

ASSESSMENT REPORT

2011 GEOCHEMICAL PROGRAM

on the

Aces Property

Dawson Mining District, Yukon Territory

for

Goldspike Exploration Inc.

Claims filed for: 'Aces' 1-62 (YD47001 – YD47062)

NTS Mapsheet: 116C08

UTM Coordinates: E539000, N7126500 (NAD83, Zone 7)

Owner: Goldspike Exploration Inc.

Author: D. Ferraro, HBSc.

Dates worked performed: September 25th, 2011

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1.0 SUMMARY

A 1 day geochemical sampling program was conducted on the Aces Property on September 25th, 2011. The Property is located in the Dawson Mining District, Yukon Territory, Canada, approximately 44 kilometres northwest of Dawson City and is comprised of 62 Quartz Mining Claims (1296 hectares). The claims are owned 100% by Goldspike Exploration Inc. of Toronto, Ontario. Road access to the property is limited; with the southern portion of the property being accessible by ATV and access to the northern portion is best gained utilizing helicopter. During this program the property was accessed by truck and foot.

The property is in an unglaciated area and is characterized by thick mantling of till resulting in rounded ridge tops and steep V-shaped stream valleys associated with a well-developed dendritic stream pattern. The claim group covers a tributary of Cassiar Creek which, in turn, spills into the Yukon River. The claims were staked to cover the potential source of a 99th percentile gold in silt anomaly of 1050 parts per billion gold. The sample, taken a short distance up the Cassiar Creek tributary, was part of a regional survey by the Geological Survey of Canada.

The ACES Prospect is situated within the portion of the Tintina Gold province underlain by the Yukon-Tanana terrane. The underlying rocks are predominantly graphitic schists, quartzite and marble of the 400-320 million year old Finlayson (Nasina) assemblage. Ultramafic intrusions are found immediately north of the property. No records of previous work have been found for the area covered by the current claim group, but there are indications it may have been explored by the Eureka Joint Venture in 1999-2000.

The property is situated in close proximity to the Fortymile Creek district, a historic and current gold producing area. From 1966 to 1978, asbestos was produced from ultramafic intrusions at the Clinton Creek mine situated 2.5 kilometres north of the current claim group. Presently, Kaminak Gold Corp. has identified a number of gold zones within a similar package of metasediments at their Coffee Gold Project located approximately 130 kilometres south of Dawson.

The purpose of the program was to cover areas that a one-day program May, 2011 missed due to frozen ground conditions. A total of 59 soil samples, 3 silt samples and 5 rock samples were taken over the duration of the program. Assays did not return any notable results. One soil sample yielded 26.1 ppb Au. A breccia unit was found on the property which is of note.

After two short programs, the source of the gold found in the GSC silt sample (1050ppb Au) has not been found. However, there are multiple tributaries feeding the creek where the sample was taken. A one day soil sampling program is recommended on the southwest area of the property.

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 2011 geochemical and prospecting program on the Aces 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 Aces Prospect is situated within the Cassiar area of the Dawson Mining District in the west-central Yukon. The claim group is situated approximately 44 kilometres northwest Dawson City, a community of approximately 1900 inhabitants.

Access to the property is best gained using helicopter out of Dawson. The Top of the World Highway passes approximately 1.4 kilometres south of the claim group and the access road to the former Clinton Creek townsite passes approximately six kilometres west of the claim group. There are no other roads that would provide access to the claim group.

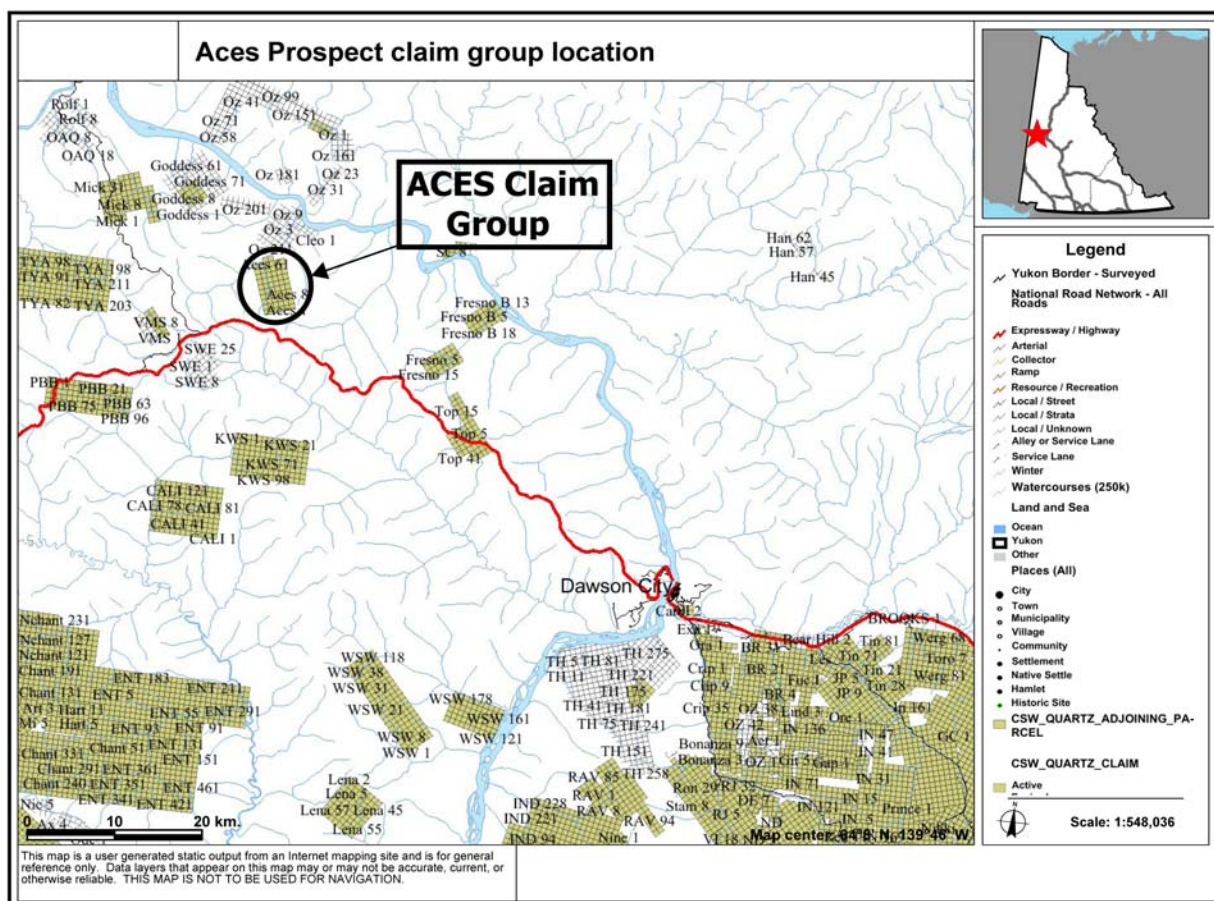


Figure 1: ACES Prospect claim group location map

4.0 TOPOGRAPHY, VEGETATION, AND CLIMATE

The Aces Property is within an area of subarctic or boreal climate characterized by discontinuous permafrost, hot and humid, short summers, and extremely cold, long winters. The daily mean temperature ranges from -27°C in January to +16°C in July. The average temperature ranges from a low of -31° in January to a high of +23° in July. The average total annual precipitation is 324 mm.

The area is unglaciated resulting in a thick cover of soil and weathered bedrock, and as a consequence is characterized by generally rounded ridges (Photo 1). Dendritic stream patterns are well developed with tributaries occupying narrow V-shaped valleys and generally having steep gradients. Elevations on the property range from a high of approximately 1130 metres above sea level (m.a.s.l.) in the southeast corner of the property to a low of approximately 425 m.a.s.l. in the northwest part of the property at the point where the stream transecting the property enters Cassiar Creek, a tributary of the Yukon River.

Vegetation is limited to sparse and stunted evergreens on the sides of the ridges with the tops of the ridges essentially barren. Mixed evergreen and deciduous trees are found in the bottom of the stream valleys.



Photo 1: Physiography of the Aces Property.

5.0 PROPERTY DESCRIPTION

The Aces Property consists of 62 contiguous quartz claims in the Dawson Mining District. The 62 'Aces' claims can be found on NTS mapsheet 116C01 (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 Aces Property is as follows:

Table 1: Claims comprising the Aces Property.

Claim Name	Claim No.	Grant Number	District	Claim Owner (100%)	Status	NTS Map Number	Claim Expiry Date
Aces	1	YD47001	Dawson	Goldspike Exploration Inc.	Active	116C01	17/05/2013
Aces	2	YD47002	Dawson	Goldspike Exploration Inc.	Active	116C01	17/05/2013
Aces	3	YD47003	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	4	YD47004	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	5	YD47005	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	6	YD47006	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	7	YD47007	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	8	YD47008	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	9	YD47009	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	10	YD47010	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	11	YD47011	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	12	YD47012	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	13	YD47013	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	14	YD47014	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	15	YD47015	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	16	YD47016	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	17	YD47017	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	18	YD47018	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	19	YD47019	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	20	YD47020	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	21	YD47021	Dawson	Goldspike Exploration Inc.	Active	116C01	17/05/2013
Aces	22	YD47022	Dawson	Goldspike Exploration Inc.	Active	116C01	17/05/2013
Aces	23	YD47023	Dawson	Goldspike Exploration Inc.	Active	116C01	17/05/2013
Aces	24	YD47024	Dawson	Goldspike Exploration Inc.	Active	116C01	17/05/2013
Aces	25	YD47025	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	26	YD47026	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	27	YD47027	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	28	YD47028	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	29	YD47029	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	30	YD47030	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	31	YD47031	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	32	YD47032	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	33	YD47033	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	34	YD47034	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	35	YD47035	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	36	YD47036	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013

Aces	37	YD47037	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	38	YD47038	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	39	YD47039	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	40	YD47040	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	41	YD47041	Dawson	Goldspike Exploration Inc.	Active	116C01	17/05/2013
Aces	42	YD47042	Dawson	Goldspike Exploration Inc.	Active	116C01	17/05/2013
Aces	43	YD47043	Dawson	Goldspike Exploration Inc.	Active	116C01	17/05/2013
Aces	44	YD47044	Dawson	Goldspike Exploration Inc.	Active	116C01	17/05/2013
Aces	45	YD47045	Dawson	Goldspike Exploration Inc.	Active	116C01	17/05/2013
Aces	46	YD47046	Dawson	Goldspike Exploration Inc.	Active	116C01	17/05/2013
Aces	47	YD47047	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	48	YD47048	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	49	YD47049	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	50	YD47050	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	51	YD47051	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	52	YD47052	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	53	YD47053	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	54	YD47054	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	55	YD47055	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
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Aces	58	YD47058	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	59	YD47059	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	60	YD47060	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	61	YD47061	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013
Aces	62	YD47062	Dawson	Goldspike Exploration Inc.	Active	116C08	17/05/2013

Aces Property

Fig. 2: Claim Location Map

Goldspike Exploration Inc.

Cassiar Creek area,
Dawson Mining District

Legend

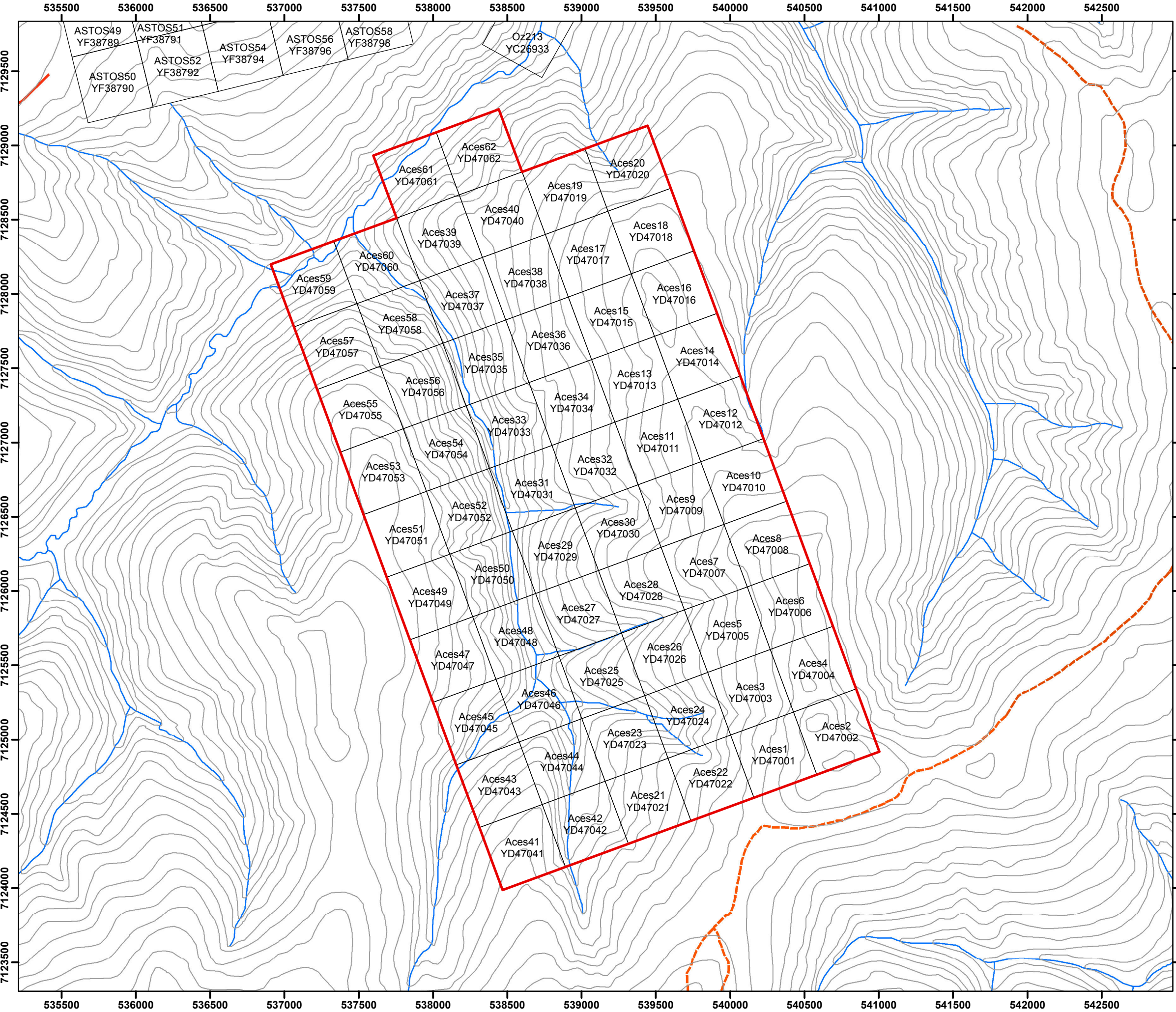
-  Aces Property
-  Yukon quartz claims



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Author: Dan Ferraro
NTS Mapsheets: 116C08, 116C01
Datum: UTM NAD83, Zone 7



6.0 PROPERTY HISTORY

The current claim area was included in a 1976-1977 regional geochemical survey by the Geological Survey of Canada, the samples from which were re-analyzed and the results released as an open file report (Friske et al, (1991).

Mapping by Mortensen (1988) for the Geological Survey of Canada resulted in a 1:250 000 scale geology map for the Southwest Dawson Area.

No records have been found to indicate any previous hard rock exploration or placer activity has occurred on the current claim area.

In 1999-2001, the Eureka Joint Venture comprised of Nordak Resources Limited (50%) and Expatriate Resources Limited (50%) indicated a property, the TOP claim group, on their maps. The location of this property appeared to be in approximately the same area as the current ACES prospect. No records were found to indicate any assessment work had been conducted on the property.

A short, 1 day work program was conducted by Goldspike Exploration in May, 2011 with no significant results (Mac Gearailt, 2011).

7.0 GEOLOGY

7.1 Regional Geology

The Aces Prospect is located within the Tintina Gold province which is, in part, underlain by the Yukon-Tanana terrane (YTT), an accreted, pericratonic, lithological sequence that forms part of the Omineca Belt (Hart). The YTT is bounded by the dextral Tintina fault along the northeast and the dextral Denali fault along the southwest and is comprised of several metamorphic assemblages (Figure 3).

The Aces property is situated in a region underlain by metasediments of the 400-320 million year old Nasina subterrane of the Yukon-Tanana terrane. Local lithologies are predominantly graphitic quartz-muscovite-chlorite schist, quartzite and garnet quartzite with lesser marble (Figure 4). These units were later intruded by post-accretion, Cretaceous granitic plutons.

Ultramafic intrusives (dunite, peridotite, harzburgite, diabase and serpentinite) have intruded the Finlayson metasediments in close proximity to the north boundary of the ACES claim group. According to Htoon (1979) it is suggested that the ultramafic bodies that hosted the past producing Clinton Creek asbestos mine located 2.5 kilometres to the north, were emplaced

about the time of main metamorphic event during the Permian period and along a zone of weakness associated with the Tintina fault.

Structurally the area of the ACES prospect is in the upper plate of a northeasterly-directed thrust fault. A northeast-trending tear fault with 11 km left lateral displacement cuts through the north part of the property and is occupied by Cassiar Creek.

7.2 Mineralization

The ACES Prospect is located only 7 km east of an active placer mining area in the well known Fortymile River district. Placer gold was discovered in the Fortymile area in 1886, and has been produced continuously since that time.

From 1966 to 1978, approximately 940,000 tonnes of asbestos fiber was produced from approximately 16 million tonnes of ore at the Clinton Creek mine located 2.5 kilometres north of the ACES prospect.

In a similar metasedimentary package to that found on the ACES property, Kaminak Gold Corp. have identified a number of gold zones on their Coffee Gold Project located approximately 130 kilometres south of Dawson. The gold zones include pyritic hydrothermal quartz breccias over narrow widths and pervasive pyritic hydrothermal quartz over broader widths (Kaminak Gold Corp., 2011).

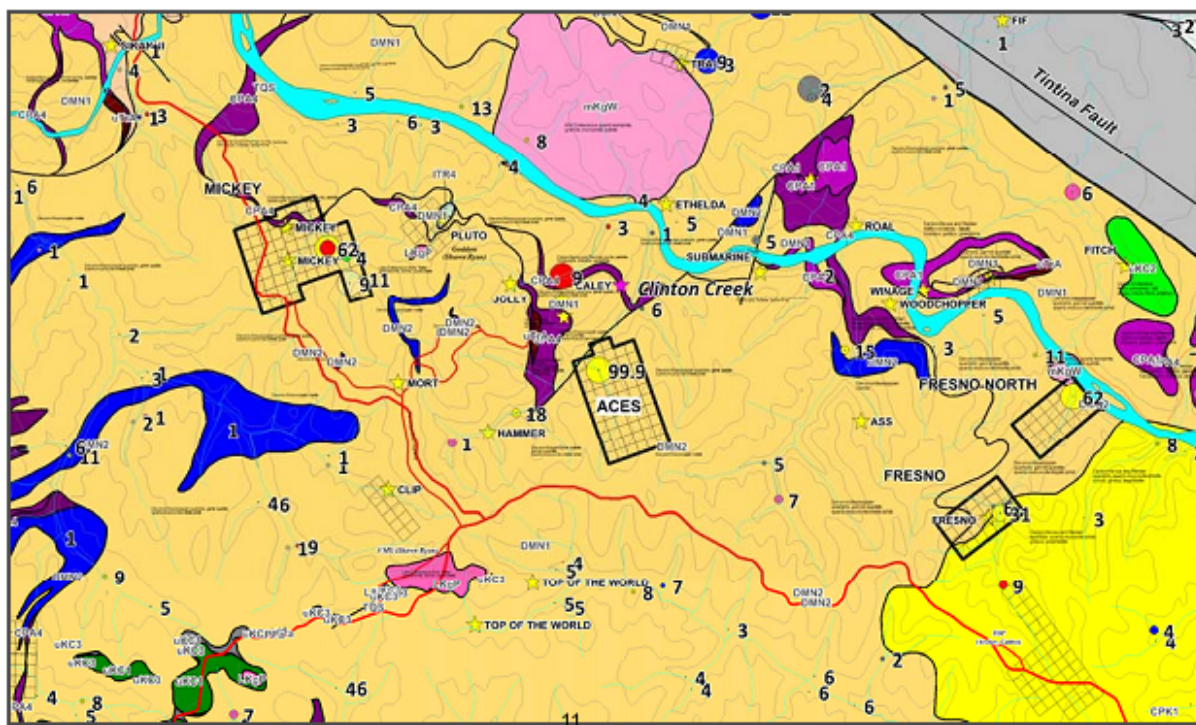
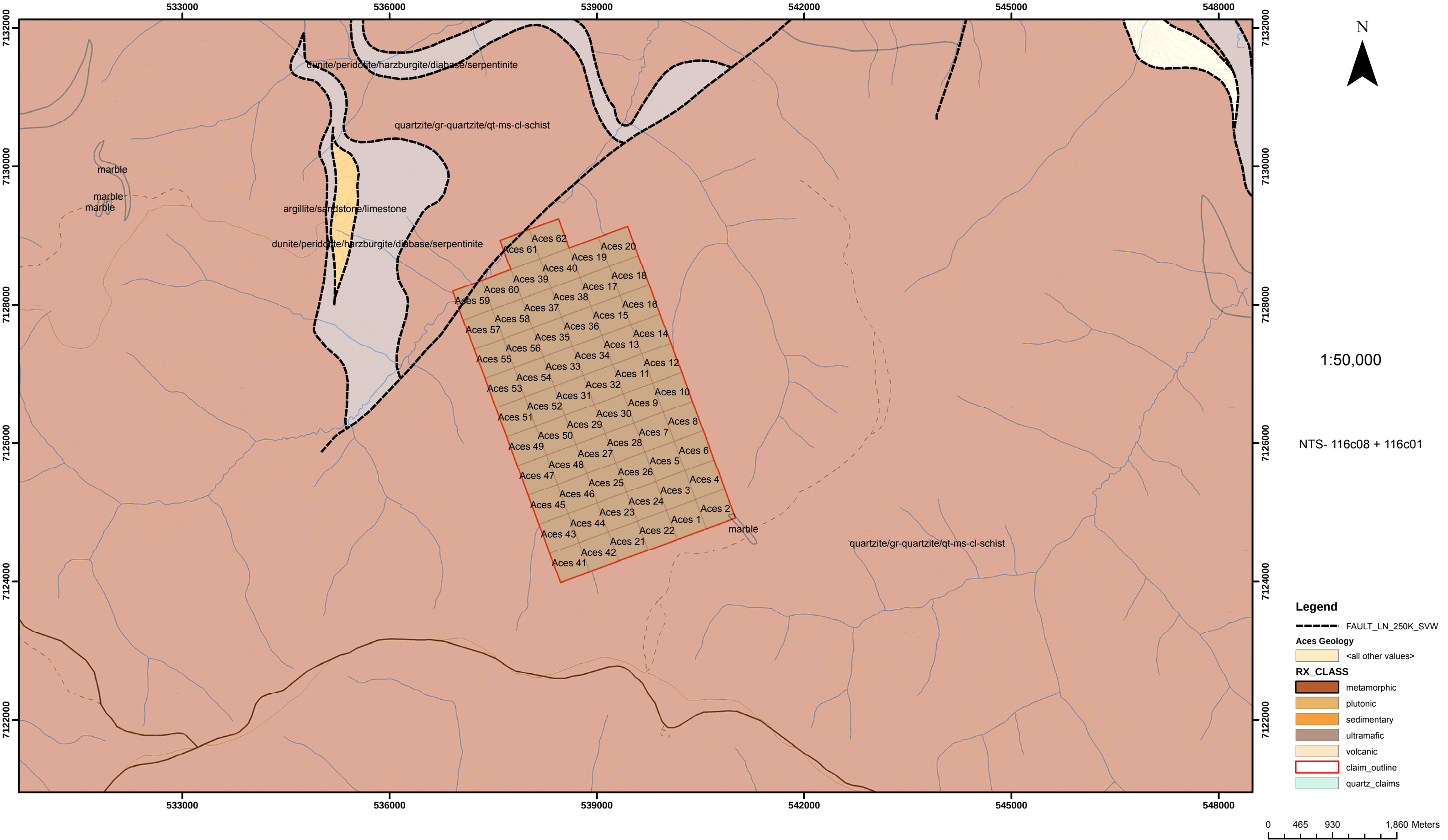


Figure 3: Regional geological setting of the Aces Property.

Figure 4. Aces Property Geology



8.0 2011 WORK PROGRAM

8.1 Sampling Method and Approach

A 1 day geochemical sampling program was conducted on the Aces Property on September 25th, 2011. Driving out of Dawson City, a crew of 5 samplers and one geologist collected 59 soil samples, 3 silt samples and 5 rock samples (see Figure 5 for sample locations).

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.

Silt samples were taken in major creeks and tributaries. A low energy zone of the stream was located and a collapsible shovel, pan, or hand was used to collect a sample. Sample locations were marked with a GPS unit and flagged with the sample number. Sample conditions, environment and attributes were recorded in a field notebook.

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. All 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

The soil sampling program conducted on the Aces Property yielded few geochemical gold anomalies (Figure 6). Four of the 59 samples taken assayed over 10 ppb Au, the highest being 26.1 ppb Au. No other elements showed anomalous values. The 3 silt samples showed no notable results.

Five rock samples were taken from the property. No sample showed anomalous assay results. However, the breccia found on the property is of note, as it looks to be a hydrothermal breccia, which would indicate increased hydrothermal activity in the area, and a greater potential for mineralization.

Aces Property

Fig. 5: Sample Location Map

Goldspike Exploration Inc.

Cassiar Creek area,
Dawson Mining District

Legend

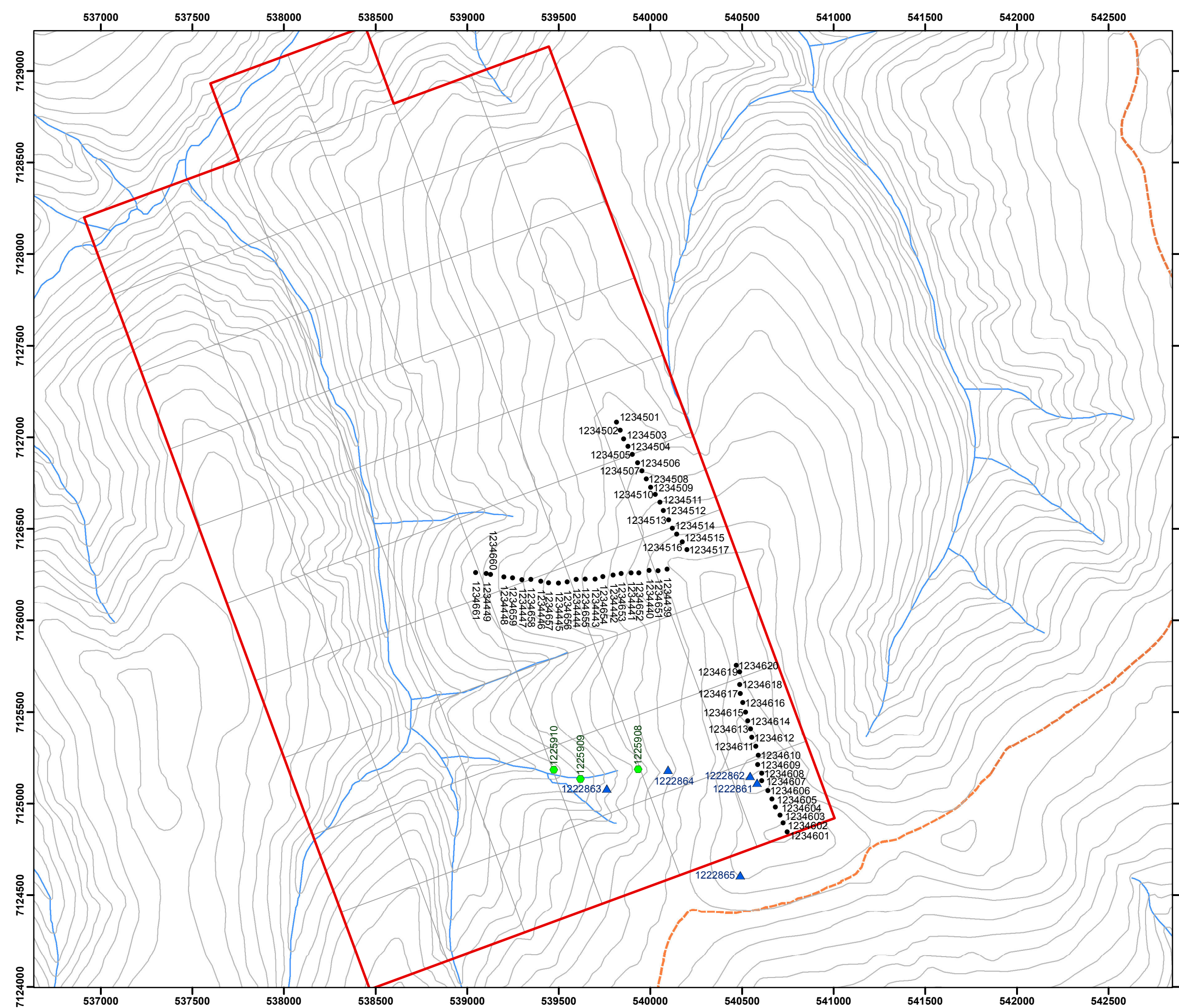
- Soil samples
- Silt samples
- ▲ Rock samples
- Aces Property
- Yukon quartz claims

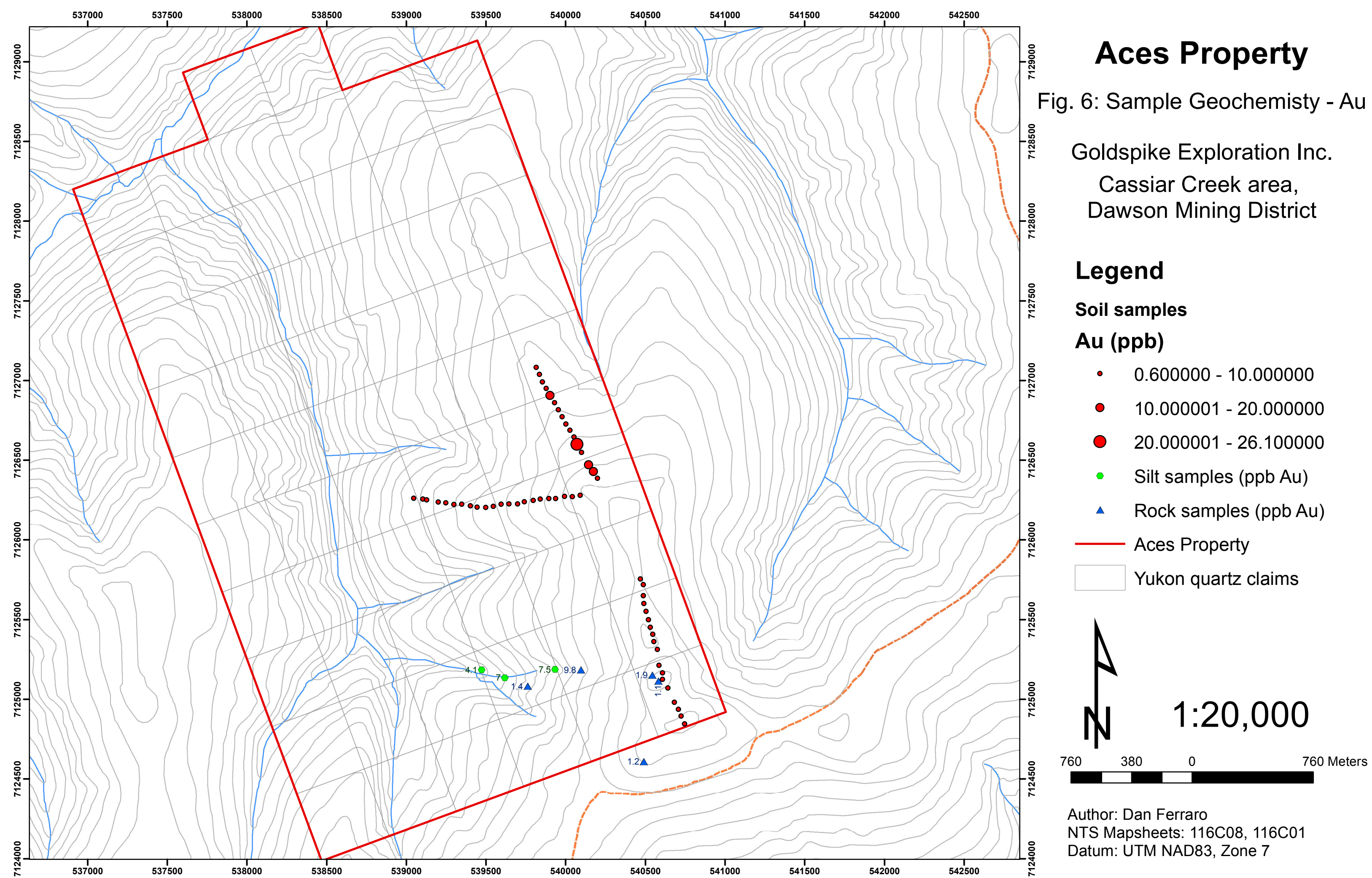


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Author: Dan Ferraro
NTS Mapsheets: 116C08, 116C01
Datum: UTM NAD83, Zone 7





9.0 CONCLUSIONS AND RECOMMENDATIONS

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

The purpose of the program was to cover areas that the one-day program in May, 2011 missed due to frozen ground conditions. After two short programs, the source of the gold found in the government survey silt sample (1050ppb Au) has not been found. Samples taken during the two programs have shown very few anomalous values.

However, there are multiple tributaries feeding the creek where the GSC sample was taken. The south and southwest of the property has tributaries where no soil sampling has been conducted. Since this area of the property is easily accessed by truck and walking, a one day soil sampling program with a small crew would cover it.

REFERENCES

- Friske, P.W.B., Hronbrook, E.H.W., Lynch, J.J., McCurdy, M.W., Gross, H., Galletta, A.C. and Durham, C.C. (1991): National Geochemical Reconnaissance Stream Sediment and Water Data, West Central Yukon, (NTS 116B, parts of 116C, 116F and 116G). Geological Survey of Canada, Open File 2365.
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- Htoon, Myat (1979): Geology of the Clinton Creek asbestos deposit, Yukon Territory. MSc thesis, Geological Science, University of British Columbia.
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- Mortensen, J.K., (1988): Geology of southwestern Dawson map area, Yukon Territory. Geological Survey of Canada, Open File 1927.

STATEMENT OF EXPENDITURES

Aces Property

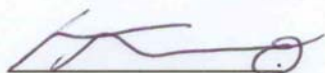
Costs for work performed September 25th, 2011

	Amount	\$/DAY	DAYS		TOTAL
GEO	1	\$ 450.00	2		\$ 900.00
FIELD HAND / SAMPLER	5	\$ 350.00	1		\$ 1,750.00
TRUCK RENTAL	2	\$ 125.00	2		\$ 500.00
FUEL	1	\$ 220.00	1		\$ 220.00
SOIL SAMPLES	59	\$ 18.00	1		\$ 1,062.00
SILT SAMPLES	3	\$ 18.00	1		\$ 54.00
ROCK SAMPLES	5	\$ 24.00	1		\$ 120.00
HOTEL + ACCOMODATION	6	\$ 140.00	1		\$ 840.00
FOOD, \$45/man	6	\$ 45.00	2		\$ 540.00
REPORT	1	\$ 3,000.00	1		\$ 3,000.00
				TOTAL	\$ 8,986.00

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: Oct. 1, 2012.

Appendix I: Sample Descriptions

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
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1234501	539816	7127081	973	25-Sep-11	ACE	55	b/c	dark brown		15				85	weathered bedrock	moist	evergreen	mid slope
1234502	539837	7127037	974	25-Sep-11	ACE	50	b/c	dark brown		10				90	weathered bedrock	moist	evergreen	mid slope
1234503	539855	7126990	976	25-Sep-11	ACE	60	b/c	dark grey		15				85	weathered bedrock	moist	evergreen	mid slope
1234504	539878	7126950	976	25-Sep-11	ACE	60	b/c	light brown		10				90	weathered bedrock	moist	evergreen	mid slope
1234505	539903	7126905	978	25-Sep-11	ACE	70	c	dark grey		5				95	weathered bedrock	moist	evergreen	mid slope
1234506	539931	7126860	982	25-Sep-11	ACE	50	b/c	dark brown		15				85	weathered bedrock	moist	evergreen	mid slope
1234507	539954	7126816	986	25-Sep-11	ACE	50	b/c	dark brown		10				90	weathered bedrock	moist	evergreen	mid slope
1234508	539978	7126771	993	25-Sep-11	ACE	60	b/c	dark brown		10				90	weathered bedrock	moist	evergreen	mid slope
1234509	540003	7126726	1003	25-Sep-11	ACE	60	b/c	dark brown		15				85	weathered bedrock	moist	evergreen	mid slope
1234510	540028	7126686	1006	25-Sep-11	ACE	50	b/c	dark brown		10				90	weathered bedrock	moist	evergreen	mid slope
1234511	540053	7126644	1011	25-Sep-11	ACE	70	b/c	dark brown		15				85	weathered bedrock	moist	evergreen	mid slope
1234512	540071	7126600	1017	25-Sep-11	ACE	80	c	dark grey		15				85	weathered bedrock	moist	evergreen	mid slope
1234513	540100	7126548	1022	25-Sep-11	ACE	80	c	dark grey		15				85	weathered bedrock	moist	evergreen	mid slope
1234514	540121	7126502	1033	25-Sep-11	ACE	70	b/c	dark grey		15				85	weathered bedrock	moist	evergreen	mid slope
1234515	540144	7126471	1038	25-Sep-11	ACE	70	b/c	dark grey		15				85	weathered bedrock	moist	evergreen	mid slope
1234516	540175	7126427	1047	25-Sep-11	ACE	50	b/c	dark grey		20				80	weathered bedrock	moist	buck brush	mid slope
1234517	540199	7126385	1069	25-Sep-11	ACE	50	b/c	dark grey		25				75	weathered bedrock	moist	buck brush	mid slope
1234439	540092	7126278	1026	25-Sep-11	ACE	40-50	c	dark grey	30					70	weathered bedrock	moist	evergreen	mid slope
1234440	539994	7126272	1073	25-Sep-11	ACE	40-50	c	light grey	5	15				80	weathered bedrock	moist	evergreen	mid slope
1234441	539895	7126259	1085	25-Sep-11	ACE	30-40	c	light brown	5	10				85	weathered bedrock	moist	evergreen	mid slope
1234442	539798	7126247	1078	25-Sep-11	ACE	30-40	c	greenish grey		10				90	weathered bedrock	moist	evergreen	mid slope
1234443	539698	7126224	1064	25-Sep-11	ACE	40-50	c	light brown	5	10				85	weathered bedrock	moist	evergreen	mid slope
1234444	539595	7126222	1013	25-Sep-11	ACE	30-40	c	light grey	5	5				90	weathered bedrock	moist	evergreen	mid slope
1234445	539500	7126203	1020	25-Sep-11	ACE	30-40	c	light grey		10				90	weathered bedrock	moist	evergreen	mid slope
1234446	539402	7126213	1018	25-Sep-11	ACE	30-40	c	light grey	5	15				80	weathered bedrock	moist	evergreen	mid slope
1234447	539300	7126222	973	25-Sep-11	ACE	50-60	c	dark brown	60					40	weathered bedrock	moist	evergreen	mid slope
1234448	539201	7126237	944	25-Sep-11	ACE	60-70	c	light grey		5				95	weathered bedrock	moist	evergreen	mid slope
1234449	539105	7126255	906	25-Sep-11	ACE	30-40	c	light grey	10	10		60		20	weathered bedrock	moist	evergreen	mid slope
1234601	540748	7124844	1177	25-Sep-11	ACE	50-60	c	light grey			60			40	weathered bedrock	dry	buck brush	ridge top
1234602	540725	7124893	1174	25-Sep-11	ACE	40-50	c	dark grey			60			40	weathered bedrock	dry	buck brush	ridge top
1234603	540709	7124936	1166	25-Sep-11	ACE	40-50	c	dark grey			60			40	weathered bedrock	dry	buck brush	ridge top
1234604	540683	7124979	1160	25-Sep-11	ACE	30-40	c	light brown			60			40	weathered bedrock	dry	buck brush	ridge top
1234605	540665	7125023	1160	25-Sep-11	ACE	40-50	c	light brown			60			40	weathered bedrock	dry	buck brush	ridge top
1234606	540642	7125070	1163	25-Sep-11	ACE	40-50	c	light grey			60			40	weathered bedrock	dry	buck brush	ridge top
1234607	540608	7125124	1175	25-Sep-11	ACE	30-40	c	light brown			60			40	weathered bedrock	dry	buck brush	ridge top
1234608	540608	7125164	1174	25-Sep-11	ACE	40-50	c	light brown			60			40	weathered bedrock	dry	buck brush	ridge top
1234609	540586	7125212	1153	25-Sep-11	ACE	30-40	c	light brown			60			40	weathered bedrock	dry	buck brush	ridge top
1234610	540590	7125263	1135	25-Sep-11	ACE	40-50	c	dark grey			60			40	weathered bedrock	dry	buck brush	ridge top
1234611	540576	7125311	1129	25-Sep-11	ACE	30-40	c	light brown			60			40	weathered bedrock	dry	buck brush	ridge top
1234612	540555	7125361	1141	25-Sep-11	ACE	30-40	c	light brown			60			40	weathered bedrock	dry	buck brush	ridge top
1234613	540547	7125406	1140	25-Sep-11	ACE	40-50	c	light brown			60			40	weathered bedrock	dry	buck brush	ridge top
1234614	540533	7125450	1136	25-Sep-11	ACE	50-60	c	light brown			60			40	weathered bedrock	dry	buck brush	ridge top
1234615	540520	7125498	1131	25-Sep-11	ACE	40-50	c	light brown			60			40	weathered bedrock	dry	evergreen	ridge top
1234616	540505	7125550	1124	25-Sep-11	ACE	40-50	c	light brown			60			40	weathered bedrock	dry	buck brush	ridge top
1234617	540492	7125599	1118	25-Sep-11	ACE	40-50	c	light brown		60				40	weathered bedrock	dry	buck brush	ridge top
1234618	540489	7125649	1118	25-Sep-11	ACE	40-50	c	light brown			60			40	weathered bedrock	dry	buck brush	ridge top
1234619	540489	7125719	1112	25-Sep-11	ACE	40-50	c	light brown			60			40	weathered bedrock	dry	buck brush	ridge top
1234620	540469	7125754	1109	25-Sep-11	ACE	40-50	c	dark grey			60			40	weathered bedrock	dry	buck brush	ridge top
1234651	540042	7126270		25-Sep-11	ACE	40-50	c	light brown		20				80	weathered bedrock	moist	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
									Organics	Ang. Rock	Gravel	Sand	Silt	Clay				
1234652	539938	7126259		25-Sep-11	ACE	30-40	c	dark grey		35				65	weathered bedrock	moist	buck brush	mid slope
1234653	539842	7126255		25-Sep-11	ACE	40-50	c	dark grey		25				75	weathered bedrock	moist	buck brush	mid slope
1234654	539742	7126238		25-Sep-11	ACE	50-60	c	dark grey		10				90	weathered bedrock	moist	buck brush	mid slope
1234655	539644	7126224		25-Sep-11	ACE	50-60	c	light brown		5			10	85	weathered bedrock	moist	buck brush	mid slope
1234656	539546	7126209		25-Sep-11	ACE	20-30	a/b	dark brown	70					30	talus	moist	buck brush	mid slope
1234657	539445	7126205		25-Sep-11	ACE	50-60	c	light grey						100	weathered bedrock	moist	buck brush	mid slope
1234658	539348	7126223		25-Sep-11	ACE	40-50	c	light grey		10				90	weathered bedrock	moist	evergreen	mid slope
1234659	539248	7126231		25-Sep-11	ACE	30-40	c	light grey	5	5				90	weathered bedrock	moist	evergreen	mid slope
1234660	539129	7126250		25-Sep-11	ACE	60-70	c	dark grey	20	15				65	weathered bedrock	wet	evergreen	mid slope
1234661	539047	7126260		25-Sep-11	ACE	40-50	c	light brown					10	90	weathered bedrock	moist	evergreen	mid slope

SILT SAMPLES

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Sample Environment	Medium	Medium depth (m)	Medium width (m)	Bank type	Water colour
1225908	539932	7125188	922	25-Sep-11	ACE	low energy	creek	0.2	0.4	grassy, trees	clear
1225909	539618	7125136	795	25-Sep-11	ACE	N/A	dry creek	0	0	grassy	N/A
1225910	539472	7125185	753	25-Sep-11	ACE	low energy	creek	0.2	0.6	grassy, trees	clear

ROCK SAMPLES

Sample ID	Easting	Northing	Elevation (m)	Date Taken	Property	Description
1222861	540580.8	7125116.119	1175	25-Sep-11	ACE	Breccia. 0.2cm-2.5cm semi-angular to angular clasts of cherty metased with a fine grained quartzitic groundmass.
1222862	540544.04	7125152.273	1159	25-Sep-11	ACE	Breccia. 0.2cm-1.5cm semi-angular to angular clasts of cherty metased with a fine grained quartzitic groundmass.
1222863	539761.66	7125082.56	882	25-Sep-11	ACE	Black phyllite metaseds, foliated, qtz stockwork, rusty remnant sulfides.
1222864	540094.84	7125184.447	993	25-Sep-11	ACE	Black phyllite metaseds, foliated, qtz stockwork, rusty remnant sulfides.
1222865	540490.46	7124609.808	1125	25-Sep-11	ACE	Metasedimentary talus, veinlets of qtz stockwork, rusty remnant sulfide grains.

Appendix II: Soil and Silt Sample Assay Certificates



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Goldspike Exploration Inc.

56th Floor - 100 King Street West
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Submitted By: Bruce Durham

Receiving Lab: Canada-Whitehorse

Received: October 13, 2011

Report Date: December 05, 2011

Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI11001890.1

CLIENT JOB INFORMATION

Project: ACE
Shipment ID: ACESoilsOct2011
P.O. Number
Number of Samples: 62

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

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

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

CC: Daniel Ferraro

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	62	Dry at 60C			WHI
SS80	62	Dry at 60C sieve 100g to -80 mesh			WHI
RJSV	62	Saving all or part of Soil Reject			WHI
1DX2	60	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

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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Project: ACE
Report Date: December 05, 2011

Page: 2 of 4 **Part** 1

CERTIFICATE OF ANALYSIS

WHI11001890.1

	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	%	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
1234501	Soil	1.6	48.2	10.3	99	0.1	96.4	21.8	440	4.86	8.7	5.2	4.8	34	0.2	0.7	0.3	95	0.50	0.143	24
1234502	Soil	1.0	19.0	10.9	52	<0.1	21.7	10.8	379	3.17	9.7	3.5	3.5	17	0.1	0.6	0.2	65	0.15	0.040	16
1234503	Soil	0.5	48.4	10.9	96	<0.1	47.2	14.7	816	2.73	4.2	1.1	7.0	18	0.3	0.7	0.2	42	0.23	0.048	29
1234504	Soil	0.6	24.8	14.5	62	<0.1	23.9	11.4	359	3.17	6.5	4.7	10.4	18	<0.1	0.5	0.3	43	0.16	0.038	39
1234505	Soil	0.8	52.9	20.8	144	<0.1	42.1	16.4	540	3.90	5.1	15.9	15.0	25	0.2	0.4	0.3	55	0.26	0.067	56
1234506	Soil	0.9	26.6	9.0	48	<0.1	22.2	8.0	352	2.36	7.1	4.0	4.6	18	<0.1	0.4	0.2	45	0.18	0.041	20
1234507	Soil	0.7	21.1	10.3	61	<0.1	25.1	8.0	272	2.39	6.5	4.5	4.6	20	<0.1	0.4	0.2	45	0.24	0.045	23
1234508	Soil	1.0	30.6	10.3	75	<0.1	32.4	11.0	442	2.71	9.0	9.9	4.4	24	0.1	0.6	0.2	52	0.29	0.062	23
1234509	Soil	0.9	28.8	9.0	63	<0.1	27.5	9.5	505	2.60	8.3	3.8	3.4	24	<0.1	0.6	0.2	51	0.32	0.084	21
1234510	Soil	0.8	24.2	9.8	64	0.2	23.4	9.1	365	2.51	6.4	3.3	3.2	20	<0.1	0.4	0.2	45	0.24	0.056	22
1234511	Soil	0.6	44.2	10.5	109	0.1	38.6	16.1	761	3.50	3.4	4.0	12.0	19	0.4	0.4	0.2	36	0.24	0.067	50
1234512	Soil	0.7	30.9	10.0	78	0.2	29.7	8.3	268	2.55	5.6	26.1	2.4	21	0.2	0.5	0.2	45	0.23	0.062	20
1234513	Soil	0.8	28.1	8.9	69	0.1	25.7	8.1	197	2.37	5.5	6.2	3.4	20	0.1	0.5	0.2	42	0.23	0.052	20
1234514	Soil	0.7	24.8	8.0	66	0.1	23.9	7.1	213	2.23	6.1	<0.5	3.6	22	0.2	0.5	0.2	43	0.23	0.060	18
1234515	Soil	1.4	35.5	9.4	68	0.5	29.0	8.6	236	2.59	8.9	10.7	2.2	24	0.2	0.6	0.2	44	0.20	0.084	17
1234516	Soil	1.7	47.0	13.4	94	0.6	41.4	13.9	395	3.86	14.1	11.7	2.7	19	0.2	0.7	0.3	54	0.13	0.103	19
1234517	Soil	1.4	28.1	9.9	50	<0.1	19.5	5.6	179	2.52	6.2	2.4	1.5	10	0.1	0.4	0.2	45	0.05	0.060	21
1234439	Soil	1.2	18.4	9.9	20	0.2	9.9	3.3	71	1.56	4.5	0.6	0.1	20	0.2	0.4	0.2	42	0.14	0.058	13
1234440	Soil	1.0	42.2	10.3	72	<0.1	32.1	9.9	319	2.94	7.1	1.7	4.2	11	<0.1	0.5	0.2	34	0.06	0.055	35
1234441	Soil	1.1	23.6	10.6	59	<0.1	23.5	10.4	315	2.91	9.8	2.2	5.1	14	0.1	0.5	0.2	55	0.11	0.039	16
1234442	Soil	0.9	23.1	9.8	58	<0.1	23.6	7.8	239	2.54	8.0	3.2	3.9	19	<0.1	0.6	0.2	52	0.18	0.038	19
1234443	Soil	1.4	19.5	10.6	57	<0.1	39.1	9.0	259	2.96	24.5	2.6	3.1	15	0.2	0.6	0.2	57	0.11	0.036	14
1234444	Soil	0.4	22.3	8.6	51	0.1	26.3	10.4	1000	2.20	9.2	3.3	1.7	43	0.2	0.6	0.1	42	4.32	0.091	16
1234445	Soil	0.2	22.7	7.9	61	0.1	30.8	11.6	372	2.54	8.1	4.6	2.9	32	<0.1	0.5	0.1	48	1.23	0.107	18
1234446	Soil	0.6	23.9	7.9	53	<0.1	28.9	10.1	622	2.28	10.0	2.1	2.0	39	0.1	0.6	0.1	42	2.19	0.112	16
1234447	Soil	0.8	37.2	7.7	62	0.2	32.1	9.1	533	1.92	7.3	4.2	1.3	42	0.2	0.9	0.1	30	1.91	0.088	13
1234448	Soil	0.6	28.3	10.7	65	0.2	29.2	9.5	358	2.45	11.0	8.5	3.6	29	0.2	0.7	0.2	43	0.88	0.064	20
1234449	Soil	1.3	17.3	10.9	65	<0.1	23.5	10.6	682	2.87	5.1	1.2	3.0	21	0.2	0.5	0.1	83	0.40	0.031	11
1234601	Soil	0.6	66.5	6.1	83	0.1	65.6	29.5	1024	3.72	4.4	3.0	2.0	37	<0.1	0.3	0.1	67	0.67	0.205	22
1234602	Soil	0.8	17.3	5.3	34	0.1	26.0	11.0	1247	1.60	2.4	3.2	0.3	56	<0.1	0.3	<0.1	30	1.77	0.120	9



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Report Date:

December 05, 2011

Page:

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Part 2

CERTIFICATE OF ANALYSIS

WHI11001890.1

	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	Ti	S	Ga	Se	Te
		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	0.1	0.05	1	0.5	0.2
1234501	Soil	123	1.04	741	0.137	2	2.76	0.012	0.52	0.1	0.04	6.3	0.3	<0.05	8	0.7	<0.2
1234502	Soil	34	0.50	188	0.049	2	1.91	0.008	0.06	0.1	0.05	3.1	0.1	<0.05	6	0.6	<0.2
1234503	Soil	29	0.72	350	0.024	1	1.64	0.006	0.14	<0.1	0.02	3.4	0.2	<0.05	5	0.5	<0.2
1234504	Soil	32	0.63	192	0.057	<1	1.94	0.008	0.20	0.1	0.05	2.8	0.2	<0.05	6	<0.5	<0.2
1234505	Soil	31	0.58	395	0.060	<1	1.81	0.007	0.43	<0.1	0.03	3.5	0.3	<0.05	7	<0.5	<0.2
1234506	Soil	28	0.53	160	0.060	<1	1.54	0.008	0.08	0.1	0.03	2.6	0.1	<0.05	4	<0.5	<0.2
1234507	Soil	32	0.64	205	0.048	<1	1.76	0.009	0.08	0.1	0.03	3.1	0.1	<0.05	5	<0.5	<0.2
1234508	Soil	39	0.65	263	0.054	<1	1.86	0.009	0.08	0.1	0.03	3.6	0.1	<0.05	5	<0.5	<0.2
1234509	Soil	32	0.59	284	0.050	1	1.76	0.010	0.06	0.1	0.05	3.7	<0.1	<0.05	5	<0.5	<0.2
1234510	Soil	27	0.58	207	0.046	<1	1.70	0.008	0.10	<0.1	0.04	2.4	0.1	<0.05	5	<0.5	<0.2
1234511	Soil	27	0.92	301	0.093	<1	1.91	0.005	0.51	<0.1	0.03	3.2	0.4	<0.05	6	<0.5	<0.2
1234512	Soil	32	0.59	276	0.041	1	1.70	0.010	0.09	0.1	0.05	2.4	0.1	<0.05	5	<0.5	<0.2
1234513	Soil	29	0.58	221	0.047	<1	1.59	0.010	0.11	<0.1	0.04	2.7	0.1	<0.05	5	<0.5	<0.2
1234514	Soil	28	0.52	202	0.061	<1	1.33	0.011	0.10	0.1	0.03	2.4	0.1	<0.05	4	<0.5	<0.2
1234515	Soil	28	0.51	211	0.041	<1	1.46	0.011	0.13	0.2	0.09	2.2	0.1	<0.05	4	<0.5	<0.2
1234516	Soil	37	0.64	207	0.039	<1	2.03	0.008	0.21	<0.1	0.08	2.2	0.3	<0.05	6	<0.5	<0.2
1234517	Soil	25	0.31	123	0.032	<1	1.40	0.005	0.13	<0.1	0.03	1.4	0.1	<0.05	5	<0.5	<0.2
1234439	Soil	16	0.11	216	0.024	<1	0.90	0.007	0.05	0.1	0.06	0.7	<0.1	<0.05	5	<0.5	<0.2
1234440	Soil	24	0.56	145	0.041	<1	1.41	0.006	0.25	<0.1	0.03	1.4	0.2	<0.05	4	<0.5	<0.2
1234441	Soil	34	0.52	171	0.047	1	1.91	0.008	0.07	0.1	0.05	2.8	0.1	<0.05	5	<0.5	<0.2
1234442	Soil	30	0.56	197	0.051	<1	1.73	0.011	0.06	<0.1	0.04	2.7	0.1	<0.05	5	<0.5	<0.2
1234443	Soil	54	0.52	127	0.040	<1	1.73	0.007	0.05	0.1	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
1234444	Soil	26	2.85	231	0.040	1	1.36	0.014	0.05	0.1	0.06	2.9	<0.1	<0.05	4	<0.5	<0.2
1234445	Soil	32	0.93	228	0.058	1	1.47	0.016	0.05	0.2	0.05	3.2	<0.1	<0.05	4	<0.5	<0.2
1234446	Soil	29	1.28	194	0.055	2	1.24	0.018	0.07	0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
1234447	Soil	27	0.64	275	0.037	2	1.13	0.016	0.06	0.1	0.11	1.7	<0.1	0.10	3	0.7	<0.2
1234448	Soil	30	0.65	301	0.027	1	1.48	0.013	0.06	0.2	0.06	2.8	<0.1	0.06	4	0.5	<0.2
1234449	Soil	41	0.85	208	0.086	<1	1.77	0.015	0.10	0.2	0.04	4.6	0.2	<0.05	7	<0.5	<0.2
1234601	Soil	48	0.91	297	0.122	1	2.01	0.008	0.24	<0.1	0.04	3.3	<0.1	<0.05	6	<0.5	<0.2
1234602	Soil	23	0.32	211	0.046	3	0.99	0.030	0.06	<0.1	0.05	1.7	<0.1	0.10	3	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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	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	%	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
1234603	Soil	0.7	27.0	7.3	69	0.2	49.5	16.0	272	3.12	6.3	3.4	2.7	27	<0.1	0.4	0.1	57	0.59	0.142	16
1234604	Soil	0.8	40.7	9.7	102	0.1	55.8	18.9	734	4.05	9.0	3.2	3.9	26	0.2	0.9	0.2	65	0.44	0.182	23
1234605	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1234606	Soil	0.8	10.1	8.6	37	<0.1	12.8	4.0	145	1.66	6.0	5.9	0.6	17	0.2	0.5	0.2	48	0.18	0.053	13
1234607	Soil	1.3	14.7	10.7	42	<0.1	14.1	4.9	171	2.59	11.1	4.0	0.8	13	0.2	0.7	0.2	78	0.11	0.045	11
1234608	Soil	1.2	11.2	10.9	34	<0.1	10.3	3.9	166	2.59	10.0	2.4	1.7	11	<0.1	0.6	0.4	71	0.09	0.035	13
1234609	Soil	0.7	13.0	6.7	46	0.1	12.5	4.4	320	1.88	5.0	1.7	0.4	29	0.2	0.4	0.1	44	0.32	0.076	14
1234610	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1234611	Soil	1.5	27.6	9.5	55	<0.1	24.6	5.9	149	2.34	13.2	7.3	0.8	13	<0.1	0.4	0.2	39	0.07	0.059	20
1234612	Soil	1.4	12.3	11.9	37	0.2	11.2	4.6	203	2.64	10.1	3.2	3.6	14	0.2	0.6	0.3	92	0.11	0.026	15
1234613	Soil	1.6	35.1	10.6	71	0.1	30.3	10.7	311	3.00	10.1	5.0	5.5	25	0.3	0.8	0.1	60	0.22	0.068	18
1234614	Soil	1.4	19.6	12.5	35	<0.1	11.5	3.0	96	2.01	5.5	3.3	1.5	14	0.1	0.5	0.3	69	0.07	0.048	26
1234615	Soil	1.5	56.3	17.5	102	<0.1	52.3	15.1	248	4.24	7.2	3.4	7.7	19	0.1	0.8	0.3	56	0.10	0.062	34
1234616	Soil	1.3	15.9	11.0	46	<0.1	20.9	8.0	289	2.91	11.8	4.2	4.3	16	0.1	0.8	0.2	67	0.15	0.029	14
1234617	Soil	1.3	16.1	13.3	42	<0.1	17.2	7.6	264	3.26	11.7	1.4	5.0	14	0.2	0.6	0.2	73	0.12	0.041	17
1234618	Soil	1.2	22.6	12.1	50	<0.1	22.8	8.6	245	3.48	10.0	3.1	5.2	18	0.1	0.7	0.3	66	0.15	0.043	17
1234619	Soil	1.4	43.4	11.1	74	<0.1	32.5	11.0	268	3.19	8.6	4.5	4.5	21	0.2	0.7	0.2	50	0.20	0.076	21
1234620	Soil	1.6	43.9	11.9	65	0.2	26.9	7.8	166	3.75	11.3	2.5	5.5	12	<0.1	0.6	0.3	52	0.08	0.060	26
1234651	Soil	1.2	22.3	11.2	59	<0.1	23.3	9.6	297	2.73	10.6	3.5	3.7	12	<0.1	0.6	0.2	52	0.10	0.047	15
1234652	Soil	1.6	43.9	12.3	72	<0.1	36.0	11.5	421	2.92	6.5	1.3	5.9	10	<0.1	0.4	0.2	38	0.05	0.053	38
1234653	Soil	1.3	45.0	11.1	73	0.1	32.8	9.5	248	2.97	5.8	4.1	5.1	10	<0.1	0.3	0.1	39	0.06	0.056	35
1234654	Soil	0.7	24.5	8.6	55	<0.1	21.9	7.3	196	2.20	6.2	3.6	4.7	16	<0.1	0.4	0.1	43	0.18	0.041	21
1234655	Soil	0.8	26.9	11.1	51	<0.1	31.3	10.5	420	2.47	9.6	3.7	5.0	20	<0.1	0.5	0.1	55	1.07	0.031	22
1234656	Soil	0.5	15.8	10.3	61	0.1	21.5	10.0	750	2.15	9.6	2.2	1.2	38	0.4	0.5	<0.1	41	2.90	0.106	12
1234657	Soil	0.4	28.9	7.9	70	0.1	46.8	17.1	442	3.32	8.8	2.0	4.5	36	<0.1	0.4	<0.1	51	2.69	0.116	19
1234658	Soil	0.4	21.9	7.9	51	0.1	23.5	9.4	470	2.10	8.4	5.2	2.0	31	0.2	0.5	<0.1	39	2.04	0.087	13
1234659	Soil	0.5	30.7	11.2	70	0.2	34.5	10.0	264	2.32	16.6	2.2	4.5	28	<0.1	0.7	0.1	48	0.92	0.068	20
1234660	Soil	0.9	19.8	13.4	67	0.2	18.8	9.6	491	2.50	7.4	1.5	3.0	25	<0.1	0.6	0.1	51	0.71	0.046	17
1234661	Soil	0.8	31.1	14.4	76	<0.1	43.3	14.5	461	3.65	6.8	1.8	10.0	23	<0.1	0.6	0.1	66	0.40	0.051	30
1225908	Silt	2.3	48.7	9.1	190	1.1	111.9	17.5	607	2.82	17.3	7.5	1.9	38	1.1	1.4	0.1	66	0.62	0.103	20



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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	Ti	S	Ga	Se	Te
		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	0.1	0.05	1	0.5	0.2
1234603	Soil	47	0.77	200	0.056	<1	1.82	0.008	0.07	0.1	0.04	3.3	<0.1	<0.05	6	<0.5	<0.2
1234604	Soil	49	0.85	289	0.067	1	2.45	0.007	0.18	0.1	0.05	4.2	0.2	<0.05	7	<0.5	<0.2
1234605	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1234606	Soil	21	0.34	116	0.045	1	1.02	0.009	0.06	0.2	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
1234607	Soil	26	0.25	123	0.055	<1	1.38	0.008	0.05	0.1	0.06	2.0	0.1	<0.05	8	<0.5	<0.2
1234608	Soil	22	0.20	77	0.056	1	1.33	0.005	0.05	0.2	0.03	1.6	0.1	<0.05	7	<0.5	<0.2
1234609	Soil	19	0.29	179	0.034	2	0.87	0.011	0.08	0.3	0.09	0.9	<0.1	0.17	4	1.1	<0.2
1234610	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1234611	Soil	26	0.35	109	0.018	<1	1.26	0.009	0.13	<0.1	0.03	0.9	0.1	0.06	4	0.7	<0.2
1234612	Soil	26	0.29	90	0.066	1	1.62	0.006	0.05	0.1	0.03	2.2	0.2	<0.05	9	0.6	<0.2
1234613	Soil	35	0.57	151	0.081	2	1.88	0.012	0.12	0.1	0.05	3.1	0.1	0.06	5	1.0	<0.2
1234614	Soil	25	0.23	118	0.028	<1	1.66	0.004	0.07	<0.1	0.05	1.6	0.2	<0.05	9	1.0	<0.2
1234615	Soil	37	0.79	240	0.058	<1	2.34	0.007	0.35	<0.1	0.04	2.7	0.4	<0.05	7	1.7	<0.2
1234616	Soil	31	0.46	142	0.069	1	1.91	0.009	0.07	0.1	0.04	2.8	0.1	<0.05	6	0.5	<0.2
1234617	Soil	34	0.46	117	0.068	2	2.13	0.009	0.07	0.2	0.05	2.8	0.2	<0.05	7	0.8	<0.2
1234618	Soil	32	0.51	192	0.056	<1	1.96	0.008	0.08	0.1	0.04	2.7	0.1	<0.05	7	1.4	<0.2
1234619	Soil	31	0.59	116	0.076	2	1.62	0.010	0.18	<0.1	0.04	2.2	0.2	<0.05	5	1.0	<0.2
1234620	Soil	31	0.60	133	0.082	<1	1.69	0.005	0.26	<0.1	0.04	2.0	0.3	<0.05	5	0.7	<0.2
1234651	Soil	32	0.48	152	0.039	<1	1.99	0.008	0.07	0.2	0.04	2.4	0.1	<0.05	5	<0.5	<0.2
1234652	Soil	25	0.48	111	0.044	<1	1.37	0.004	0.22	<0.1	0.01	1.5	0.2	<0.05	4	0.5	<0.2
1234653	Soil	28	0.51	115	0.049	<1	1.50	0.004	0.25	<0.1	0.02	1.6	0.2	<0.05	4	<0.5	<0.2
1234654	Soil	28	0.51	175	0.053	<1	1.41	0.007	0.07	0.1	0.03	2.9	<0.1	<0.05	4	0.5	<0.2
1234655	Soil	37	1.24	249	0.056	<1	1.80	0.009	0.05	0.1	0.05	4.1	0.1	<0.05	5	<0.5	<0.2
1234656	Soil	22	1.49	174	0.032	<1	1.36	0.014	0.04	0.1	0.06	2.5	<0.1	<0.05	4	<0.5	<0.2
1234657	Soil	44	2.09	244	0.111	<1	1.71	0.013	0.27	0.2	0.05	3.7	0.1	<0.05	6	<0.5	<0.2
1234658	Soil	23	1.10	246	0.042	<1	1.13	0.013	0.04	0.2	0.06	2.5	<0.1	<0.05	3	<0.5	<0.2
1234659	Soil	35	0.68	259	0.046	1	1.49	0.013	0.06	0.2	0.07	3.5	<0.1	<0.05	4	<0.5	<0.2
1234660	Soil	27	0.62	278	0.032	<1	1.58	0.011	0.06	0.1	0.05	3.3	0.1	<0.05	5	<0.5	<0.2
1234661	Soil	59	1.00	294	0.120	<1	2.26	0.009	0.24	<0.1	0.02	5.0	0.3	<0.05	7	<0.5	<0.2
1225908	Silt	99	0.83	512	0.036	<1	1.76	0.007	0.08	0.1	0.17	3.8	0.2	<0.05	6	0.8	<0.2



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	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	%	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
1225909	Silt	3.5	34.5	13.0	109	1.2	53.3	9.9	331	2.61	13.8	7.0	1.5	23	0.2	0.7	0.2	62	0.15	0.090	25
1225910	Silt	3.1	39.4	10.6	128	0.9	70.9	20.8	938	2.50	11.9	4.1	2.2	26	0.7	0.7	<0.1	53	0.24	0.083	25



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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		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	0.1	0.05	1	0.5	0.2
1225909	Silt	71	0.66	403	0.031	<1	1.78	0.006	0.09	0.1	0.17	2.5	0.2	<0.05	6	0.9	<0.2
1225910	Silt	81	0.74	431	0.037	<1	1.61	0.006	0.10	<0.1	0.12	2.6	0.2	<0.05	5	1.0	<0.2



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QUALITY CONTROL REPORT

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	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	%	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																					
1234515	Soil	1.4	35.5	9.4	68	0.5	29.0	8.6	236	2.59	8.9	10.7	2.2	24	0.2	0.6	0.2	44	0.20	0.084	17
REP 1234515	QC	1.3	34.5	9.2	70	0.6	26.5	8.1	230	2.51	9.0	7.9	2.1	24	0.3	0.5	0.2	42	0.20	0.083	18
1234604	Soil	0.8	40.7	9.7	102	0.1	55.8	18.9	734	4.05	9.0	3.2	3.9	26	0.2	0.9	0.2	65	0.44	0.182	23
REP 1234604	QC	0.9	41.5	9.5	105	0.1	56.2	18.4	743	4.10	9.1	5.5	3.9	26	0.4	0.8	0.2	66	0.46	0.182	23
1234615	Soil	1.5	56.3	17.5	102	<0.1	52.3	15.1	248	4.24	7.2	3.4	7.7	19	0.1	0.8	0.3	56	0.10	0.062	34
REP 1234615	QC	1.4	54.2	16.6	97	<0.1	49.2	14.6	240	4.05	7.1	3.7	7.4	19	<0.1	0.8	0.3	55	0.10	0.061	33
1234656	Soil	0.5	15.8	10.3	61	0.1	21.5	10.0	750	2.15	9.6	2.2	1.2	38	0.4	0.5	<0.1	41	2.90	0.106	12
REP 1234656	QC	0.6	15.7	10.8	63	0.1	21.7	10.2	760	2.22	9.5	0.7	1.1	40	0.6	0.6	0.1	43	2.98	0.111	12
Reference Materials																					
STD DS8	Standard	13.6	108.4	126.3	304	1.7	38.2	7.5	616	2.44	25.5	118.3	7.4	83	2.2	6.1	6.9	44	0.75	0.078	18
STD DS8	Standard	13.5	106.3	125.6	299	1.8	36.2	7.3	583	2.35	25.3	118.5	7.4	69	2.2	5.9	6.7	41	0.67	0.075	17
STD DS8	Standard	13.4	107.1	129.7	320	1.8	37.6	7.3	630	2.47	27.3	105.7	7.1	79	2.4	5.7	6.4	43	0.71	0.077	18
STD DS8	Standard	13.9	105.3	120.1	298	1.7	35.7	7.1	601	2.36	25.2	102.0	7.8	71	2.4	5.9	7.2	41	0.69	0.074	17
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<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	<2	<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	<2	<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	<2	<0.01	<0.001	<1



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Project: ACE

Report Date: December 05, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11001890.1

	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	Te
		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	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1234515	Soil	28	0.51	211	0.041	<1	1.46	0.011	0.13	0.2	0.09	2.2	0.1	<0.05	4	<0.5	<0.2
REP 1234515	QC	27	0.51	206	0.042	<1	1.46	0.011	0.13	0.1	0.08	2.1	0.1	<0.05	4	<0.5	<0.2
1234604	Soil	49	0.85	289	0.067	1	2.45	0.007	0.18	0.1	0.05	4.2	0.2	<0.05	7	<0.5	<0.2
REP 1234604	QC	48	0.85	293	0.066	1	2.46	0.008	0.19	0.1	0.06	4.3	0.1	<0.05	7	0.6	<0.2
1234615	Soil	37	0.79	240	0.058	<1	2.34	0.007	0.35	<0.1	0.04	2.7	0.4	<0.05	7	1.7	<0.2
REP 1234615	QC	35	0.77	231	0.056	<1	2.23	0.007	0.34	<0.1	0.04	2.6	0.4	<0.05	7	0.7	<0.2
1234656	Soil	22	1.49	174	0.032	<1	1.36	0.014	0.04	0.1	0.06	2.5	<0.1	<0.05	4	<0.5	<0.2
REP 1234656	QC	23	1.51	173	0.036	1	1.40	0.015	0.04	0.1	0.05	2.6	<0.1	<0.05	4	0.6	<0.2
Reference Materials																	
STD DS8	Standard	117	0.63	291	0.125	2	1.05	0.091	0.45	2.9	0.20	3.5	5.4	0.20	5	4.9	4.7
STD DS8	Standard	113	0.62	290	0.122	2	0.97	0.110	0.43	3.1	0.20	2.3	5.5	0.12	5	5.3	5.4
STD DS8	Standard	118	0.67	284	0.124	2	0.93	0.098	0.41	3.0	0.22	2.4	5.6	0.15	5	6.0	5.1
STD DS8	Standard	116	0.59	272	0.126	2	0.93	0.095	0.43	3.0	0.18	2.3	5.3	0.16	5	5.5	4.5
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
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	<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	<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	<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	<0.2

Appendix III: Rock Sample Assay Certificates



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Submitted By: Bruce Durham

Receiving Lab: Canada-Whitehorse

Received: October 16, 2011

Report Date: November 10, 2011

Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11001789.1

CLIENT JOB INFORMATION

Project: ACES
Shipment ID: ACE Rx Oct 2011
P.O. Number
Number of Samples: 6

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

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
Robert Middleton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	6	Crush, split and pulverize 250 g rock to 200 mesh			WHI
3B	6	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	6	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

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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Project: ACES
Report Date: November 10, 2011

Page: 2 of 2 **Part** 1

CERTIFICATE OF ANALYSIS

WHI11001789.1

	Method Analyte Unit MDL	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2
1222861	Rock	0.85	<2	0.1	15.8	4.1	37	<0.1	10.2	0.4	41	0.49	2.7	1.1	<0.1	2	<0.1	0.2	<0.1	4
1222862	Rock	1.28	<2	0.1	2.6	2.5	25	<0.1	6.8	0.3	24	0.38	2.6	1.9	<0.1	2	<0.1	0.2	<0.1	3
1222863	Rock	1.03	<2	0.7	43.7	2.2	53	0.3	12.6	1.4	64	1.78	0.6	1.4	3.6	5	0.2	0.5	0.1	9
1222864	Rock	0.37	19	5.6	12.4	4.6	15	1.4	3.5	0.4	23	0.84	17.0	9.8	1.2	27	0.1	1.4	0.1	48
1222865	Rock	0.55	<2	3.8	73.6	3.5	170	1.1	64.1	1.5	38	1.75	15.0	1.2	1.7	36	0.5	6.1	<0.1	46
1222866	Rock	1.21	<2	0.2	4.2	10.1	40	<0.1	5.8	2.5	78	0.95	7.9	2.1	6.0	40	0.5	2.5	<0.1	3



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Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

WHI11001789.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1
1222861	Rock	0.016	<1	18	0.06	13	0.001	<20	0.12	<0.001	0.02	<0.1	0.02	<0.1	<0.05	0.3	<0.5	<1
1222862	Rock	0.017	<1	15	0.04	10	<0.001	<20	0.09	<0.001	0.02	<0.1	0.02	<0.1	<0.05	0.1	<0.5	<1
1222863	Rock	0.029	4	18	0.17	422	0.005	<20	0.58	0.005	0.14	<0.1	0.03	0.1	<0.05	0.7	0.7	2
1222864	Rock	0.046	6	23	0.03	235	0.003	<20	0.14	0.002	0.15	0.1	0.33	<0.1	0.13	0.5	1.9	1
1222865	Rock	0.228	8	20	0.09	597	0.002	<20	0.47	0.002	0.11	<0.1	0.16	<0.1	<0.05	0.9	4.1	1
1222866	Rock	0.052	10	12	<0.01	25	<0.001	<20	0.24	0.002	0.03	<0.1	0.04	0.2	<0.05	0.5	<0.5	<1



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Part 1

QUALITY CONTROL REPORT

WHI11001789.1

	Method Analyte Unit MDL	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Reference Materials																					
STD DS8	Standard			14.2	110.7	130.9	315	1.8	38.4	7.7	602	2.44	25.0	136.2	7.2	74	2.3	5.2	7.2	42	0.69
STD OREAS45CA	Standard			0.6	539.9	19.0	58	0.3	272.3	93.1	923	15.34	3.8	37.3	7.2	17	0.1	<0.1	0.2	214	0.42
STD OXC88	Standard		198																		
STD OXH82	Standard		1353																		
STD OXC88 Expected			203																		
STD OXH82 Expected			1278																		
STD DS8 Expected				13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	4.8	6.67	41.1	0.7
STD OREAS45CA Expected				1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1	Prep Blank		<2	0.1	4.5	4.4	49	<0.1	3.1	4.3	598	2.09	2.5	1.5	8.1	84	<0.1	<0.1	0.2	41	0.60



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Project: ACES

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QUALITY CONTROL REPORT

WHI11001789.1

		Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga
		Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1
Reference Materials																			
STD DS8	Standard		0.080	16	114	0.62	280	0.117	<20	0.93	0.088	0.41	2.6	0.19	5.4	0.16	2.0	5.3	4
STD OREAS45CA	Standard		0.038	16	639	0.16	163	0.122	<20	4.09	0.014	0.08	<0.1	0.04	<0.1	<0.05	37.7	0.6	18
STD OXC88	Standard																		
STD OXH82	Standard																		
STD OXC88 Expected																			
STD OXH82 Expected																			
STD DS8 Expected			0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	5.4	0.1679	2.3	5.23	4.7
STD OREAS45CA Expected			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
BLK	Blank																		
BLK	Blank																		
BLK	Blank		<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1
Prep Wash																			
G1	Prep Blank		0.087	19	7	0.54	213	0.152	<20	1.11	0.120	0.53	<0.1	0.01	0.4	<0.05	2.4	<0.5	5