

Assessment Report

Renewal Application ~ August 2017

**Work Completed August 1, 2, 3rd, 2017:
Mechanical excavation, sampling, and geochemical analysis.
Performed on Claim JA68 (YE78898)**

**Clinton Creek Area, Map# 116C 07
Dawson City**

**UTM to Access:
07 V 0516266 / 7144665
Report Written By: Erini Petroutsas**

**Claims Ownership: 100% owned by Donald Ruman
Quartz Claims Grouping JA1 – 81
HD03502**

**JA 1 - 40 : YF04541 - YF04580
JA 41 - 70 : YE78871 – YE78900
JA 71 – 73 : YE78315 - YE78317
JA 74 – 81 : YE78291 - YE78298**

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Purpose and Targets

To locate, identify and map serpentinized ultramafic bodies reported by Green & Roddick (1961), by assaying observed fault-altered ultramafic rock; testing for gold-silver and copper as well as lithium and rare earth mineral potential. Continuing ongoing prospect for jade or identifiable nephrite outcroppings throughout the claims grouping.

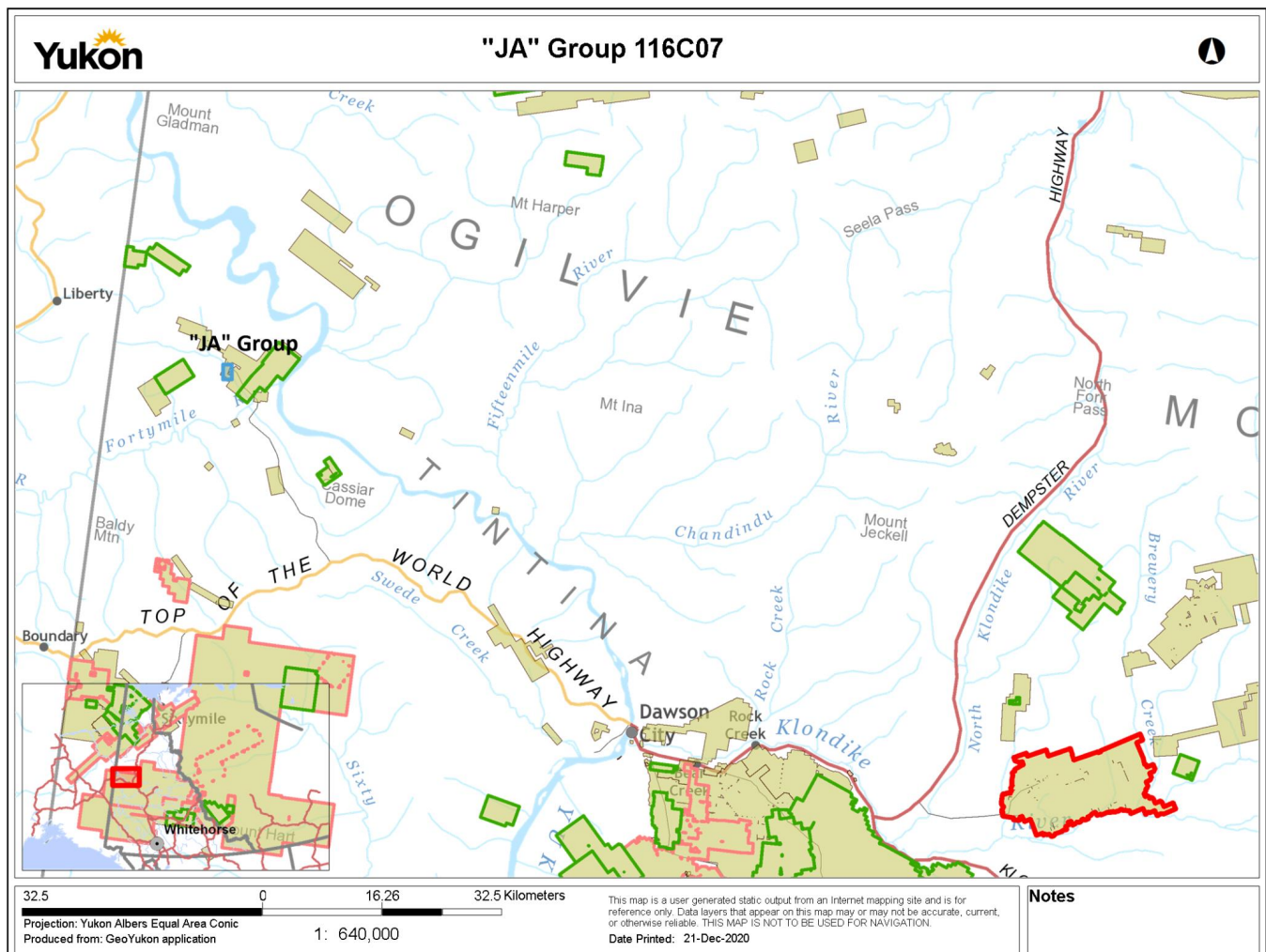
Location, Access, Vegetation and Work Performed Description

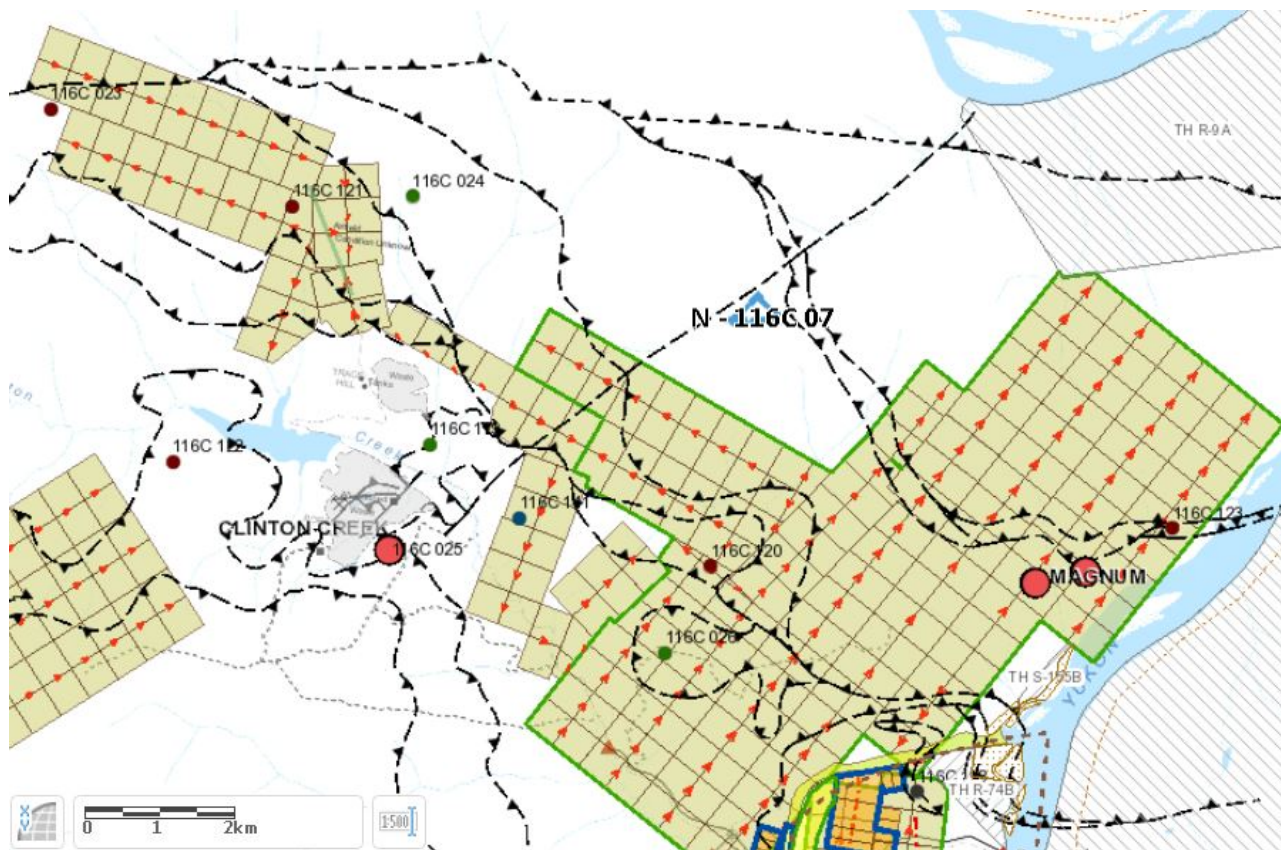
Claims accessed by travelling along all seasons road to shuttered Clinton Creek asbestos mine. Helicopter or small plane can be used to access upper claims, landing on a still functional airstrip. Vegetation consists of shrub and moss, patches of spruce forest exist on steep slopes throughout the grouping.

The "old airstrip" lies over flat and easily traversable plateau that continues over the north-east side of claims block and to old access roads. Steep inclines to west creek - "China Creek", and its headwater remain a target for jade.

Steep inclines of faulted ranges of ultramafic, fault altered schist and or quartz and massive carbonates run perpendicular to the access road on the south-east side of the claim block, through small tributaries from north-west trending fault zones, that during 2017 were the focus of gold-silver and rare earth mineral assay testing. Using the existing access road for excavation, testing to observe and prospect exposed bedrock outcroppings for in depth analysis and assay testing.

"JA Grouping" sits between 40 mile on the Yukon River (abandoned gold rush town), and Clinton Creek (abandoned asbestos mine). Target area is roughly 80km NW of Dawson City.





Geology and Min-file History

MinFile Recorded Information Yukon Government Database

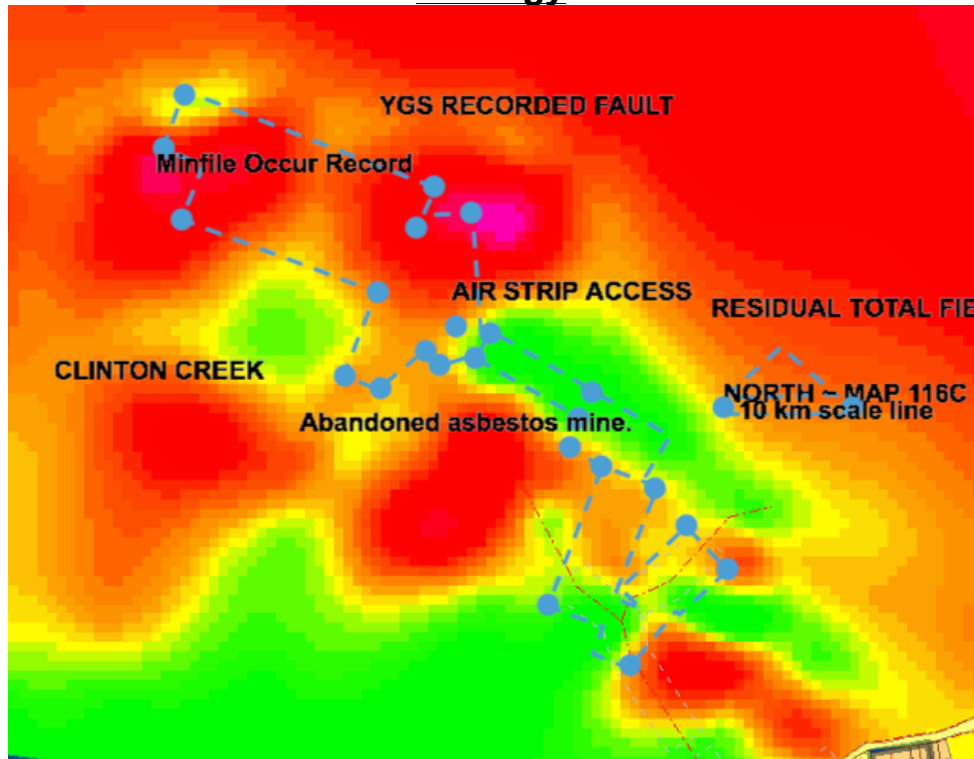
116C 141: Occurrence Mag Anomaly “Cripple”. Asbestos target during 1959 of Cassiar Asbestos Corp., who completed trenching and mag surveys. Cominco performed mapping and sampling 1981-82. *Ultramafic talus exposure. Highly sheared serpentinite; with occasional chrysotile veinlets (up to 5mm, less than 2% grade). Ultramafics are enclosed within Nassina Series schists. Large outcrops of “greenstone” were recorded at the time with names such as ‘Archeron’ over a roughly 5km long area on the north-east side of Clinton Creek. **Claim JA64~YE78894**

116C 121: Showing Mag Anomaly “Foxy”. Asbestos Corp. 1962 target. A chrysotile showing exposed in trenches along the brow of the hill. West and east of the roughly 5km long showing, ultramafic caps, slices or bodies were exposed to be the cause of magnetic anomaly results. Grade of asbestos found to be unviable at roughly 2%. *General bedrock described as black and massive to highly sheared Serpentinite within the Nassina Series, and Fault Altered Schists. **Claim JA8 ~YF04548**

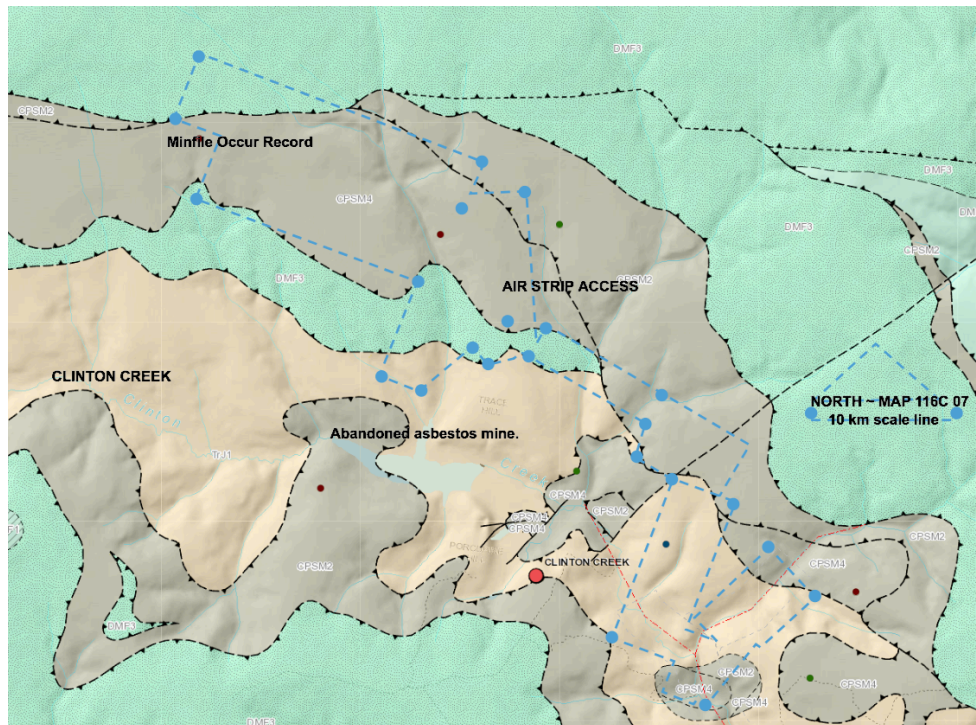
116C 023: Off claims on north-west. *Ultramafic outcrops with aeromagnetic anomalies along the ridge. Massive dark to medium green Serpentinite; underlain by Quartzite, Nassina Schists. Asbestos grades were less than 2%.

116C 024: Off claims on north-east. *Ultramafic body, approx. 150m thick, enclosed in Graphite Schist (nassina). Serpentine and Peridotite, Chrysotile veinlets (less than 2%). Strongly Sheared Serpentinite showed up throughout the roughly 5km range in trenching and drill core testing done by Asbestos Corp. in 1957.

Geology



Residual Total Field: (pink) highest magnetics at 500 nT; (red) 400 nT; (orange-yellow) 200 nT; (green) lowest magnetic reading of area at -50 nT.



CPSM4 Grey: Slide Mountain~ Oceanic assemblage of basalt, serpentine, gabbro & metavolcanic rocks, weakly deformed and metamorphosed.

DMF3 Green: Devonian to Mississippian~ Dark-grey to black carbonaceous meta-sedimentary rocks.

TrJ1 Pink: Upper Triassic~ Weathering calcareous siltstone, shale and fine sandstone.

Prospecting History

Focus on NW trending faults

North-West & Horizontal trending faults of graphite-altered pyroxene, serpentine and ultramafic were assay sampled for rare-earth content and gold potential. Green & black “jade-like” samples were taken to a jade mining specialist to test and identify for Nephrite and Amphibole.

Nephrite is formed by metasomatic exchange between ultramafic and silica-bearing rocks within the Mississippian to Jurassic/Oceanic age. High pressure blue-schist or eclogite grade metamorphic rocks are favorable for jadeite exploration, as well as pyroxene (high pressured) tremolite-actinolite series amphiboles.

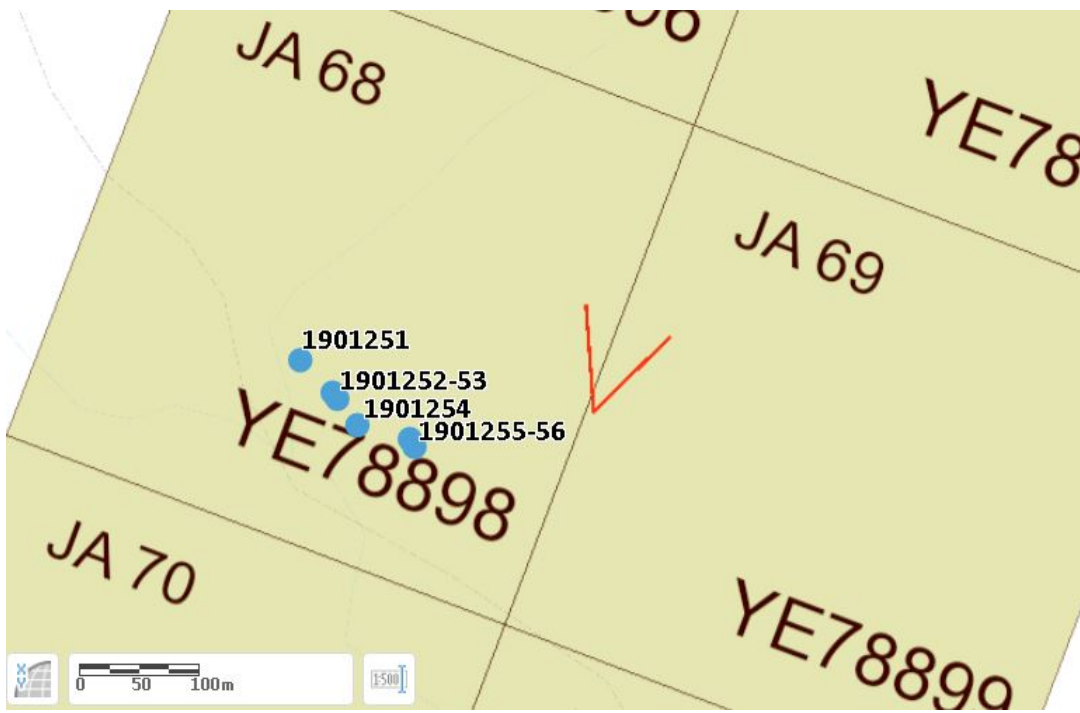
“Clinton Creek” was an asbestos mine, operated by Cassiar Asbestos Corporation Ltd. between 1967 and 1978. In subsequent numerous environmental assessment reports for reclamation; repeated high soil sample assay results have been indicating anomalous (above guidelines for residential or parkland use) amounts of barium, chromium, nickel and arsenic in soils and sediments of the area. A probable result of ultramafic decomposition;

“The alkalinity of the surrounding carbonate-ultramafic general bedrock/decomposing soil, likely keeps the metals assayed out of solution and prevents their movement into surrounding waters.” (Detailed soil and water tests seen in 99 Royal Roads Study ~ EMR Library 116C 07, Call # c1999_04, 1999, Royal Roads University, “Environmental Review of the Clinton Creek Abandoned Asbestos Mine, Yukon Canada.” Indian & Northern Affairs.)

As seen from satellite map and by in-field prospecting; “Slices” of mafic & ultramafic carbonates lie between thrust faults. Visible asbestos-actinolite sheeting in large wide veins, are still exposed and observed at the reclaimed (1979 to current) mine-site. (Conwest Exploration Company Limited Call # 092060). Minimal to no asbestos has been identified yet (by prospectors), beyond the borders of the abandoned Clinton Creek Mine, where the “JA” claims are located.

During 2016, prospect sampling of exposed lithology’s on the “JA Project”, specifically fault altered bedrock; resulted in assay results of trace gold, anomalous copper, cobalt and lithium, as well as rare earth elements. Jade exploration (ongoing since 2014 by claims owner) has identified favorable nephrite specimens out of outcrop, and nephrite/jade is an ongoing exploration target.

Sample Locations - Claim JA68 ~ YE78898



Sample Descriptions

1901251 - T13: Grey-clear white quartz-carbonate lens, oxidizing orange over approx. 80%. Fractures. No sulfides visible. Lens is 30cm wide and between chromium and carbonate “country rock”.

1901252 – T17: White quartz veinlet’s up to 5cm wide, cross-cut chromium oxidizing mafic “carbonate” country rock.

1901253 – T18: Networking cross-cutting veinlet’s up to 4cm, run through turquoise-brown oxidizing “carbonate” (fault altered mafic and ultramafic rock).

1901254 – T21: Quartz-(quartzite) lens 20cm wide, oxidizing white powder, crystallization of quartz remnants.

1901255 – T23: Fault altered ultramafic. Chromium oxidation, manganese, brown-orange oxidations.

1901256 – T24: Continuation of orange-brown-green oxidizing “carbonate/altered ultramafic bedrock”. Cross-cutting veinlet’s of black ‘liquid’ contains small visible sulfides.

Assay Results – Prospect Sampling 2017
1:1:1 Aqua Regia Digestion Ultratrace and ICP-MS analysis.
Bureau Veritas Commodities Canada Ltd.

Bureau Veritas Commodities Canada Ltd.			Final Report																
Client:		Ruman																	
Job Number:		WHI19000767																	
Number of Sample:		6																	
Project:		JA Clinton																	
Method		WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr			
Unit		KG	PPM	PPM	PPM	PPM	PPB	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
MDL		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5			
Test Name	Sample#	Type																	
T13	1901251	Rock	1.12	0.19	42.34	0.83	29.9	117	99	15.7	1617	2.71	27	<0.1	<0.2	0.4	140.1		
T17	1901252	Rock	1.11	0.19	1.8	0.44	24.5	8	617.5	35.3	932	2.6	71.7	0.1	1.4	0.1	111.5		
T18	1901253	Rock	0.8	0.15	2.96	0.63	18.1	11	1416.6	69.9	1467	4.15	65.9	0.8	<0.2	<0.1	197.8		
T21	1901254	Rock	0.81	0.08	38.56	0.09	14.6	140	986.8	63.7	772	4.68	59.2	0.5	0.6	<0.1	25.5		
T23	1901255	Rock	0.55	0.53	2.86	3.12	26.1	11	1976.7	76.2	822	5.33	2	0.7	1.5	<0.1	526		
T24	1901256	Rock	1.61	0.05	8.48	0.51	24.2	38	2260.5	104.4	899	5.56	1	0.2	<0.2	<0.1	108.6		

Test	Sample #	AQ252 Cd	AQ252 Sb	AQ252 Bi	AQ252 V	AQ252 Ca	AQ252 P	AQ252 La	AQ252 Cr	AQ252 Mg	AQ252 Ba	AQ252 Ti	AQ252 B	AQ252 Al	AQ252 Na	AQ252 K	AQ252 W	AQ252 Sc	AQ252 Tl
Trench Name		PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM
		0.01	0.02	0.02	1	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02
T13	1901251	0.05	9.15	<0.02	36	4.87	0.01	1	34.2	3.61	48.4	0.002	<1	0.14	0.002	<0.01	0.1	6.4	<0.02
T17	1901252	0.02	2.98	<0.02	9	1.41	<0.001	<0.5	257.2	11.59	50	<0.001	2	0.08	0.001	0.02	0.6	3.9	0.02
T18	1901253	<0.01	1.75	<0.02	11	4.71	<0.001	<0.5	578.2	14.08	97.1	<0.001	<1	0.11	0.003	<0.01	0.2	5.4	<0.02
T21	1901254	<0.01	1.31	<0.02	27	0.5	<0.001	<0.5	1007.4	15.12	22.3	<0.001	<1	0.58	<0.001	<0.01	<0.1	7.6	<0.02
T23	1901255	<0.01	1.86	<0.02	22	12.07	<0.001	<0.5	355.8	14.38	125.4	0.002	<1	0.24	0.002	<0.01	1.4	6.9	0.08
T24	1901256	<0.01	0.95	<0.02	11	2.42	<0.001	<0.5	229.2	17.86	294.7	0.001	<1	0.21	0.002	<0.01	0.7	3.4	<0.02

Sample #	AQ252 S	AQ252 Hg	AQ252 Se	AQ252 Te	AQ252 Ga	AQ252 Cs	AQ252 Ge	AQ252 Hf	AQ252 Nb	AQ252 Rb	AQ252 Sn	AQ252 Ta	AQ252 Zr	AQ252 Y	AQ252 Ce	AQ252 In	AQ252 Re	AQ252 Be	AQ252 Li	AQ252 Pd	AQ252 Pt
	%	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	PPM	PPM	PPB	PPB
	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1901251	0.02	12	0.6	<0.02	0.8	0.41	<0.1	<0.02	<0.02	0.3	0.1	<0.05	1	2.03	3.3	0.03	<1	0.2	1.4	<10	<2
1901252	<0.02	<5	1.1	0.02	0.5	3.27	<0.1	<0.02	<0.02	1.6	<0.1	<0.05	1.3	1.06	0.6	<0.02	<1	0.1	1.6	<10	3
1901253	<0.02	19	0.7	0.03	0.6	7.6	<0.1	0.03	<0.02	1.7	<0.1	<0.05	2.2	1.37	1.1	<0.02	<1	0.3	1.2	<10	<2
1901254	<0.02	6	<0.1	<0.02	1.2	1	0.2	<0.02	<0.02	0.3	<0.1	<0.05	1	1.5	0.3	<0.02	<1	<0.1	3.3	<10	4
1901255	<0.02	80	1	0.05	0.5	19.12	0.2	0.16	<0.02	6.3	<0.1	<0.05	10	2.33	0.9	<0.02	<1	0.4	2.6	<10	2
1901256	<0.02	21	0.2	<0.02	0.5	21.4	0.1	0.02	<0.02	6.4	<0.1	<0.05	4.2	3.48	0.7	<0.02	<1	0.4	3.7	<10	<2

Data Interpretation

All 6 samples assayed significant to anomalous amounts of: **Copper, Silver, Nickel, Cobalt, Zinc, Manganese, Magnesium, Arsenic, Strontium, Stibnite, Vanadium, Calcite, Chromium, Barium, Scandium, Cesium, Cerium, Zirconium, Yttrium, and Lithium.**

Sample #'s **1901252** and **55** were the only samples to assay trace gold (1.4 and 1.5ppb).
 Sample #'s **1901252, 54** and **55** assayed also trace Platinum at 3ppb, 4ppb and 2ppb.
 Sample #'s **1901251** and **54** contained trace silver results of 117 and 140 ppb.

Recommendations and Conclusion

Copper, Cobalt and Nickel anomalies as well as significant calcite, magnesium and manganese amounts indicate the presence of carbonate alteration ('carbonatization') of former ultramafic and serpentine rocks, as surmised, (Green and Roddick 1961).

Observed further fault alteration of this 'country rock' may have created geological environments with potential for gold and possibly platinum, as well as the initial targets of jade and rare earth minerals.

Further prospecting and analysis should be done, with rock and soil sampling targeting the defined and observable fault zone areas throughout the claims grouping. Detailed assay sampling of exposed bedrock formations on the south and east of the property is recommended, focusing on the "altered ultramafics", faults and contacts.

Green and Roddick 1961 Map #116C 07



*Dark brown notations, surrounding Trace Hill classification "E": L.H. Green described the rare ultrabasic 'slabs' scattered through the Klondike as well as 40 mile goldfields as "reddish brown-weathering, dark-green serpentinized ultramafic remnants. Within muscovite, chlorite, graphitic, sericite schist's".

Test Trench 2017 Photos







Statement of Qualification

Erini Petroutsas:

Employed 14 consecutive summers in the Dawson area as a gold prospector in the field and as property manager for claims assessment, and as a geo-tech for drilling and exploration projects.

Employment experiences have included: Assistant to: Joanna Hodge PhD Geology; Erin O'Brian Masters Geology; Ken Galambos Geologist; Chris Ash Masters Ultramafic Geology; Kevin Brewer P.Geo; Bohumil Molak PhD, P.Geo. Al Doherty P.Geo.

References can be requested from any of the above professionals. Signed & Dated:

Expenses

Work Performed on Quartz Claim JA 68 ~ YE78898

August 1st - August 3rd, 2017 – Map # 116C 07

Assessment to be Applied to: **JA 1 – 81**

Mobilization of CAT307 SSR Rubber Track Excavator to Clinton Creek from Dawson City, and back. As per receipt from Cam Arkenstal.

\$1,500

3 days operating excavator on claims test trenching exposed bedrock to take lithology readings and assay samples. 10 hours per day digging @ self owned rate of \$150 hour including operator and fuel. Don Ruman Operating.

\$4,500

3 days prospecting Erini Petroutsas. Recording test pits and sampling for assay @ \$350/day.

\$1,050

2 persons living expense for 3 days working on claims @ \$100 per person per day.

\$600

2 trucks and 2 quad for 3 days @ \$50/day for each truck and \$40/day for each quad. (\$180 x 3)

\$540

6 Samples selected for assay from hard rock exposures. Fire analysis plus 32 elements @\$60 per sample.

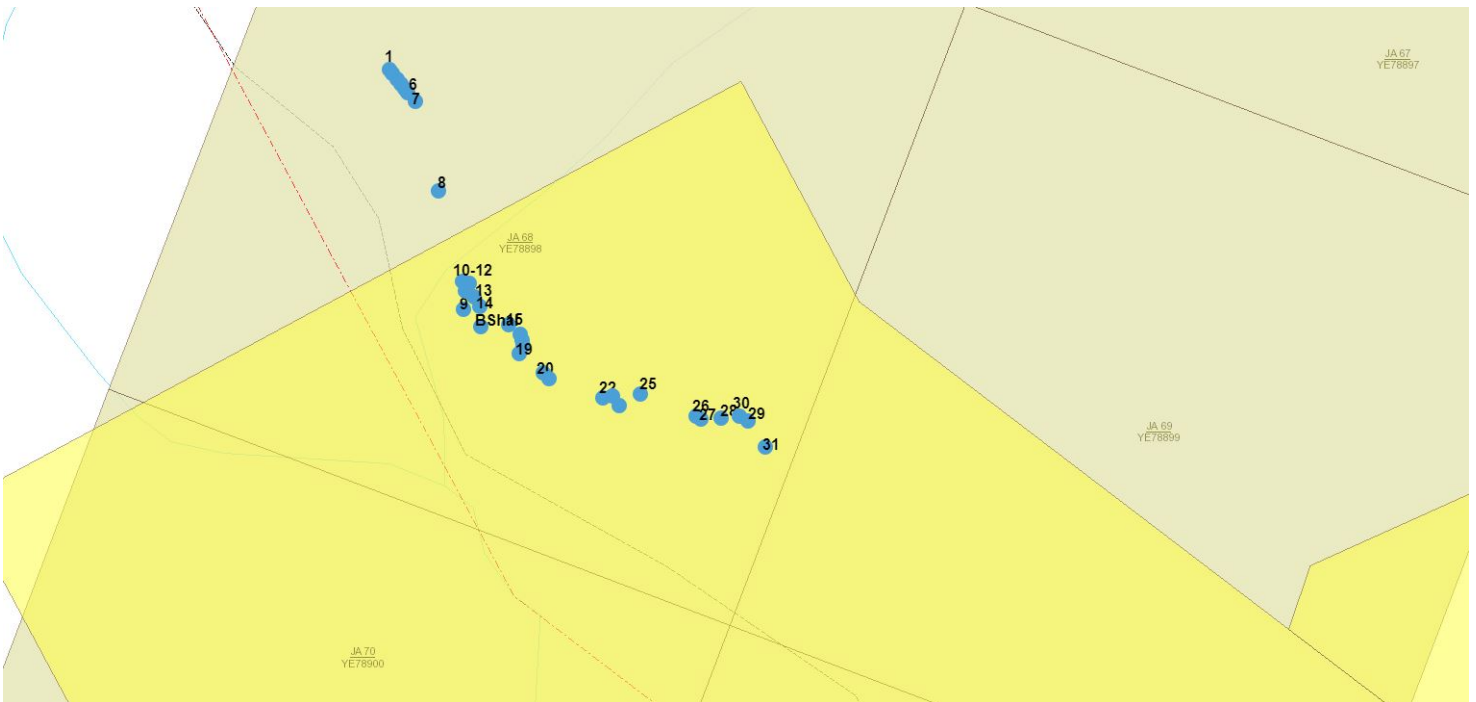
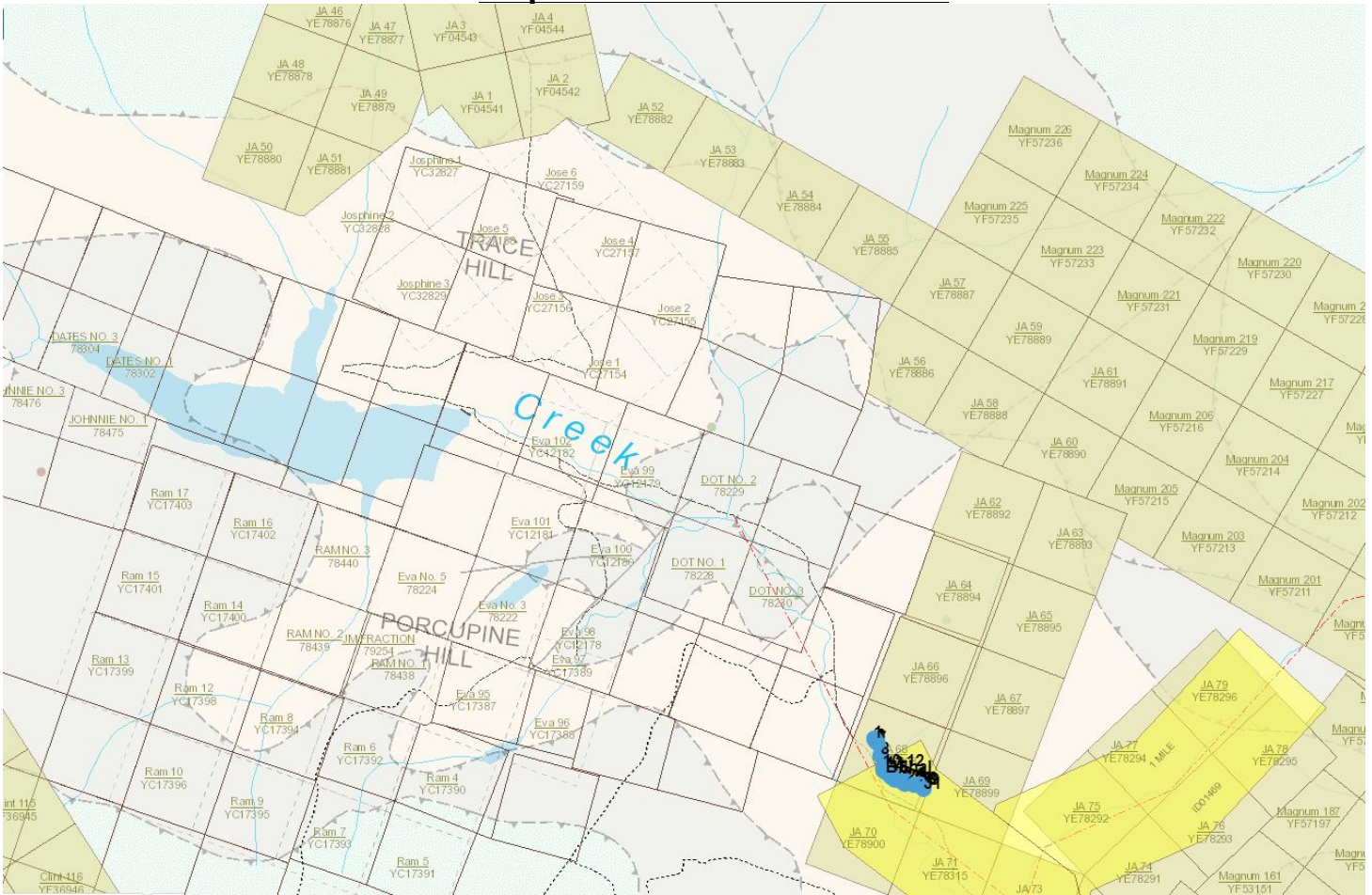
\$360

Report Writing and Transport-Submittal of samples to Whitehorse cost.

\$850

Total Expenses "Clinton JA" claims August 2017 = \$9,400

Test Trenching 2017 Map #116C 07 Clinton Creek



32 Test Pit Excavated
Format: UTM Datum[121]: WGS 84

Name	Zone	Easting	Northing	Altitude	
T1	07	W	0515072	7145984	340.7
T2	07	W	0515075	7145981	347.4
T3	07	W	0515077	7145977	354.8
T4	07	W	0515080	7145973	366.9
T5	07	W	0515083	7145972	368.5
T6	07	W	0515087	7145969	369.5
T7	07	W	0515092	7145965	371.4
T8	07	W	0515116	7145906	381.8
T9	07	W	0515144	7145828	356.3
T10	07	W	0515144	7145841	357.3
T11	07	W	0515141	7145846	359.4
T12	07	W	0515146	7145845	361.3
T13	07	W	0515151	7145837	362.5
T14	07	W	0515155	7145832	363.7
T15	07	W	0515177	7145822	360.4
T16	07	W	0515185	7145816	366.6
T17	07	W	0515184	7145813	365.2
T18	07	W	0515187	7145809	364.0
T19	07	W	0515187	7145803	337.1
T20	07	W	0515205	7145792	357.7
T21	07	W	0515208	7145789	358.0
T22	07	W	0515247	7145781	349.3
T23	07	W	0515254	7145782	351.0
T24	07	W	0515259	7145777	355.6
T25	07	W	0515273	7145787	354.6
T26	07	W	0515313	7145776	353.4
T27	07	W	0515315	7145777	353.9
T28	07	W	0515330	7145777	353.4
T29	07	W	0515349	7145778	352.9
T30	07	W	0515343	7145780	363.3
T31	07	W	0515363	7145761	365.2
TBSHAL	07	W	0515158	7145818	387.8

Assay Sample Co-ordinates

Sample #	Location Co-ordinates UTM WGS84			Test#	
1901251	7	W	515151	7145837	T13
1901252	7	W	515184	7145813	T17
1901253	7	W	515187	7145809	T18
1901254	7	W	515208	7145789	T21
1901255	7	W	515254	7145782	T23
1901256	7	W	515259	7145777	T24

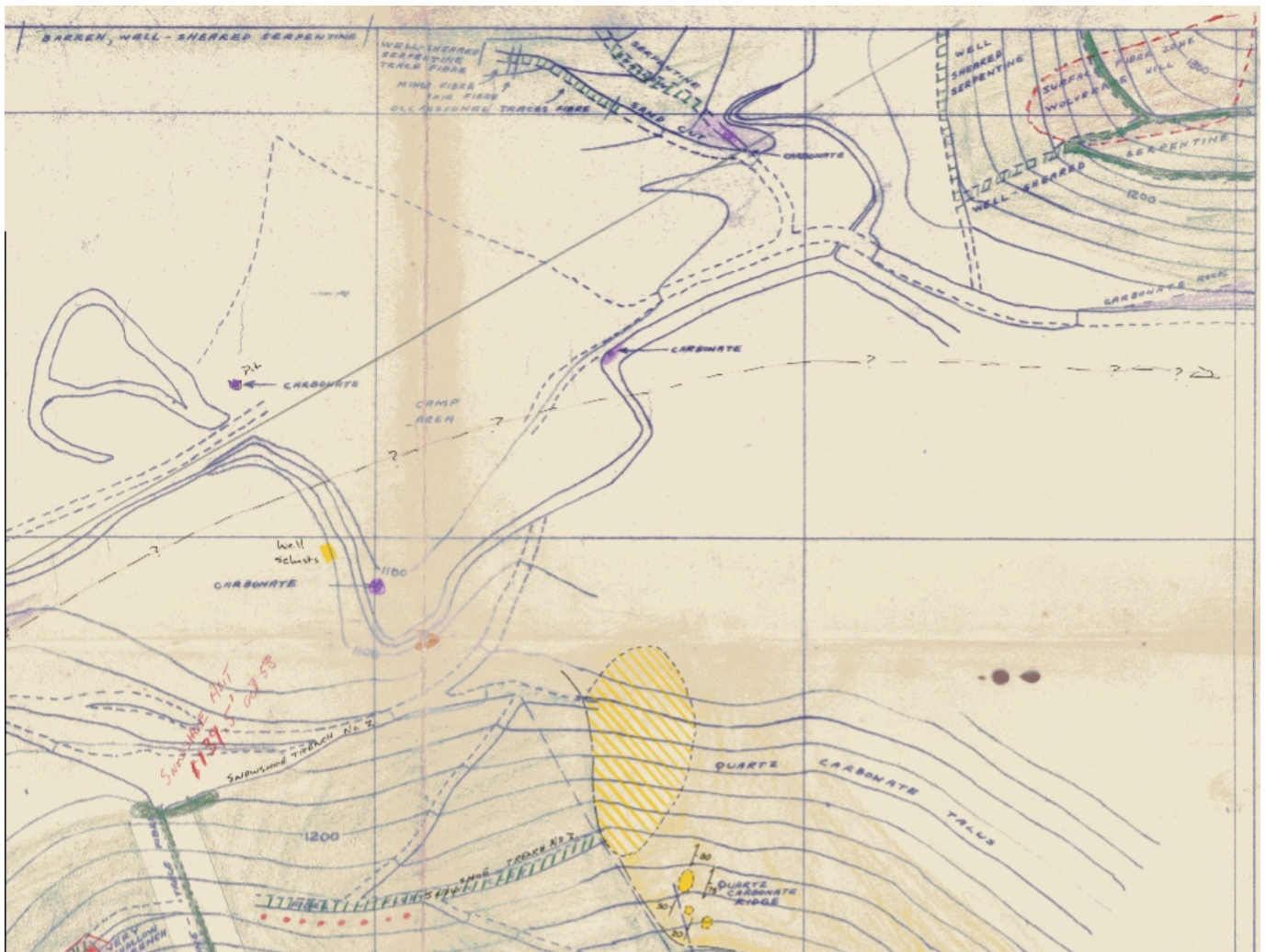


Quartz Claim JA 68 ~ YE78898 South & East of Reclaimed Asbestos Mine

1958 Report on Clinton Creek, Min-file Call #092060

1956 – 1958 ~ Conwest Exploration Company Ltd., Wm.V. Smitheringale & Trevor Horsley.





Assay Certificates



BUREAU VERITAS MINERAL LABORATORIES
Canada

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PHONE (604) 253-3158

Client: **Ruman**
Box 431
Dawson City Yukon Y0B 1G0 Canada

Submitted By: Erini Petroustas
Receiving Lab: Canada-Whitehorse
Received: November 25, 2019
Report Date: January 03, 2020
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI19000767.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
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

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	6	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ252_EXT	6	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
BAT01	1	Batch charge of <20 samples			VAN
SHP01	6	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Invoice To: **Ruman**
Box 431
Dawson City Yukon Y0B 1G0
Canada

CC:

MAY LAI
Data Collection Specialist



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Ruman**
Box 431
Dawson City Yukon Y0B 1G0 Canada

Project: None Given
Report Date: January 03, 2020

Page: 2 of 2 Part: 1 of 3

CERTIFICATE OF ANALYSIS

WHI19000767.1

Method	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca			
Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01			
1901251	Rock	1.12	0.19	42.34	0.83	29.9	117	99.0	15.7	1617	2.71	27.0	<0.1	<0.2	0.4	140.1	0.05	9.15	<0.02	36	4.87		
1901252	Rock	1.11	0.19	1.80	0.44	24.5	8	617.5	35.3	932	2.60	71.7	0.1	1.4	0.1	111.5	0.02	2.98	<0.02	9	1.41		
1901253	Rock	0.80	0.15	2.96	0.63	18.1	11	1416.6	89.9	1467	4.15	65.9	0.8	<0.2	<0.1	197.8	<0.01	1.75	<0.02	11	4.71		
1901254	Rock	0.81	0.08	38.56	0.09	14.6	140	988.8	63.7	772	4.68	59.2	0.5	0.6	<0.1	25.5	<0.01	1.31	<0.02	27	0.50		
1901255	Rock	0.55	0.53	2.86	3.12	26.1	11	1976.7	76.2	822	5.33	2.0	0.7	1.5	<0.1	526.0	<0.01	1.86	<0.02	22	12.07		
1901256	Rock	1.61	0.05	8.48	0.51	24.2	38	2280.5	104.4	899	5.56	1.0	0.2	<0.2	<0.1	108.6	<0.01	0.95	<0.02	11	2.42		



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Project: None Given
Report Date: January 03, 2020

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CERTIFICATE OF ANALYSIS

WHI19000767.1

Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge		
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.1
1901251	Rock	0.010	1.0	34.2	3.61	48.4	0.002	<1	0.14	0.002	<0.01	0.1	6.4	<0.02	0.02	12	0.6	<0.02	0.8	0.41	<0.1	
1901252	Rock	<0.001	<0.5	257.2	11.59	50.0	<0.001	2	0.08	0.001	0.02	0.6	3.9	0.02	<0.02	<5	1.1	0.02	0.5	3.27	<0.1	
1901253	Rock	<0.001	<0.5	578.2	14.08	97.1	<0.001	<1	0.11	0.003	<0.01	0.2	5.4	<0.02	<0.02	19	0.7	0.03	0.6	7.80	<0.1	
1901254	Rock	<0.001	<0.5	1007.4	15.12	22.3	<0.001	<1	0.58	<0.001	<0.01	<0.1	7.6	<0.02	<0.02	6	<0.1	<0.02	1.2	1.00	0.2	
1901255	Rock	<0.001	<0.5	355.8	14.38	125.4	0.002	<1	0.24	0.002	<0.01	1.4	6.9	0.08	<0.02	80	1.0	0.05	0.5	19.12	0.2	
1901256	Rock	<0.001	<0.5	229.2	17.86	294.7	0.001	<1	0.21	0.002	<0.01	0.7	3.4	<0.02	<0.02	21	0.2	<0.02	0.5	21.40	0.1	



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Page: 2 of 2 Part: 3 of 3

CERTIFICATE OF ANALYSIS

WHI19000767.1

Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
1901251	Rock	<0.02	<0.02	0.3	0.1	<0.05	1.0	2.03	3.3	0.03	<1	0.2	1.4	<1	
1901252	Rock	<0.02	<0.02	1.6	<0.1	<0.05	1.3	1.06	0.6	<0.02	<1	0.1	1.6	<10	
1901253	Rock	0.03	<0.02	1.7	<0.1	<0.05	2.2	1.37	1.1	<0.02	<1	0.3	1.2	<10	
1901254	Rock	<0.02	<0.02	0.3	<0.1	<0.05	1.0	1.50	0.3	<0.02	<1	<0.1	3.3	<10	
1901255	Rock	0.16	<0.02	6.3	<0.1	<0.05	10.0	2.33	0.9	<0.02	<1	0.4	2.6	<10	
1901256	Rock	0.02	<0.02	6.4	<0.1	<0.05	4.2	3.48	0.7	<0.02	<1	0.4	3.7	<10	



QUALITY CONTROL REPORT

WHI19000767.1

Method Analyte	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Unit	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
MDL	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
Pulp Duplicates																					
1901252	Rock	1.11	0.19	1.80	0.44	24.5	8	617.5	35.3	932	2.80	71.7	0.1	1.4	0.1	111.5	0.02	2.98	<0.02	9	1.41
REP 1901252	QC		0.21	1.70	0.41	24.6	9	609.1	34.2	918	2.57	68.0	0.1	0.7	<0.1	111.5	<0.01	2.77	<0.02	9	1.38
Reference Materials																					
STD DS11	Standard	16.13	164.65	147.09	364.5	1818	83.7	15.0	1035	3.12	46.5	2.9	102.8	9.3	71.9	2.72	9.05	13.37	50	1.02	
STD OREAS262	Standard	0.73	122.75	61.53	160.2	481	67.7	29.3	536	3.33	38.1	1.4	62.5	10.8	38.6	0.70	5.29	1.13	22	3.08	
STD DS11 Expected		14.6	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063	
STD OREAS262 Expected		0.68	118	56	154	450	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	5.06	1.03	22.5	2.98	
BLK	Blank	<0.01	0.01	<0.01	0.2	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01	
Prep Wash																					
ROCK-WHI	Prep Blank	1.16	3.70	1.24	28.2	9	0.8	3.5	446	1.73	1.2	0.5	0.9	2.2	24.1	<0.01	0.06	<0.02	22	0.61	



QUALITY CONTROL REPORT

WHI19000767.1

Method Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
Unit	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	
MDL	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
Pulp Duplicates																					
1901252	Rock	<0.001	<0.5	257.2	11.59	50.0	<0.001	2	0.08	0.001	0.02	0.6	3.9	0.02	<0.02	<5	1.1	0.02	0.5	3.27	<0.1
REP 1901252	QC	<0.001	<0.5	254.9	11.32	46.6	<0.001	<1	0.08	0.001	0.02	0.5	3.6	<0.02	<0.02	<5	0.9	0.03	0.5	3.01	<0.1
Reference Materials																					
STD DS11	Standard	0.073	20.5	62.0	0.90	388.6	0.096	5	1.17	0.071	0.41	3.4	3.2	5.36	0.28	302	2.4	4.79	5.4	3.05	0.1
STD OREAS262	Standard	0.041	18.6	46.5	1.21	253.5	0.003	4	1.33	0.069	0.32	0.3	3.2	0.50	0.26	180	0.3	0.22	4.3	2.82	<0.1
STD DS11 Expected		0.0701	18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	3.4	4.9	0.2835	260	2.2	4.56	5.1	2.88	0.08
STD OREAS262 Expected		0.04	15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	3.24	0.47	0.253	170	0.4	0.23	3.73	2.8	
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
Prep Wash																					
ROCK-WHI	Prep Blank	0.040	6.9	2.4	0.43	52.8	0.073	<1	0.75	0.067	0.09	<0.1	2.5	<0.02	<0.02	<5	<0.1	<0.02	3.4	0.21	<0.1



QUALITY CONTROL REPORT

WHI19000767.1

Method Analyte	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
Unit	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
Pulp Duplicates														
1901252	Rock	<0.02	<0.02	1.6	<0.1	<0.05	1.3	1.06	0.6	<0.02	<1	0.1	1.6	<10
REP 1901252	QC	<0.02	<0.02	1.5	<0.1	<0.05	1.3	1.07	0.6	<0.02	<1	0.1	1.6	<10
Reference Materials														
STD DS11	Standard	0.09	1.96	37.0	2.0	<0.05	4.0	8.55	40.1	0.31	49	0.6	24.3	83
STD OREAS262	Standard	0.33	<0.02	20.8	0.6	<0.05	12.3	11.51	36.1	0.04	<1	1.0	18.8	<10
STD DS11 Expected		0.06	1.53	33.6	1.8		3.1	7.82	37	0.24	50	0.67	23.3	100
STD OREAS262 Expected		0.27		18.6	0.5		11.7	11.2	32	0.033		1.14	17.8	
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10
Prep Wash														
ROCK-WHI	Prep Blank	0.10	0.18	2.6	0.3	<0.05	2.8	9.53	13.3	<0.02	<1	0.3	1.5	<10