.05	8	<0.5	1	<0.2
1239609	Soil	74	0.92	188	0.084	1	3.89	0.065	0.04	<0.1	0.02	6.1	<0.1	0.06	7	<0.5	3	<0.2
1239610	Soil	57	0.88	195	0.096	1	3.67	0.049	0.04	0.1	0.03	4.9	<0.1	0.11	7	<0.5	5	<0.2
1239611	Soil	80	0.91	155	0.089	<1	3.43	0.058	0.04	0.1	0.03	6.8	<0.1	0.07	7	<0.5	4	<0.2
1239612	Soil	78	0.82	215	0.092	<1	3.69	0.049	0.03	0.1	0.03	5.8	<0.1	0.08	8	<0.5	3	<0.2
1239613	Soil	61	0.75	188	0.091	<1	3.19	0.037	0.03	<0.1	0.03	5.3	<0.1	<0.05	7	<0.5	4	<0.2

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Project: CO
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CERTIFICATE OF ANALYSIS

WHI12000151.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1239614	Soil		0.7	58.8	8.7	43	<0.1	47.6	14.1	403	2.72	5.4	4.6	2.2	55	<0.1	0.3	0.1	80	0.97	0.034	9
1239615	Soil		1.5	69.4	15.5	47	<0.1	54.9	15.3	481	3.00	7.0	2.6	2.4	46	<0.1	0.4	0.1	87	1.03	0.035	12
1239616	Soil		0.7	55.7	8.1	39	<0.1	73.4	16.6	570	2.60	5.8	5.0	1.3	41	0.2	0.4	<0.1	73	1.17	0.048	10
1239617	Soil		0.6	93.5	7.2	35	0.2	48.6	18.5	1361	2.67	5.7	3.1	1.3	53	<0.1	0.5	0.1	80	1.42	0.055	13
1239618	Soil		0.9	47.1	9.5	39	<0.1	37.3	14.6	351	2.83	5.6	8.4	2.4	63	<0.1	0.3	0.1	89	0.68	0.023	11
1239619	Soil		0.8	50.5	11.9	41	0.2	37.8	17.5	1013	3.08	6.9	2.5	2.5	50	<0.1	0.3	0.1	91	0.91	0.029	11
1239620	Soil		0.8	53.9	8.7	44	<0.1	45.0	14.5	412	3.06	7.5	3.5	3.1	84	<0.1	0.3	0.1	87	0.86	0.037	13
1239621	Soil		0.6	86.9	12.0	30	<0.1	55.1	18.7	435	2.92	3.8	2.1	1.4	144	<0.1	0.2	0.1	78	1.43	0.024	5
1239622	Soil		0.8	52.3	7.8	33	<0.1	47.3	14.6	281	2.82	4.2	7.7	1.5	106	<0.1	0.2	0.3	79	0.78	0.014	6
1239623	Soil		0.9	80.7	13.3	36	<0.1	51.7	20.2	394	2.99	4.7	8.8	1.8	164	<0.1	0.3	0.5	84	0.98	0.016	7
1239624	Soil		0.5	80.5	4.3	31	<0.1	55.9	20.2	323	2.88	4.3	0.5	1.6	140	<0.1	0.3	0.1	87	1.19	0.015	5
1239625	Soil		0.7	43.1	6.9	45	<0.1	33.8	13.8	385	3.09	6.5	2.5	2.5	43	<0.1	0.3	0.1	94	0.66	0.028	10
1239626	Soil		0.5	55.7	8.0	38	0.1	31.6	10.6	282	2.30	5.0	5.9	1.9	55	0.1	0.3	0.1	63	0.89	0.046	11
1239551	Soil		0.7	54.5	6.6	29	<0.1	37.2	16.5	216	2.19	3.6	1.5	1.0	171	<0.1	0.3	<0.1	65	0.73	0.013	5
1239552	Soil		1.0	49.7	7.6	45	<0.1	40.1	14.0	426	3.03	7.7	3.3	2.9	51	<0.1	0.4	0.1	86	0.77	0.039	12
1239553	Soil		0.9	52.2	8.5	39	0.1	44.9	18.1	552	2.89	6.8	2.3	2.0	46	0.1	0.3	0.2	80	0.71	0.016	8
1239554	Soil		0.9	36.9	7.9	42	<0.1	37.2	14.5	400	2.74	6.6	3.4	2.0	42	0.1	0.3	0.1	78	0.69	0.025	9
1239555	Soil		0.7	49.2	7.3	36	<0.1	34.2	15.7	371	2.79	6.4	2.2	2.1	33	<0.1	0.3	0.1	83	0.52	0.016	8
1239556	Soil		0.6	68.9	4.9	31	<0.1	42.3	15.4	323	2.45	4.6	1.3	1.3	48	<0.1	0.2	0.1	73	0.78	0.021	5
1239557	Soil		0.5	73.0	5.5	42	0.1	56.5	16.3	312	2.82	6.5	2.7	1.4	34	<0.1	0.4	<0.1	73	0.92	0.043	10
1239558	Soil		0.6	42.5	11.4	43	<0.1	40.4	15.7	407	2.84	7.6	3.6	1.8	31	<0.1	0.4	<0.1	85	0.66	0.025	8
1239559	Soil		0.8	45.0	7.8	45	0.1	43.9	17.3	381	3.12	8.7	1.2	1.5	30	0.1	0.4	<0.1	89	0.65	0.035	8
1239560	Soil		0.7	47.6	16.0	40	<0.1	48.2	16.9	404	2.80	6.4	2.9	1.9	27	<0.1	0.4	<0.1	76	0.63	0.026	8
1239561	Soil		0.8	61.5	8.2	46	<0.1	49.3	17.9	453	3.44	9.0	4.1	2.9	29	0.1	0.5	<0.1	97	0.67	0.034	13
1239562	Soil		0.7	59.4	7.9	42	0.1	55.2	21.8	544	3.27	10.0	2.2	1.7	32	0.1	0.5	<0.1	82	0.76	0.028	9
1239563	Soil		0.9	41.9	4.5	45	<0.1	46.8	18.2	743	2.86	4.6	1.0	0.9	29	0.2	0.4	<0.1	83	0.54	0.028	5
1239564	Soil		0.5	40.6	9.3	47	<0.1	34.0	11.8	367	2.95	7.2	5.5	3.1	35	<0.1	0.4	<0.1	80	0.74	0.067	13
1239565	Soil		0.6	50.5	6.9	46	0.1	39.8	14.3	392	3.09	9.5	3.8	2.8	34	<0.1	0.5	<0.1	89	0.74	0.029	15
1239566	Soil		0.5	56.6	7.6	48	<0.1	38.4	16.0	484	2.77	8.4	5.6	2.0	73	0.2	0.4	<0.1	75	4.03	0.049	11
1239567	Soil		0.8	32.5	6.6	44	<0.1	30.6	15.7	394	2.80	5.9	1.9	1.5	25	0.1	0.3	<0.1	85	0.52	0.023	7

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	1	0.2	
1239614	Soil	75	0.85	152	0.088	<1	3.08	0.054	0.04	0.1	0.02	6.3	<0.1	0.06	7	<0.5	3	<0.2
1239615	Soil	71	0.89	163	0.098	1	3.32	0.060	0.04	0.1	0.04	7.3	<0.1	0.07	7	<0.5	7	<0.2
1239616	Soil	75	0.95	183	0.071	<1	2.97	0.037	0.03	0.1	0.03	5.3	<0.1	0.12	6	<0.5	3	<0.2
1239617	Soil	71	0.73	187	0.068	1	3.09	0.048	0.03	0.2	0.06	6.1	<0.1	0.08	7	0.5	3	<0.2
1239618	Soil	60	0.76	167	0.107	<1	3.05	0.044	0.03	0.1	0.02	6.2	<0.1	<0.05	7	<0.5	5	<0.2
1239619	Soil	61	0.76	217	0.100	1	3.36	0.052	0.03	<0.1	0.03	6.9	<0.1	<0.05	8	<0.5	5	<0.2
1239620	Soil	66	0.88	200	0.101	1	3.10	0.056	0.04	<0.1	0.02	7.7	<0.1	<0.05	7	<0.5	3	<0.2
1239621	Soil	88	1.38	113	0.039	<1	4.48	0.080	0.04	<0.1	0.03	8.8	<0.1	<0.05	8	<0.5	7	<0.2
1239622	Soil	58	0.97	183	0.070	<1	3.53	0.051	0.03	<0.1	0.01	4.6	<0.1	<0.05	7	<0.5	3	<0.2
1239623	Soil	72	1.05	164	0.079	<1	3.74	0.081	0.03	<0.1	0.01	7.5	<0.1	0.08	7	<0.5	7	<0.2
1239624	Soil	105	1.23	121	0.076	<1	4.25	0.091	0.03	<0.1	0.02	7.6	<0.1	<0.05	8	<0.5	<1	<0.2
1239625	Soil	57	0.81	167	0.119	<1	2.70	0.052	0.04	0.1	0.04	5.9	<0.1	<0.05	7	<0.5	1	<0.2
1239626	Soil	42	0.64	138	0.075	2	2.00	0.046	0.03	0.1	0.03	4.8	<0.1	<0.05	5	<0.5	3	<0.2
1239551	Soil	56	0.69	94	0.034	1	2.92	0.071	0.02	<0.1	0.01	4.3	<0.1	<0.05	6	<0.5	2	<0.2
1239552	Soil	59	0.78	164	0.101	2	2.47	0.054	0.04	0.1	0.03	6.8	<0.1	<0.05	6	<0.5	2	<0.2
1239553	Soil	60	0.83	166	0.086	2	2.99	0.060	0.03	<0.1	0.03	5.8	<0.1	<0.05	7	<0.5	3	<0.2
1239554	Soil	50	0.80	155	0.103	2	2.37	0.041	0.03	0.1	0.01	4.5	<0.1	<0.05	6	<0.5	2	<0.2
1239555	Soil	54	0.75	162	0.094	2	2.58	0.036	0.03	0.2	0.03	4.4	<0.1	<0.05	6	<0.5	2	<0.2
1239556	Soil	72	0.95	167	0.075	1	2.93	0.076	0.02	0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<1	<0.2
1239557	Soil	70	0.92	114	0.079	1	2.34	0.054	0.03	<0.1	0.05	6.8	<0.1	<0.05	5	<0.5	1	<0.2
1239558	Soil	62	0.85	154	0.098	1	2.57	0.044	0.03	0.1	0.02	5.4	<0.1	<0.05	6	<0.5	3	<0.2
1239559	Soil	64	0.82	161	0.085	<1	2.80	0.031	0.03	0.1	0.04	5.2	0.1	<0.05	7	<0.5	2	<0.2
1239560	Soil	69	0.89	110	0.101	1	2.21	0.053	0.03	<0.1	0.03	5.9	<0.1	<0.05	5	<0.5	5	<0.2
1239561	Soil	73	0.80	160	0.111	1	3.01	0.043	0.04	<0.1	0.04	8.8	<0.1	<0.05	7	<0.5	2	<0.2
1239562	Soil	79	0.98	150	0.077	1	2.87	0.056	0.03	<0.1	0.04	7.4	<0.1	<0.05	7	<0.5	1	<0.2
1239563	Soil	77	0.88	135	0.087	<1	2.86	0.023	0.04	<0.1	0.02	4.2	<0.1	<0.05	7	<0.5	<1	<0.2
1239564	Soil	47	0.77	179	0.111	1	1.84	0.036	0.05	0.2	0.02	5.8	<0.1	<0.05	6	<0.5	2	<0.2
1239565	Soil	57	0.82	159	0.122	2	2.11	0.044	0.05	0.1	0.04	7.0	<0.1	<0.05	6	<0.5	2	<0.2
1239566	Soil	46	0.84	136	0.119	2	1.60	0.049	0.05	0.2	0.04	4.8	<0.1	<0.05	5	<0.5	1	<0.2
1239567	Soil	58	0.82	90	0.086	<1	2.45	0.028	0.04	<0.1	0.01	5.9	<0.1	<0.05	6	<0.5	2	<0.2

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CERTIFICATE OF ANALYSIS

WHI12000151.1

	Method	1DX15																				
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01	0.001	1
1239568	Soil	1.0	62.4	16.9	52	<0.1	44.2	17.5	505	3.39	9.2	6.8	2.7	35	<0.1	0.4	<0.1	95	0.75	0.021	15	
1239569	Soil	0.4	40.8	6.6	46	<0.1	50.5	15.5	521	3.20	14.6	2.6	2.4	31	0.1	0.5	<0.1	78	0.78	0.052	12	
1239570	Soil	1.5	21.3	20.9	59	0.2	37.4	12.3	482	3.11	11.0	2.4	3.6	22	0.2	0.6	0.1	76	0.44	0.028	10	
1239571	Soil	0.7	35.1	7.5	44	0.1	35.9	10.3	322	2.90	11.0	3.4	3.8	29	<0.1	0.5	<0.1	73	0.52	0.037	16	
1239572	Soil	1.5	20.7	13.1	61	0.2	37.8	14.9	919	3.34	6.5	1.1	2.6	21	0.3	0.5	0.1	90	0.33	0.022	10	
1239573	Soil	0.6	29.7	7.0	45	<0.1	39.6	12.4	347	3.07	7.4	2.6	3.7	29	<0.1	0.3	<0.1	84	0.66	0.077	16	
1239574	Soil	1.0	28.6	6.0	67	<0.1	44.5	36.4	901	6.43	14.6	24.5	1.8	22	0.1	0.7	<0.1	195	0.41	0.040	6	
1239575	Soil	1.0	41.8	5.1	47	<0.1	53.8	21.2	404	4.13	6.1	1.6	1.9	18	<0.1	0.4	<0.1	124	0.58	0.019	8	
1239576	Soil	1.5	35.2	6.0	70	<0.1	34.6	20.1	690	4.66	6.2	<0.5	1.8	24	0.1	0.5	0.1	146	0.58	0.032	8	
1239577	Soil	1.0	30.0	7.5	86	<0.1	30.8	19.7	1275	4.05	7.1	2.7	1.8	29	0.2	0.5	0.1	109	0.65	0.093	8	
1239578	Soil	1.0	26.5	6.2	74	<0.1	27.5	17.8	669	3.51	5.5	1.0	1.3	28	0.2	0.5	<0.1	98	0.65	0.048	6	



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	1	0.2	
1239568	Soil	61	0.86	147	0.131	1	2.29	0.048	0.05	<0.1	0.04	7.9	<0.1	<0.05	6	<0.5	5	<0.2
1239569	Soil	65	0.68	169	0.095	2	1.58	0.036	0.04	0.2	0.10	8.9	<0.1	<0.05	5	<0.5	1	<0.2
1239570	Soil	52	0.63	169	0.093	<1	2.10	0.016	0.06	0.1	0.03	4.7	<0.1	<0.05	6	<0.5	4	<0.2
1239571	Soil	48	0.66	143	0.103	<1	1.70	0.030	0.05	0.1	0.03	7.2	<0.1	<0.05	5	<0.5	1	<0.2
1239572	Soil	50	0.57	170	0.079	<1	2.31	0.019	0.04	<0.1	0.02	4.4	<0.1	<0.05	8	<0.5	1	<0.2
1239573	Soil	59	0.77	138	0.117	<1	1.93	0.030	0.05	0.1	0.02	8.2	<0.1	<0.05	6	<0.5	2	<0.2
1239574	Soil	93	1.43	118	0.050	<1	3.16	0.012	0.03	0.1	0.03	16.1	<0.1	<0.05	10	<0.5	2	<0.2
1239575	Soil	112	1.19	61	0.140	<1	3.26	0.024	0.03	<0.1	0.01	11.5	<0.1	<0.05	8	<0.5	<1	<0.2
1239576	Soil	62	0.90	109	0.114	<1	2.94	0.015	0.03	<0.1	0.02	11.1	<0.1	<0.05	9	<0.5	<1	<0.2
1239577	Soil	51	0.73	154	0.096	2	2.79	0.026	0.07	<0.1	0.03	9.5	<0.1	<0.05	8	<0.5	<1	<0.2
1239578	Soil	54	0.71	123	0.098	1	2.48	0.022	0.05	<0.1	0.02	7.9	<0.1	<0.05	8	<0.5	1	<0.2



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QUALITY CONTROL REPORT

WHI12000151.1

Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P	1DX15 La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																							
1239651	Soil			0.4	36.8	6.4	51	<0.1	30.6	15.1	386	2.75	4.7	7.2	2.4	31	0.1	0.4	0.1	85	0.57	0.072	11
REP 1239651	QC			0.4	37.1	6.2	53	<0.1	31.5	15.7	397	2.90	5.2	11.0	2.4	33	0.1	0.4	0.1	85	0.59	0.076	11
1239676	Soil			1.1	41.6	8.5	46	<0.1	59.5	15.3	470	3.15	7.7	4.5	3.0	29	<0.1	0.4	<0.1	84	0.56	0.043	12
REP 1239676	QC			0.8	42.0	10.7	47	<0.1	58.3	15.0	453	3.07	7.3	2.2	3.0	30	<0.1	0.3	<0.1	83	0.58	0.044	13
1239687	Soil			1.0	40.6	8.5	44	<0.1	34.9	13.7	391	2.96	8.5	7.3	3.4	29	<0.1	0.5	0.1	90	0.59	0.029	14
REP 1239687	QC			1.0	40.6	8.8	43	<0.1	35.4	13.7	405	3.06	8.8	5.0	3.5	30	<0.1	0.6	0.1	89	0.59	0.029	14
1239615	Soil			1.5	69.4	15.5	47	<0.1	54.9	15.3	481	3.00	7.0	2.6	2.4	46	<0.1	0.4	0.1	87	1.03	0.035	12
REP 1239615	QC			0.9	62.8	10.6	40	<0.1	46.7	15.2	465	2.79	6.1	3.0	1.9	43	<0.1	0.3	<0.1	85	0.94	0.030	10
1239626	Soil			0.5	55.7	8.0	38	0.1	31.6	10.6	282	2.30	5.0	5.9	1.9	55	0.1	0.3	0.1	63	0.89	0.046	11
REP 1239626	QC			0.5	59.1	7.8	40	0.1	32.6	11.1	287	2.38	5.7	3.5	2.0	57	<0.1	0.3	0.1	74	0.92	0.048	12
1239575	Soil			1.0	41.8	5.1	47	<0.1	53.8	21.2	404	4.13	6.1	1.6	1.9	18	<0.1	0.4	<0.1	124	0.58	0.019	8
REP 1239575	QC			1.0	42.0	5.1	47	<0.1	55.0	21.3	419	4.23	6.2	0.7	1.8	18	<0.1	0.4	<0.1	129	0.60	0.018	8
Reference Materials																							
STD DS9	Standard			13.3	113.9	125.5	311	1.9	43.4	7.9	598	2.31	25.4	124.7	5.9	62	2.3	5.3	6.0	51	0.72	0.082	12
STD DS9	Standard			14.8	114.8	123.8	323	2.0	42.1	7.7	615	2.47	26.5	122.4	6.4	75	2.5	5.6	6.0	50	0.81	0.087	15
STD DS9	Standard			13.8	113.5	127.1	304	1.8	42.6	7.6	578	2.31	23.8	108.9	6.5	68	2.2	5.4	6.2	44	0.71	0.079	14
STD DS9 Expected				12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	5	<0.01	<0.001	<1
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001	<1
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	7	<0.01	<0.001	<1



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Report Date: July 05, 2012

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sn	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	1	0.2	
Pulp Duplicates																		
1239651	Soil	47	0.73	162	0.087	2	2.10	0.035	0.04	0.1	0.04	9.2	<0.1	<0.05	6	<0.5	2	<0.2
REP 1239651	QC	48	0.75	159	0.093	2	2.18	0.036	0.04	0.2	0.04	9.7	<0.1	<0.05	6	<0.5	1	<0.2
1239676	Soil	100	0.91	202	0.106	1	2.32	0.025	0.04	0.1	0.02	8.1	<0.1	<0.05	6	<0.5	2	<0.2
REP 1239676	QC	96	0.90	202	0.107	1	2.41	0.029	0.05	0.1	0.03	8.0	<0.1	<0.05	7	<0.5	4	<0.2
1239687	Soil	52	0.68	144	0.110	1	1.97	0.034	0.04	0.2	0.02	7.9	<0.1	<0.05	6	<0.5	2	<0.2
REP 1239687	QC	52	0.71	142	0.104	1	1.92	0.034	0.04	0.2	0.03	7.6	<0.1	<0.05	6	<0.5	2	<0.2
1239615	Soil	71	0.89	163	0.098	1	3.32	0.060	0.04	0.1	0.04	7.3	<0.1	0.07	7	<0.5	7	<0.2
REP 1239615	QC	63	0.83	142	0.093	1	2.86	0.062	0.03	0.1	0.03	6.8	<0.1	0.10	7	<0.5	4	<0.2
1239626	Soil	42	0.64	138	0.075	2	2.00	0.046	0.03	0.1	0.03	4.8	<0.1	<0.05	5	<0.5	3	<0.2
REP 1239626	QC	44	0.65	139	0.095	3	2.12	0.048	0.03	0.2	0.04	5.2	<0.1	<0.05	5	<0.5	2	<0.2
1239575	Soil	112	1.19	61	0.140	<1	3.26	0.024	0.03	<0.1	0.01	11.5	<0.1	<0.05	8	<0.5	<1	<0.2
REP 1239575	QC	113	1.23	59	0.144	<1	3.32	0.025	0.03	<0.1	0.02	11.4	<0.1	<0.05	9	<0.5	<1	<0.2
Reference Materials																		
STD DS9	Standard	136	0.62	287	0.121	2	0.92	0.080	0.38	3.2	0.24	2.6	5.3	0.11	5	5.6	6	5.1
STD DS9	Standard	133	0.65	324	0.124	3	1.02	0.098	0.39	3.1	0.22	3.0	5.8	0.07	5	6.1	7	5.2
STD DS9	Standard	126	0.62	298	0.114	2	0.90	0.088	0.35	3.1	0.20	2.8	5.7	0.15	5	5.7	6	5.6
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2		5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<1	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<1	<0.2
BLK	Blank	1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<1	<0.2

Appendix III: Rock Sample Assay Certificates



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Submitted By: Bruce Durham

Receiving Lab: Canada-Whitehorse

Received: June 21, 2012

Report Date: June 29, 2012

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CERTIFICATE OF ANALYSIS

WHI12000147.1

CLIENT JOB INFORMATION

Project: CO
Shipment ID: CORX
P.O. Number
Number of Samples: 13

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

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

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include R200-250, 3B, and 1DX.

ADDITIONAL COMMENTS



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



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CERTIFICATE OF ANALYSIS

WHI12000147.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
1205551	Rock	0.78	<2	<0.1	63.0	0.4	18	<0.1	36.5	14.4	232	2.05	<0.5	<0.1	<0.5	<0.1	28	<0.1	<0.1	<0.1	83
1205552	Rock	0.68	<2	<0.1	13.1	0.4	9	<0.1	27.8	8.6	155	1.07	0.5	<0.1	<0.5	<0.1	27	<0.1	0.1	<0.1	44
1205553	Rock	0.95	<2	<0.1	27.7	0.2	24	<0.1	136.2	23.5	351	2.36	<0.5	<0.1	<0.5	<0.1	36	<0.1	<0.1	<0.1	16
1205554	Rock	0.87	<2	<0.1	49.0	0.1	26	<0.1	58.3	19.8	331	2.32	<0.5	<0.1	<0.5	<0.1	34	<0.1	<0.1	<0.1	40
1205555	Rock	0.64	<2	<0.1	148.7	0.3	49	<0.1	55.9	20.0	317	2.55	<0.5	<0.1	<0.5	<0.1	12	<0.1	0.7	<0.1	80
1206401	Rock	0.55	<2	<0.1	102.3	0.1	16	<0.1	86.7	23.3	245	1.90	<0.5	<0.1	<0.5	<0.1	41	<0.1	<0.1	<0.1	20
1206402	Rock	0.67	<2	<0.1	41.4	2.0	3	<0.1	52.6	5.1	51	0.30	0.7	<0.1	<0.5	<0.1	184	<0.1	<0.1	<0.1	8
1206403	Rock	0.82	<2	<0.1	47.7	0.1	11	<0.1	35.2	9.6	203	0.95	<0.5	<0.1	<0.5	<0.1	54	<0.1	<0.1	<0.1	15
1206404	Rock	0.83	<2	<0.1	100.0	0.9	3	0.1	42.6	8.5	58	0.46	0.7	<0.1	<0.5	<0.1	85	<0.1	<0.1	<0.1	10
1206405	Rock	0.75	<2	<0.1	123.8	0.9	4	<0.1	77.2	13.8	83	0.67	<0.5	<0.1	4.1	<0.1	71	<0.1	0.1	<0.1	12
1206406	Rock	0.73	4	<0.1	88.1	0.5	6	<0.1	16.9	5.3	123	0.68	<0.5	<0.1	1.1	<0.1	53	<0.1	<0.1	<0.1	22
1206407	Rock	0.93	<2	<0.1	67.3	0.1	8	<0.1	33.4	11.2	117	0.99	<0.5	<0.1	<0.5	<0.1	39	<0.1	<0.1	<0.1	21
1206408	Rock	0.89	<2	0.1	29.8	0.1	88	<0.1	42.7	36.5	892	5.38	<0.5	<0.1	<0.5	<0.1	9	<0.1	<0.1	<0.1	101



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Project: CO
 Report Date: June 29, 2012

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CERTIFICATE OF ANALYSIS

WHI12000147.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Sn	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	1	0.2	
1205551	Rock	1.42	0.056	<1	83	0.99	18	0.092	<20	2.10	0.297	0.03	<0.1	<0.01	<0.1	<0.05	4.6	<0.5	5	<1	<0.2
1205552	Rock	1.37	0.007	<1	72	0.76	15	0.091	<20	2.06	0.321	0.03	<0.1	<0.01	<0.1	<0.05	3.7	<0.5	4	<1	<0.2
1205553	Rock	1.97	0.007	<1	43	2.50	18	0.039	<20	4.45	0.336	0.03	<0.1	<0.01	<0.1	<0.05	1.3	<0.5	6	<1	<0.2
1205554	Rock	1.05	0.015	<1	82	1.56	21	0.068	<20	2.83	0.262	0.03	<0.1	<0.01	<0.1	<0.05	3.3	<0.5	5	<1	<0.2
1205555	Rock	0.66	0.005	<1	165	1.70	6	0.171	<20	2.08	0.100	0.02	<0.1	<0.01	<0.1	<0.05	2.9	<0.5	4	<1	<0.2
1206401	Rock	1.62	0.003	<1	36	1.38	28	0.054	<20	3.17	0.408	0.02	<0.1	<0.01	<0.1	<0.05	2.2	<0.5	5	<1	<0.2
1206402	Rock	6.53	0.003	<1	69	0.25	11	0.023	<20	9.70	1.076	0.01	0.5	<0.01	<0.1	<0.05	1.6	<0.5	9	<1	<0.2
1206403	Rock	1.92	0.009	<1	30	0.89	19	0.042	<20	3.30	0.453	0.03	<0.1	<0.01	<0.1	<0.05	1.8	<0.5	4	<1	<0.2
1206404	Rock	7.76	0.002	<1	65	0.31	11	0.019	<20	>10	0.923	0.01	<0.1	<0.01	<0.1	<0.05	1.2	<0.5	10	<1	<0.2
1206405	Rock	3.85	0.004	<1	65	0.41	11	0.038	<20	5.63	0.697	0.01	<0.1	<0.01	<0.1	0.07	2.0	<0.5	7	<1	<0.2
1206406	Rock	2.10	0.002	<1	65	0.65	3	0.057	<20	3.13	0.586	0.01	<0.1	<0.01	<0.1	<0.05	3.2	<0.5	5	<1	<0.2
1206407	Rock	1.67	0.002	<1	26	0.60	28	0.055	<20	2.70	0.447	0.02	<0.1	<0.01	0.1	<0.05	2.5	<0.5	4	<1	<0.2
1206408	Rock	0.76	0.092	3	38	2.15	6	0.197	<20	2.41	0.040	0.03	<0.1	<0.01	<0.1	<0.05	7.1	<0.5	10	<1	<0.2



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QUALITY CONTROL REPORT

WHI12000147.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
Pulp Duplicates																					
1205554	Rock	0.87	<2	<0.1	49.0	0.1	26	<0.1	58.3	19.8	331	2.32	<0.5	<0.1	<0.5	<0.1	34	<0.1	<0.1	<0.1	40
REP 1205554	QC	<2																			
1206407	Rock	0.93	<2	<0.1	67.3	0.1	8	<0.1	33.4	11.2	117	0.99	<0.5	<0.1	<0.5	<0.1	39	<0.1	<0.1	<0.1	21
REP 1206407	QC	<0.1																			
Core Reject Duplicates																					
1206406	Rock	0.73	4	<0.1	88.1	0.5	6	<0.1	16.9	5.3	123	0.68	<0.5	<0.1	1.1	<0.1	53	<0.1	<0.1	<0.1	22
DUP 1206406	QC	2																			
Reference Materials																					
STD DS9	Standard	12.8 114.3 126.2 316 2.0 41.4 7.9 572 2.34 25.8 2.6 108.5 5.8 63 2.4 4.6 5.1 38																			
STD OREAS45CA	Standard	1.0 528.8 20.8 60 0.3 264.9 98.8 983 16.59 3.5 1.3 41.0 7.6 16 <0.1 <0.1 0.2 225																			
STD OXC88	Standard	187																			
STD OXG99	Standard	918																			
STD OXC88 Expected		203																			
STD OXG99 Expected		932																			
STD OREAS45CA Expected		1 494 20 60 0.275 240 92 943 15.69 3.8 1.2 43 7 15 0.1 0.13 0.19 215																			
STD DS9 Expected		12.84 108 126 317 1.83 40.3 7.6 575 2.33 25.5 2.69 118 6.38 69.6 2.4 4.94 6.32 40																			
BLK	Blank	3																			
BLK	Blank	<2																			
BLK	Blank	<0.1 <0.1 <0.1 <1 <0.1 0.1 <0.1 <1 0.01 <0.5 <0.1 <0.5 <0.1 <1 <0.1 <0.1 <0.1 <0.1 <2																			
Prep Wash																					
G1-WHI	Prep Blank	<2 0.2 2.8 3.5 49 <0.1 3.2 4.5 600 2.01 <0.5 1.8 <0.5 6.2 62 <0.1 <0.1 <0.1 38																			
G1-WHI	Prep Blank	<2 <0.1 1.8 2.8 49 <0.1 1.8 3.8 558 1.91 <0.5 1.5 <0.5 5.8 62 <0.1 0.3 <0.1 35																			



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Report Date: June 29, 2012

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QUALITY CONTROL REPORT

WHI12000147.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Sn	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	1	0.2	
Pulp Duplicates																					
1205554	Rock	1.05	0.015	<1	82	1.56	21	0.068	<20	2.83	0.262	0.03	<0.1	<0.01	<0.1	<0.05	3.3	<0.5	5	<1	<0.2
REP 1205554	QC																				
1206407	Rock	1.67	0.002	<1	26	0.60	28	0.055	<20	2.70	0.447	0.02	<0.1	<0.01	0.1	<0.05	2.5	<0.5	4	<1	<0.2
REP 1206407	QC	1.62	0.002	<1	25	0.58	26	0.054	<20	2.61	0.440	0.02	<0.1	<0.01	<0.1	<0.05	2.2	<0.5	4	<1	<0.2
Core Reject Duplicates																					
1206406	Rock	2.10	0.002	<1	65	0.65	3	0.057	<20	3.13	0.586	0.01	<0.1	<0.01	<0.1	<0.05	3.2	<0.5	5	<1	<0.2
DUP 1206406	QC	2.01	0.002	<1	65	0.62	2	0.058	<20	3.11	0.550	0.01	<0.1	<0.01	<0.1	<0.05	3.2	<0.5	4	<1	<0.2
Reference Materials																					
STD DS9	Standard	0.69	0.081	11	121	0.63	330	0.105	<20	0.95	0.076	0.40	2.9	0.20	5.5	0.16	2.0	5.9	5	6	5.3
STD OREAS45CA	Standard	0.45	0.041	16	814	0.15	175	0.146	<20	3.86	0.009	0.07	<0.1	0.03	0.1	<0.05	46.9	<0.5	19	2	<0.2
STD OXC88	Standard																				
STD OXG99	Standard																				
STD OXC88 Expected																					
STD OXG99 Expected																					
STD OREAS45CA Expected		0.4265	0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	0.07	0.021	39.7	0.5	18.4		
STD DS9 Expected		0.7201	0.0819	13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	5.3	0.1615	2.5	5.2	4.59		5.02
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<1	<0.2
Prep Wash																					
G1-WHI	Prep Blank	0.54	0.079	13	11	0.56	181	0.143	<20	1.00	0.094	0.51	<0.1	<0.01	0.4	<0.05	2.2	<0.5	5	<1	<0.2
G1-WHI	Prep Blank	0.48	0.071	13	7	0.48	146	0.129	<20	0.94	0.092	0.46	<0.1	<0.01	0.3	<0.05	2.1	<0.5	5	<1	<0.2