CRIP claims
2010-2011
Grouping Information-# HD03133

Work done on
Crip 1-46
Fall 2011

Dawson District Map 116B-03
UTM to access:
7098800 /07V 580000

Crip1-6	YD07758-YD07763	Renewed to 8/9/14}
Crip7-14	YD11909-YD11916	Renewed to 27/7/14}
Crip 15-17	YD11936-YD11938	Renewed to 3/8/13}

Crip 18-25 YD11901-YD11908
Crip26-31 YD11930-YD11935
Crip32-34 YD11939-YD11941
Crip35-43 YD92424-YD92432
Crip44-46 YD102311-YD102313
Crip Friday13 YD89600

Claims Owner: Sylvain Montreuil
Report Compiled by: Erini Petroutsas

Table of Contents

Introduction and Location

Cripple Hill lies very close to the mouth of Bonanza Creek, less than 5 kms from Dawson City. Mined continuously by placer operators since the end of the last century, it has produced abundant gold both from it's gravels & the surface of the bedrock directly below these gravel. Exact records of gold recovered there are not available, but the entire hill that existed there has been removed over the years at great expense and effort. Fortunately as hard rock prospectors, this has left us a good view of the under gravel terrain that possibly contributed some of the gold into these gravels.

We suspect it was named by adventuring prospectors from California who brought mining expertise to Dawson during the gold rush and are known to have traveled all over this area working as consultants with local miners, before moving on to more adventures in Alaska and so on. As a point of interest, information on the Cripple Creek mine in Colorado is included as Appendix 6, to compare any similarities they may have seen to name it thus.

Conveniently located 2 kms up the Bonanza Creek Road, at the mouth of Bonanza Creek, directly outside of Dawson City limits. Access to the property is by paved road, and there are further intricate access roads all over the property that can be traveled by 4wheel drive or equipment.

Much of the vegetation and overburden has been removed already on the portion of the claims that border the road. Further back we see the soil that covers the gravels sustaining spruce, birch patches, moss cover and local vegetation. The claim block extends east to the Heritage trail ridge, (a trail connecting Callison Industrial Area to King Solomon's Dome) and south another km down Bonanza Creek road. Please see claim block map page 11.

Lovett Gulch, Cripple Hill and Pure Gold Creek, (stripped hills at the mouth of Bonanza Creek) Viewed from the Midnight Sun Dome, Dawson City, Yukon, Canada.

Dawson City Historical Society & Museum pictures:
Lovett Gulch and Cripple Hill

Picture from the ridge road heritage trail depicting Cripple Hill roughly a century ago. **These two white channel hills have been mined continually since the beginning of the gold rush more than 100 years ago and are still producing gold today, out of the gravels and along the hard rock horizon,** ***as well as out of decomposing exposed bedrock beneath the discarded overburden.***

Regional Geology

Nassina Subterrane- Metamorphisized early to mid Paleozoic continental margin with superposed Late Devonian and early Mississippian arc volcano and plutonic rocks. In contact with Klondike Schist Subterrane, also Paleozoic arc volcanic and plutonic rocks. Quartz feldspar augen schist surrounding Klondike schist with pockets of porphyry and grandiorite intrusions. See page 16 for more regional geology information.

Property Exploration History

Since September of 2009, prospecting and reconnaissance has been done on the 6 initial claims covering Cripple Hill and Trail Gulch to Lovett Gulch. During 2010 an expanded program was laid out over the area and an additional 41 claims were staked extending Trail Hill & Pure Gold to the heritage trail rim.

Cross sampling of exposures and rock sampling from different areas on Crip 1-6 revealed more than one potential system:

Vivid red staining is abundant in separate areas of the soil & gravel on the plateau and sides of Cripple Hill.

Towards Trail Gulch the bedrock geology consists of a greenish zone of silicious quartzite with eyelets of clear white quartz. Fold is thrusted with foliated gneiss and sericitic schists in between vertical graphitic fault zones. Purple & mauve specular hematite samples have been taken and the area is high in iron.

Green stained carbonate rock, serecitic schists in between graphitic thrust faults.

Graphite (and graphite altered) sections of fault action can be seen uncovered by previous placer operations.

Exposed graphitic fault zones are abundant in the area of Cripple Hill & Trail Gulch. See Mortensen Report on Cripple Hill, 1999 for Klondike Star.

Graphite is formed by the metamorphism of carbonaceous sediments, such as limestone, and by the reaction of carbon compounds with hydrothermal solutions.[1]

"Black, green, orange Vein ~ Cam's Vein"

Towards the back of Cripple where the hill has been "discarded", an interesting intrusion was discovered branching into the white channel at the very base of the gravels. Working together with the placer operator of the property we estimated Au recovered based on percentage of exposed offshoot run through the trommel. Cam Arkensa, the placer operator, noticed, and let us examine, that all the gold recovered below the arc of the intrusion was coarse, indicating hard rock potential deeper down. The orange/green/black quartz "vein" continued southeast past the 15 meters pit into the harder muscovite/sericite schist bedrock. 100 ounces of gold was recovered just from mining this "arc" by the placer miner according to the claim owner Mr. Algotsson. (Reported for NSR purposes.) See "arc" picture next page.

Samples taken from sections of this "black & green & orange" zone; which is composed of abundant silky muscovite coated calcite and quartz, broken up and sheathed in a green "goo" (which may be decomposing chromium), yielded colors of gold when pulverized and panned. About 15-20 small specs of gold were recovered, some black coated (possibly by manganease), from just 1 sample bag taken from an area of the outcrop. This "vein" continues on both sides of the trench and further underground to an extent that will be explored further when proper permits are obtained to dig with an 800 hoe. It was not bothered during the 2011 exploration season.

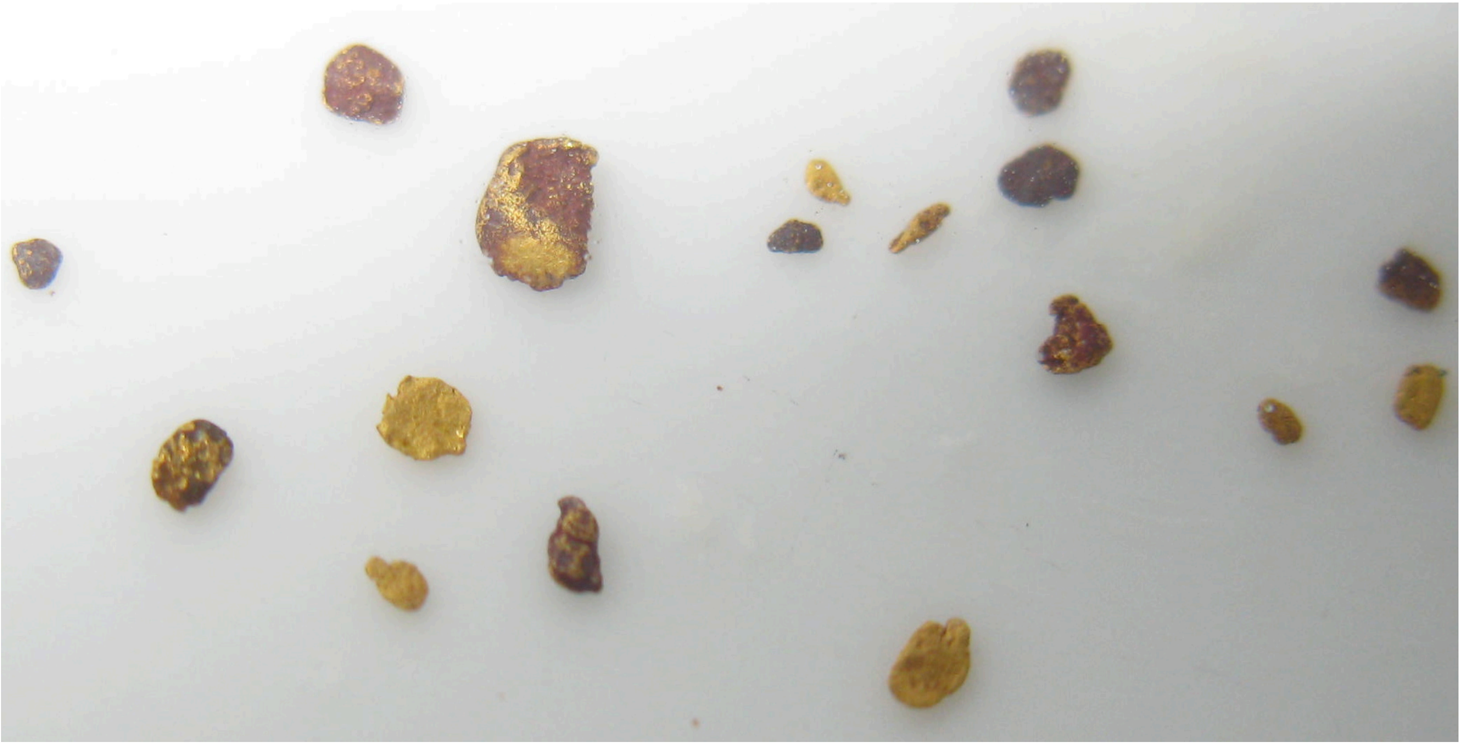
[1] Page 121, Smithsonian Institute; Rock and Gem; Ronald Bonewitz. DK, 2005.

CamVein/CripPit1 - Quartz Claim Crip3

Vein or remnant uncovered at the base of gravel mount. Continues downward & South for a yet undetermined distance.

Sectional composition of exposed "vein" where coarse gold pieces were recovered.

Au samples recovered from “Cam Vein”. A 7lb bag of material from the same area as sample **CripPit1**; Was crushed, pulverized and panned by Exploration Manager & Assistant.



Picture taken in macro mode & no flash. Pieces are much smaller in actuality, but do contribute to proving our hypothesis that the gold- of Cripple Hill Area comes from the native quartz (most probably calcite carried), and environment. The gold envelops quartz pieces that are red-stained, blackened and coated with green & silver sericite schist.

Kevin Brewer a Yukon geologist also spent a day examining the Crip claims 1-6 and “Cam’s Vein”, during Sept. 2010, as an objective observer. Samples that he took along with the exploration manager and an assistant are described in further detail below. See: Assay locations, descriptions and results 2010.

Visible gold corresponded to positive assay reading **CripPit1- 1257 ppb (1.26gm/ton) Au. Inspectorate Analysis,** (pages 12-14)**.** Though hosted in placer channel, the intrusion is a definitive formation of blackened and rusty quartz/calcite, sulfides, sericite & fuchsite; which we are seeing to host coarse, hard rock gold.

Mike Glynn a Yukon prospector with more than 20 years experience also spent a day traversing just “Lovett Hill”, which is the hill between Trail & Lovett Gulch’s and his notes describing the western edge of the hill are as follows from 2010:

“At an area of elevation of 425 meters, bedrock formations have been exposed due to placer activities. Variably foliated rusty weathered quartz imbricated with muscovite schist, strikes 70deg and dips 30deg to the SW. Muscovite alters to talc clays, some feldspar and quartz textures visible. There is light green weathering, with bands of pinkish rust that could be hematitic alterations, locally in contact with the basement of the white channel.

Local zones of alteration with silicate enrichments run up to 2.5 meters wide in areas along the visible face, quartz swells and eyelets run up to 1.5cm.”

Test Pit Trenching

5 trenches were dug in the area between Trail & Cripple Gulch's, at "IronQ" location, with a small hoe rented from Dave Algotsson, during November of 2010. Three test pits were also done on Ophir Hill.

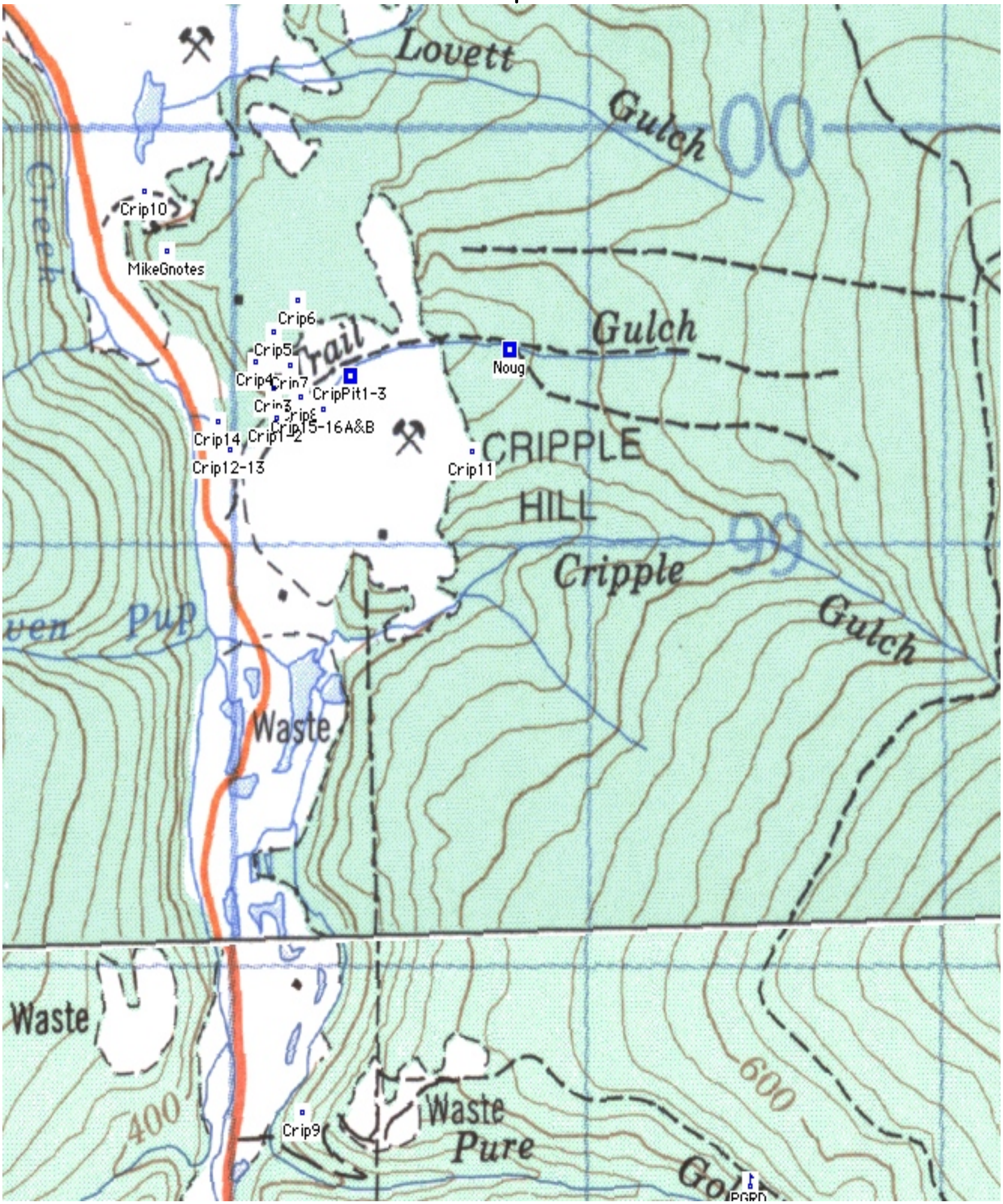
Photograph of (placer) gold recovered by Dave Algotsson 2010, (a placer miner) **on the Crip4 claim, Trail Gulch. "Noug" location & 2010 Crip Report.**

Nougat is in "crystallized", dendritic form with Quartz attached. Indicating it to be natively formed & not to have traveled a far distance.

This piece, courtesy of Dave, was hoed out and shown from an area on Trail Gulch **of decomposing bedrock, where once again** ***green/orange stained calcite*** **& quartz** is abundant and native. See note (**Noug**) on 2010 summer program sample map, page 11.

DaveTP. Looking down Bonanza Creek from Ophir Hill.
TestPit1~**(April 2011 assessment report submitted).**

2010 sample locations



Visible gold seen from hard-rock at CripPit ("Cam's Vein") and at location Noug (Dave Algotssen's nugget, 2010 trenching). See 2010 Crip Report for details.

2010 assay descriptions, locations & results.

Assay samples taken August 31st 2010 with Kevin Brewer a Yukon Geologist

Sample Name	Description	Location		Utm Nad84	
Crip 1	Altered schist, graphite bone, garnet	Road cut to Cams camp	07W	580113	7099318
Crip 2	Altered schist, more sericite, pic near hammmer	Same as above	07W	580113	7099318
Crip 3	Mafic layer, musty vein, branch in pic	"	07W	580104	7099390
Crip 4	Sheared broken bedrock. Red/green weathered	"	07W	580053	7099453
Crip 5	Fine Fe veining, milky white qz. Hammer pics-2	"	07W	580104	7099525
Crip 6	Red hematitic?, not magnetic	Trail at Ditch	07W	580172	7099602
Crip 7	Chloritized alteration from Cams yard, 30S dip	Cams camp	07W	580172	7099602
Crip 8	Altered schist, iron. Red-orange brown	The goo vein	07W	580180	7099369
Crip 9	Pink lighter photos	Nose of pure Gold Creek	07V	580185	7097646
Crip 10	Silicious Quartz veining in altered chlorite	Lovitt Hill nose	07W	579740	7099864
Crip 11	Talcy altered schist, quartz veinlets	Cripple Hill nose	07W	580663	7099238
Crip 12	Very silicious qz, some blue qz in 1mm eyelet	Top of waterline Trail Hill	07W	579982	7099242
Crip 13	Very seriticized siliceous schist, bank pic	Same as above	07W	579984	7099243
Crip 14	Pic 2 hammers	Waterline near bottom	07W	579948	7099310
Crip 15	Goo in contact with folliated gneiss 230/54deg	Alteration into gravel vein	07W	580244	7099339
Crip 16A	Carbonate altered quartz, iron stainings	Same as above	07W	580244	7099400
Crip 16B	double	At heritage trail & ditch	07W	580245	7099400
CripPit 1	Black calcite?	Gravel "vein" pit	07W	580319	7099420
CripPit 2	Muscovite coated	Same as above	07W	580319	7099420
CripPit 3	Alteration- should run coarse Au	Lowest depth of pit -15meters	07W	580319	7099420

Sample CripPit1~Taken by objective observer Kevin Brewer (P.Geo) returned the highest assay amount of 2010 with 1.26 gram/ton of gold. From "Cam's Vein".

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Certificate of Analysis

10-360-02862-01

Inspectorate America Corporation
#200 - 11620 Horseshoe Way
Richmond, British Columbia V7A 4V5 Canada
Phone: 604-272-7818

Distribution List

Attention: Kevin Brewer
3151BV 3rd Ave
Whitehorse, Yukon Y1A 1G1
Phone: 604-812-2863
EMail: kbrewerelargoresources.com

Attention: R. Cambell
EMail: rcampbell@largoresources.com

Attention: Bill Pearson
EMail: bpearson@tucanoexploration.com

Submitted By: **Castillian Resources Ltd.**
3151BV 3rd Ave
Whitehorse, Yukon Y1A 1G1

Date Received: 09/14/2010
Date Completed: 09/30/2010
Invoice:

Attention: **Kevin Brewer**

Project: **PureGold**
Description:

Samples	Type	Preparation Description
95	Rock	SP-RX-2K/Rock/Chips/Drill Core

Method	Description
30-4A-TR	30 Element, 4 Acid, ICP, Trace Level
Au-1AT-AA	Au, 1AT Fire Assay, AAS

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim or deposit has been determined based on the results of assays of multiple samples of geologic materials collected by the prospective investor or by a qualified person selected by him and based on an evaluation of all engineering data which is available concerning any proposed project. For our complete terms and conditions please see our website at www.inspectorate.com.

By ____________
David Chiu, BC Certified Assayer

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#200 - 11620 Horseshoe Way
Richmond, British Columbia V7A 4V5
Canada

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10-360-02862-01

Castillian Resources Ltd.
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Whitehorse, Yukon Y1A 1G1

Sample Description	Sample Type	Au Au-1AT-AA ppb 5	Ag 30-4A-TR ppm 0.5	Al 30-4A-TR % 0.01	As 30-4A-TR ppm 5	Ba 30-4A-TR ppm 10	Bi 30-4A-TR ppm 2	Ca 30-4A-TR % 0.01	Cd 30-4A-TR ppm 0.5	Co 30-4A-TR ppm 1	Cr 30-4A-TR ppm 1	Cu 30-4A-TR ppm 1	Fe 30-4A-TR % 0.01	K 30-4A-TR % 0.01	La 30-4A-TR ppm 10
RZ-12	Rock	6	1.9	5.63	<5	843	<2	0.62	<0.5	7	325	52	2.47	2.79	30
CC-1	Rock	115	2.1	5.07	<5	2186	<2	0.61	<0.5	5	192	61	1.95	2.34	30
CC-2	Rock	43	1.2	0.56	<5	391	<2	0.04	<0.5	2	135	7	0.45	0.13	<10
CC-3	Rock	7	1.9	6.65	<5	1231	<2	1.68	<0.5	15	122	70	3.92	1.47	26
KS-1	Rock	11	40.5	5.92	<5	1824	<2	0.63	<0.5	17	168	7424	4.53	2.15	40
KS-2	Rock	12	35.9	3.22	<5	951	<2	0.32	<0.5	11	216	>10000	3.29	1.14	28
Cariboo	Rock	11	5.6	7.39	<5	473	<2	1.60	<0.5	17	96	113	4.69	1.78	31
Crip 1	Rock	36	1.3	5.65	8	1697	<2	0.09	<0.5	4	128	7	1.48	1.76	23
Crip 2	Rock	<5	1.5	6.47	<5	1791	<2	0.10	<0.5	3	111	6	0.92	1.90	24
Crip 3	Rock	8	1.0	4.29	52	346	<2	0.62	<0.5	3	192	5	1.21	0.32	21
Crip 4	Rock	7	1.5	5.97	<5	1841	<2	0.40	<0.5	4	95	4	1.93	2.31	33
Crip 5	Rock	<5	1.4	3.51	<5	355	<2	0.08	<0.5	3	181	7	0.82	0.34	11
Crip 6	Rock	17	2.2	5.33	7	4013	<2	0.14	<0.5	6	192	64	2.30	2.28	24
Crip 7	Rock	7	1.4	5.64	<5	1750	<2	0.16	<0.5	3	100	6	1.17	1.96	16
Crip 8	Rock	6	1.8	8.00	12	505	<2	0.15	<0.5	24	1217	280	>10	0.58	46
Crip 9	Rock	12	2.0	5.79	<5	964	<2	1.07	<0.5	7	143	14	1.80	0.90	30
Crip 10	Rock	8	1.5	3.77	<5	814	<2	>10	<0.5	2	62	2	1.41	2.26	19
Crip 11	Rock	<5	1.3	5.25	29	790	<2	1.20	<0.5	4	164	7	1.85	0.85	32
Crip 12	Rock	<5	1.5	5.51	<5	1927	<2	0.72	<0.5	4	93	6	1.58	1.42	31
Crip 13	Rock	25	1.3	5.68	<5	1820	<2	0.84	<0.5	4	125	6	1.61	1.37	40
Crip 14	Rock	<5	1.3	5.61	<5	2618	<2	0.73	<0.5	3	89	8	1.75	2.27	30
Crip 15	Rock	14	1.8	8.17	<5	1562	<2	0.16	<0.5	9	765	266	8.73	2.75	24
Crip 16 A	Rock	10	1.4	5.14	<5	1372	<2	0.06	<0.5	2	85	6	1.41	0.69	30
Crip 16 B	Rock	12	1.1	6.66	<5	1354	<2	0.07	<0.5	7	176	33	3.15	1.85	39
Crip 18	Rock	10	1.7	5.67	<5	4313	<2	0.14	<0.5	5	222	29	2.14	2.30	26
Crip Pit 1	Rock	1257	1.7	0.20	<5	222	<2	0.01	<0.5	2	241	15	0.27	0.06	<10
Crip Pit 2	Rock	10	1.7	2.81	34	1520	<2	0.11	<0.5	5	295	13	1.57	0.89	13
Crip Power P	Rock	16	1.2	7.06	<5	1988	<2	0.61	<0.5	4	141	4	1.60	2.96	32
Crip-Alteration	Rock	23	3.2	8.26	360	1756	<2	0.08	<0.5	18	1440	116	3.46	1.12	17
HRS 1	Rock	9	2.0	7.70	<5	747	<2	1.72	<0.5	18	96	5	3.24	0.92	52
HRS 2	Rock	6	0.8	6.75	<5	2318	<2	1.20	<0.5	3	180	3	1.89	2.54	48
HRS 3	Rock	113	8.2	5.62	<5	85	14	4.95	<0.5	8	131	101	8.31	2.53	54
HRS 4	Rock	26	2.8	1.09	<5	104	<2	3.79	<0.5	91	154	86	7.42	0.36	38
HRS 5	Rock	23	1.5	7.74	<5	42	<2	1.52	<0.5	17	86	13	2.49	0.13	56
DC-1 (M01)	Rock	45	1.7	5.49	<5	1495	<2	0.92	<0.5	8	195	25	2.43	1.87	27
TLM-4	Rock	6	1.8	0.44	<5	27	<2	>10	<0.5	45	1340	75	3.34	<0.01	28
TLM-2	Rock	20	1.6	0.40	<5	17	<2	0.38	<0.5	83	1578	34	6.24	<0.01	<10
R1M	Rock	<5	1.3	8.29	<5	931	<2	0.47	<0.5	8	76	13	1.11	0.87	52
R3M	Rock	8	7.8	0.24	<5	184	17	0.02	<0.5	2	169	11	0.47	0.09	<10
R4M	Rock	13	30.6	4.22	264	2231	71	0.02	<0.5	2	181	8	1.09	2.65	25

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		Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	V	W
		30-4A-TR	30-4A-TR	30-4A-TR	30-4A-TR	30-4A-TR	30-4A-TR	30-4A-TR	30-4A-TR	30-4A-TR	30-4A-TR	30-4A-TR	30-4A-TR	30-4A-TR	30-4A-TR
Sample	Sample	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
Description	Type	0.01	5	1	0.01	1	10	2	5	1	1	0.01	10	1	10
RZ-12	Rock	0.71	171	6	0.98	<1	348	21	<5	<1	49	0.15	<10	28	<10
CC-1	Rock	0.55	395	4	2.28	<1	314	257	<5	<1	57	0.08	<10	21	<10
CC-2	Rock	0.03	33	2	0.22	<1	70	7	<5	<1	6	<0.01	<10	2	<10
CC-3	Rock	1.49	605	3	3.72	<1	693	5	<5	<1	100	0.43	<10	92	<10
KS-1	Rock	1.01	522	5	2.01	<1	874	>10000	<5	<1	62	0.31	<10	55	<10
KS-2	Rock	0.79	474	20	1.11	<1	496	>10000	<5	<1	30	0.13	<10	30	<10
Cariboo	Rock	1.77	549	4	4.18	<1	839	75	<5	<1	116	0.48	<10	136	<10
Crip 1	Rock	0.58	102	3	2.38	<1	196	21	<5	<1	49	0.14	<10	14	<10
Crip 2	Rock	0.65	77	3	2.24	<1	118	<2	<5	<1	38	0.14	<10	12	<10
Crip 3	Rock	0.26	119	5	3.49	<1	174	17	<5	<1	139	0.13	<10	10	<10
Crip 4	Rock	1.05	132	3	1.28	<1	128	14	<5	<1	93	0.13	<10	10	<10
Crip 5	Rock	0.25	66	2	2.99	<1	67	11	<5	<1	33	0.07	<10	6	<10
Crip 6	Rock	0.77	99	16	0.79	4	782	<2	<5	<1	29	0.14	<10	258	<10
Crip 7	Rock	0.48	64	3	2.23	<1	35	11	<5	<1	59	0.13	<10	10	<10
Crip 8	Rock	7.28	376	5	0.25	166	795	<2	12	3	43	0.11	<10	204	<10
Crip 9	Rock	0.71	205	3	3.21	<1	323	5	<5	<1	191	0.21	<10	23	<10
Crip 10	Rock	0.76	248	3	0.02	<1	75	8	<5	<1	1263	0.05	<10	5	<10
Crip 11	Rock	0.19	114	4	3.18	<1	263	23	<5	<1	220	0.15	<10	18	<10
Crip 12	Rock	0.93	135	3	1.36	<1	52	8	<5	<1	124	0.08	<10	9	<10
Crip 13	Rock	0.86	117	3	1.56	<1	42	14	<5	<1	145	0.11	<10	9	<10
Crip 14	Rock	1.06	123	3	0.81	<1	131	4	<5	<1	101	0.11	<10	9	<10
Crip 15	Rock	2.07	138	4	1.56	40	94	<2	8	<1	95	0.09	<10	101	13
Crip 16 A	Rock	0.54	114	4	3.44	<1	185	<2	<5	<1	29	0.04	<10	4	<10
Crip 16 B	Rock	1.70	258	4	1.81	<1	447	<2	<5	<1	32	0.18	<10	90	<10
Crip 18	Rock	1.31	85	12	0.59	<1	438	15	<5	<1	51	0.17	<10	196	<10
Crip Pit 1	Rock	0.02	30	1	0.02	<1	34	7	<5	<1	9	<0.01	<10	16	<10
Crip Pit 2	Rock	1.90	155	4	0.01	4	522	<2	<5	<1	9	0.09	<10	77	<10
Crip Power P	Rock	0.66	192	3	2.10	<1	274	11	<5	<1	157	0.16	<10	16	<10
Crip-Alteration	Rock	2.07	150	13	0.27	83	1001	113	15	<1	52	0.24	<10	199	<10
HRS 1	Rock	2.29	324	4	4.33	<1	1365	59	<5	<1	219	0.48	<10	56	<10
HRS 2	Rock	1.10	253	4	1.17	<1	253	64	<5	<1	118	0.10	<10	11	<10
HRS 3	Rock	2.06	349	8	0.09	<1	4497	470	<5	<1	141	0.07	<10	55	<10
HRS 4	Rock	1.35	779	6	0.01	<1	387	72	<5	<1	94	0.05	<10	5	<10
HRS 5	Rock	1.74	499	4	5.61	<1	259	41	<5	<1	146	0.06	<10	10	<10
DC-1 (M01)	Rock	1.18	490	3	2.12	<1	420	20	<5	<1	50	0.16	<10	20	<10
TLM-4	Rock	>10	2498	<1	<0.01	918	<10	5	9	<1	407	<0.01	<10	5	<10
TLM-2	Rock	>10	1467	<1	<0.01	1555	<10	<2	11	<1	21	<0.01	<10	14	<10
R1M	Rock	0.67	135	4	6.55	<1	673	7	<5	<1	221	0.15	<10	26	<10
R3M	Rock	0.07	46	1	0.02	<1	21	127	<5	<1	4	<0.01	<10	3	<10
R4M	Rock	0.64	101	3	0.16	<1	27	1384	<5	<1	14	0.04	<10	7	<10

Other sample results on these pages are from the Dominion claims. See CAu report 2010.

Regional Geology

From a paper outlining results of a detailed structural investigation of regional-scale faults in the northern and central Klondike District during the 2007 field season:

"Due to the generally poor exposure in the area, this study focused on a few key exposures in lower Bonanza Creek in the northern Klondike District, and some recent exploration trenches and road cuts in the central Klondike District.

This work was carried out as part of a regional study of the entire Klondike District and adjacent Indian River area done by J. Mortensen, D. MacKenzie and D. Craw (work in progress-at the time) that is being funded by Klondike Star Mineral Corporation."

Thrust faults

"Regional-scale thrust faults form the boundaries between the major lithologic units o the Klondike District (Figs. 1 and 2). The Klondike Schist occurs at the top of the thrust stack in at least three different thrust slices separated by major thrust faults (Figs. 1 and 3**). In lower Bonanza Creek, an additional thrust fault cuts the northern Klondike Schist slice at Cripple Hill,** indicating that there may be other, still unrecognized, thrust slices within the unit.

Two thrust slices of Finlayson assemblage (Nasina facies) rocks underlie the Klondike Schist and these Finlayson slices are separated by a thrust slice of greenstone and discontinuous lenses of serpentinite.

At a regional scale, the faults bounding the slices are observed to be low-angle thrusts that separate the major lithologic units along widely spaced outcrops. At an outcrop scale, these faults are locally steepened and overprinted by later crosscutting structures. In a few places, the thrust faults are marked by lenses of sheared ultramafic rocks (Fig. 1) that typically pinch out along strike. Small isolated occurrences of sheared ultramafic rocks (serpentinite and/or talc schist) also occur locally within the Klondike Schist and are commonly associated with layers of strongly deformed carbonaceous schist (e.g., Lone Star ridge, Fig. 1; Boulder Creek and **Cripple Hill; Fig. 2**). All thrust slices are affected by a similar set of structures related to thrust emplacement. This set of structures comprises primarily post-metamorphic ductile folds and locally, a spatially associated late-stage phacoidal cleavage. In the Klondike Schist, these folds are designated F3 (MacKenzie et al., 2007) because they demonstrably overprint and deform the pervasive metamorphic foliation and F 1 and F2 folds transposed along it.

In this study, we use standard structural notation correlated for structures in the Klondike Schist, as these schist's are the principal focus of our study. We project the same nomenclature and structural designator into the underlying structural slices for convenience, although we accept that this projection may turn out to be an oversimplification.

For example, the metamorphic foliation in the Finlayson assemblage carbonaceous schists is similar to that of the Klondike Schist (designated S2), but is defined by much finer grained micas (<100 μm) than in Klondike carbonaceous schists. Thus it may have formed under a relatively lower grade of metamorphism and not correspond to the second phase of deformation in the Finlayson assemblage. As a further example, the greenstone thrust slice and serpentinite lenses of the Slide Mountain terrane are locally foliated over several metres near the thrust, but are generally unfoliated further away.

The foliation in these units is a thrust-related fabric that corresponds to F3 and S3 in Klondike Schist. The F1 and F2 events that produced the dominant ductile recrystallization fabrics within the Klondike Schist and Finlayson assemblage are interpreted to have formed in latest Permian time, considerably before the thrust faultir that imbricated the entire package.

MACKENZIE ET AL. – THRUST SLICES AND DEFORMATION, KLONDIKE GOLDFIELDS

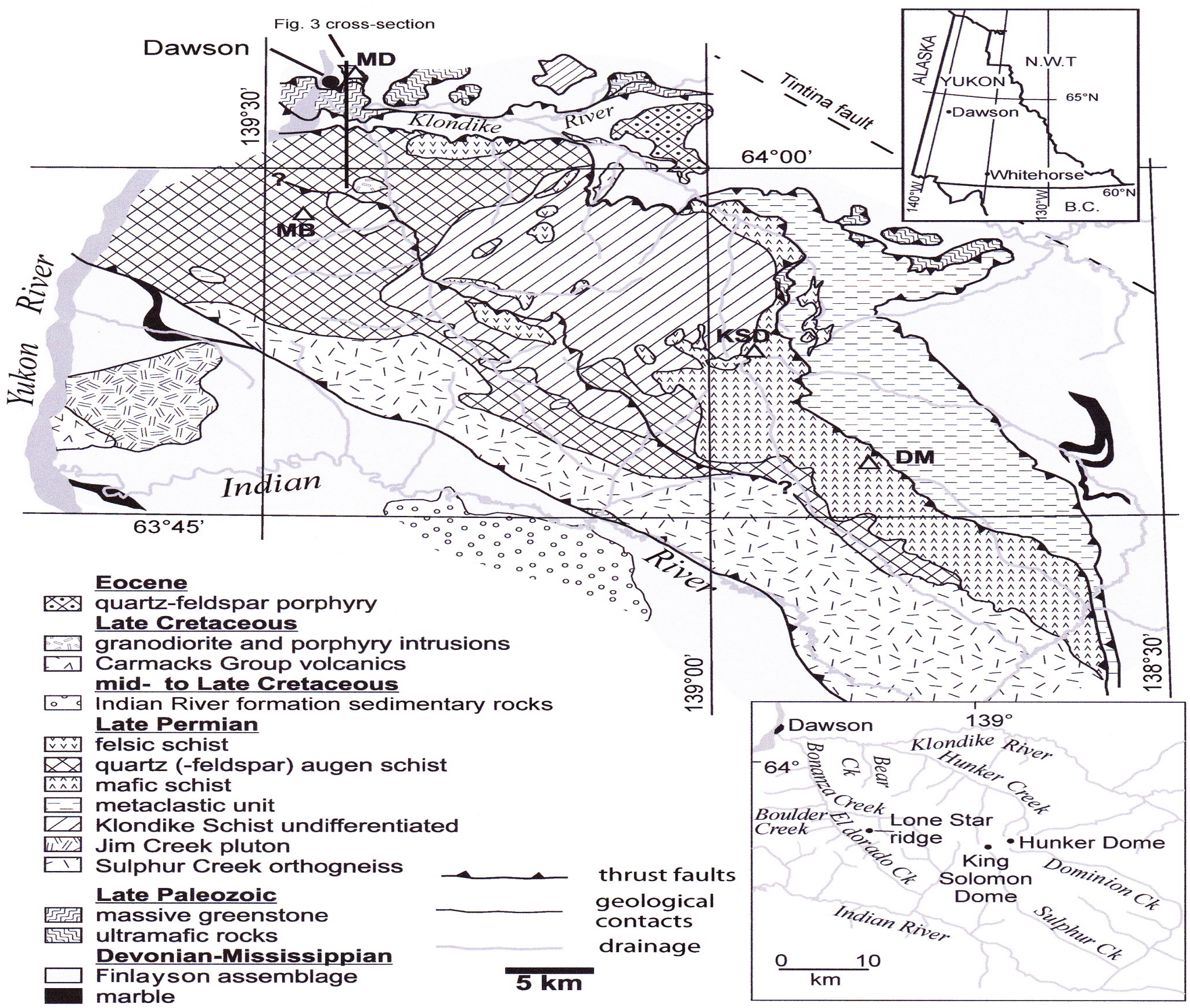


Figure 1. *Geological map of the Klondike District, central western Yukon (after MacKenzie et al., in press). KSD = King Solomon Dome; MD = Midnight Dome; DM = Dominion Mountain; MB = Mount Bronson. Top right inset map outlines the study area within Yukon, while bottom right inset map depicts the major drainages and physiographic features in the study area.*

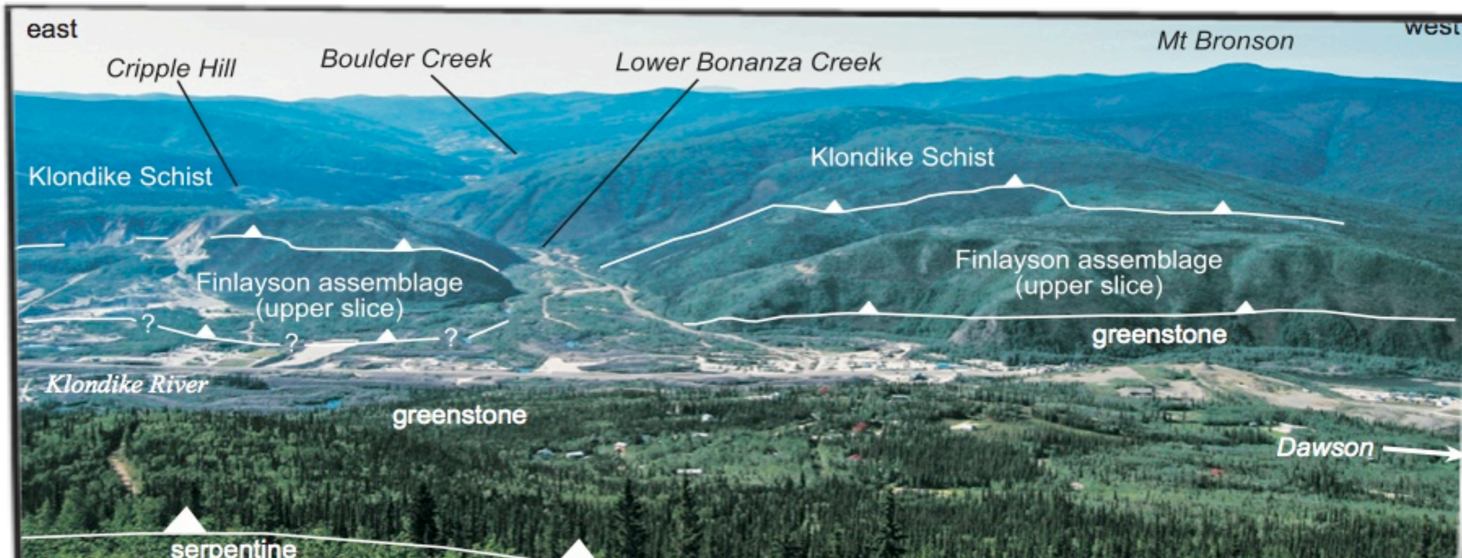
YUKON EXPLORATION AND GEOLOGY 2007

It is uncertain whether the Slide Mountain terrane experienced these two earlier deformation events. Hence, although the thrust-related ductile folds are designated F3 in the Klondike Schist and all of the other slices, folds designated as 'F3' in the Slide Mountain units may actually result from the first or second phase of deformation that affected the Slide Mountain terrane.

Post-metamorphic F3 folds affect all the thrust slices and are best developed near thrust faults (within 100 m). The folds typically have rounded hinges, and in schist, form crenulations in the metamorphic segregations. Where the folding is most intense, in the hinges of macroscopic folds.

F3 folds and S3 spaced cleavage increase in intensity near Cripple Hill (Figs.2 and 3) where a thrust fault in Klondike Schist is locally exposed. The fault zone is delineated by near (<100 m) the unexposed contact with Klondike Schist in lower Bonanza Creek. The fine wavy metamorphic laminations (left to right) are crosscut by a well developed S3.

Thrust-related structures are locally overprinted by a set of F4 kink folds with a more brittle style than F3 folds. The kink folds occur locally in the Finlayson assemblage, but are most prominent in Klondike Schist. Kink fold axial surface fractures crosscut the metamorphic foliation at high angles and are locally filled by quartz. **Quartz veins in Finlayson assemblage sampled at lower Bonanza Creek assayed below detection level (<5 ppb) for Au, but gold-bearing veins hosted in similar structures are widely dispersed in the Klondike Schist**. The main stage of gold mineralization occurred during, or after F4 kink folding and therefore after major regional compression and thrust stacking. Normal faults offset gold-bearing veins and crosscut F3 and F4 structures. The main phase of gold mineralization was localized into post-metamorphic compressional structures in the Klondike Schist after the rocks were uplifted through the brittle-ductile transition and before extensional normal faulting."



igure 2. Photograph of Bonanza Creek looking south from Midnight Dome (Fig. 1). The main thrust-fault contacts eparating Klondike Schist, Finlayson assemblage, and greenstone and serpentinite of the Slide Mountain terrane are ndicated by white lines with ticks on the upthrown side.

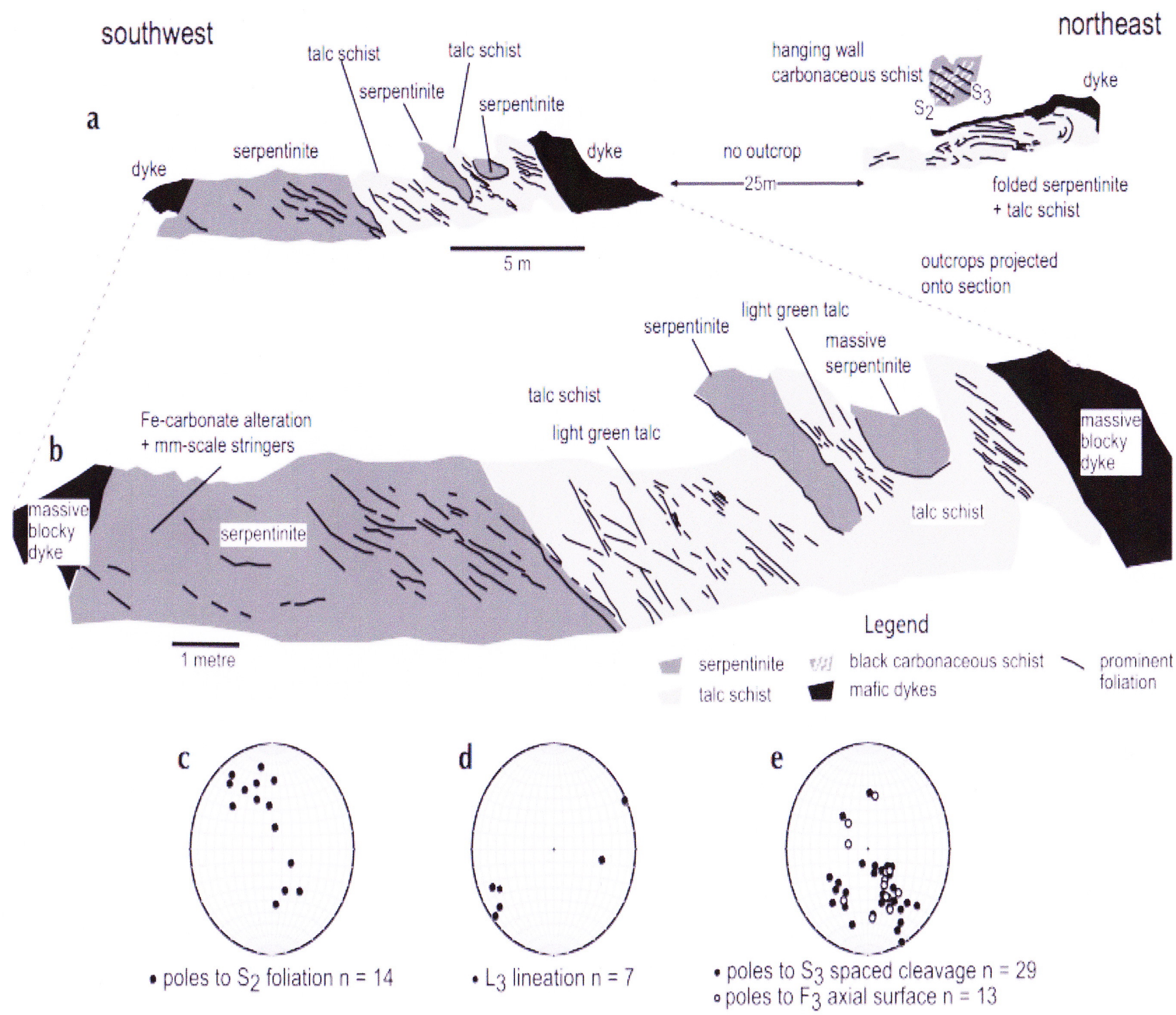


Figure 9. Sketch of road cut in placer workings at Cripple Hill (a) and detailed section (b) through the Cripple Hill thrust based on field sketches and photographs. Outcrops on the northeast end are projected onto section from an opposite face along an adjacent road cut. The zone is composed primarily of folded serpentine and talc schist intruded by several igneous dykes. Black carbonaceous schist in the hanging wall (locally interlayered with more quartzofeldspathic schist) delineates the relationship between S_2 metamorphic foliation (white lines) and S_3 spaced cleavage (black lines). Lower hemisphere equal-area stereonets for the area depict (c) poles to S_2 foliation in host schist, (d) L_3 crenulation lineations and (e) poles to F_3 axial surfaces and S_3 spaced cleavage.

*~Knight, J.B., Mortensen, J.K. and Morison, S.R., 1999. Lode and placer gold compositions from the Klondik
District, Yukon Territory, Canada: Its implications for the nature and genesis of Klondike placer and lode gold deposits.

~Economic Geology, vol. 94, p. 649-664. Lebarge, W.P., 2007. Yukon Placer Database – Geology and minin
activity of placer occurrences. Yukon Geological Survey, CD-ROM.

Lowey, G.W., 2005.

~The origin and evolution of the Klondike goldfields, Yukon, Canada. Ore Geology Reviews, vol. 28, p. 431-4

MacKenzie, D.J., Craw, D.C., Mortensen, J.K. and Liverton, T., 2007.

~Structure of schist in the vicinity of the Klondike goldfield, Yukon. In: Yukon Exploration and Geology 2006, D.S. Emond, L.L. Lewis and L.H. Weston (eds.), Yukon Geological Survey, p. 197-212.

“The Cripple Creek district, in the southern part of the Front Range, about 20 miles southwest of Colorado Springs, is one of the most famous gold camps in the world. The ore deposits include veins or fissure fillings, irregular bodies due to mineralization of shattered ground, and mineralized collapse breccia. Deposits of all three groups have the same general mineral composition and show no consistent change in composition down to the lowest levels exposed.

Stages of ore deposition - The ore deposits were derived from the same general source as the dikes and like them were formed in several stages. Three stages of mineralization have been recognized. It is noteworthy that although quartz, fluorspar, and pyrite belong to all stages, their appearance differs in each stage. Other minerals, if present in more than one stage, are conspicuous only in ore.

The first stage was characterized mainly by local intense corrosion of country rock and deposition of quartz and adularia and massive aggregates of dark-purple fluorspar and quartz with comparatively coarse grained pyrite. The quartz and adularia occur both as dense masses locally called jasper and as coatings in vugs in corroded or honeycombed granite. The constituents of the quartz-adularia aggregate may have been derived from corrosion of granite and volcanic rocks at great depth, with re-deposition at higher levels. The large amount of fluorine, however, represented by the dense fluorspar, and the sulfur, represented by pyrite, were most probably original constituents of the rising solutions.

Some bodies of honeycombed granite, chiefly in the Portland, Ajax, and Elkton mines, were later permeated by telluride solutions and became rich ore, but others were not reached by the tellurides and are almost barren. The veins of dense fluorspar and quartz are as much as 2 feet thick but are barren except where fractured and veined by later minerals. In places they form an apparently unconnected step like succession of lenticular veins. Some of them are very thin but persist for considerable distances. They have been noted rarely outside the breccia area and the major shear zones in the adjacent granite.

Except that adularia is lacking, the minerals of the second stage include those of the first but differ from them somewhat in appearance. The fluorspar is usually a lighter purple, the quartz is milky to somewhat smoky, and the pyrite is fine-grained and inconspicuous. Other minerals common to this stage are dolomite or ankerite in small rounded crystals, celestite, and the tellurides.

The most common telluride is calaverite, but considerable sylvanite and krennerite are also present. The term sylvanite is frequently applied by the miners to silvery calaverite and the term calaverite to yellowish or slightly tarnished crystals, fine-grained aggregates of which may be confused with fine-grained pale-yellow pyrite. Other tellurides, which are found in small quantity are petzite, hessite, and a silver-copper telluride. The silver-copper telluride was found in considerable quantity in the Findlay vein above level 16 of the Vindicator mine. It seems probable that much of the material called gray copper by the miners but which contains as much as 2,000 or

3,000 ounces of silver to the ton may be partly or wholly silver-copper telluride. Grains or wires of free gold accompany the tellurides in places to a depth as great as 2,900 feet'

Roscoelite, the vanadium mica, is found in places as small soft drusy masses and locally adds a green coloring matter along the edges of the veins or in inclusions. A little barite and small quantities of the base-metal sulfides, principally sphalerite, galena, and tetrahedrite, have been found. The second-stage minerals occur mostly in open though narrow cracks and in vugs. In the Cresson mine rocks with a green roseoelite stain, delicate crystals of celestite, and conspicuous amounts of sulfide are supposed to be fair indications of a nearby ore shoot, but elsewhere the same minerals have been found without leading to any ore shoot. For the most part the solutions of the second stage merely filled or lined cavities with minerals that may have been derived by corrosion of the walls of the conduits in or below the crater. The mineral assemblage of this stage suggests a moderate to rather low temperature. Deposition of tellurides, which marked the end of the second stage, indicates the accession of primary magmatic constituents.

The third stage is represented chiefly by smoky to colorless quartz in small to large drusy crystals and by yellow druses of chalcedony. Fine-grained pyrite occurs in thin radiating needles resembling marcasite and in small drusy patches of pyritohedrons. Calcite occurs in small scalenohedrons, and locally cinnabar fills coatings on or near the pyrite. Rarely minute grains of fluorspar are present in barren places and cannot be regarded as a likely indication of ore. Quartz of the third stage has in places replaced celestite, dolomite, and calcite.

The third stage of deposition was comparatively insignificant. It included at least one substage in which solutions were still rising from a volcanic source, but in others the solutions may have been of superficial origin. The presence of cinnabar indicates rising solutions; the quartz, calcite,and fine-grained pyrite may be supergene but are probably also hypogene. The crusts and minute stalactites of chalcedony in vugs have evidently been deposited by meteoric water."

References:

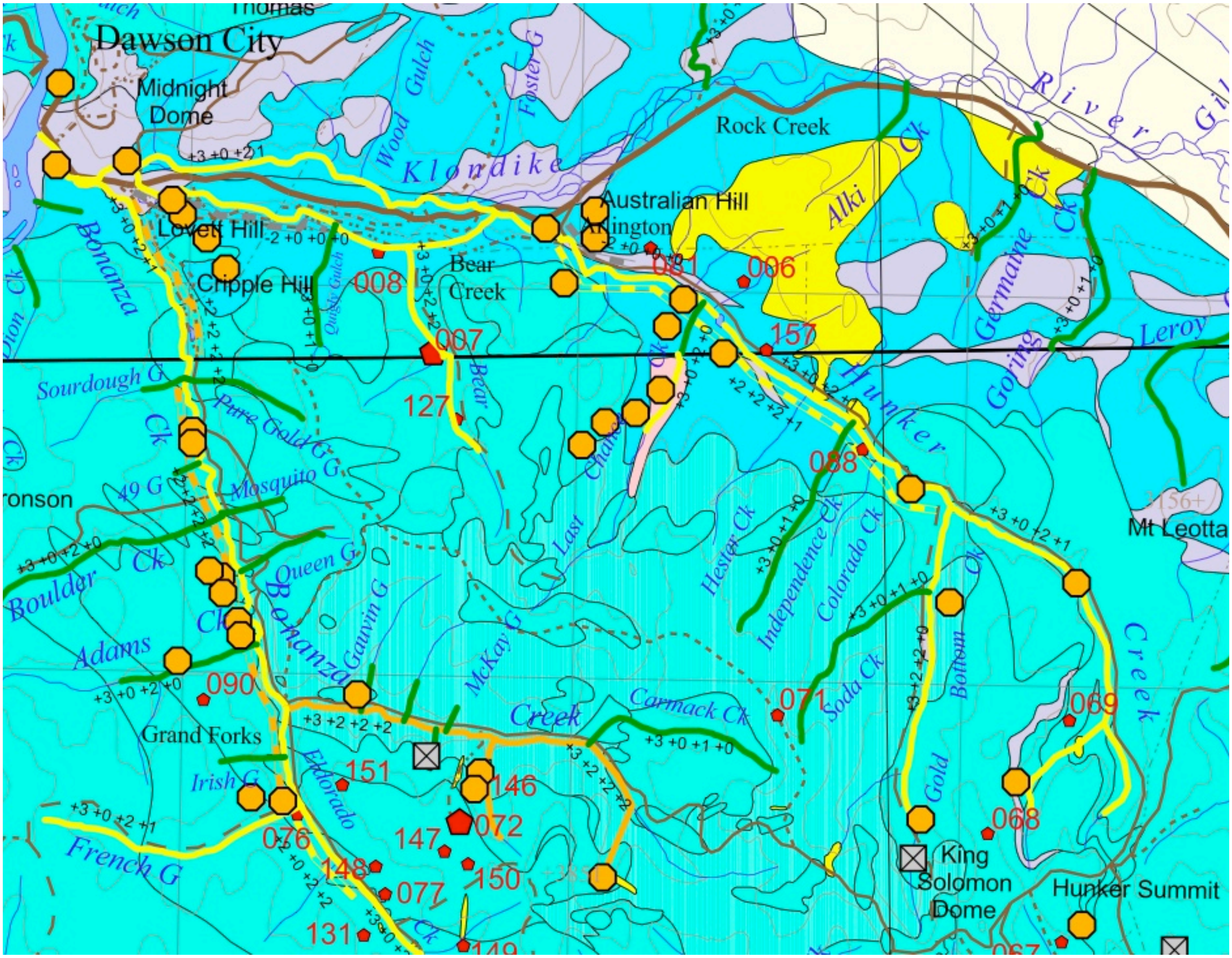
U.S. Geological Survey Professional Paper 223

Carnein C.& Bartos P. (2005): The Cripple Creek Mining District Colorado Mineralogical Record 36:2 pp 143-185.

Tschernich, R. (1992): Zeolites of the World, 65
U.S. Geological Survey Professional Paper 54

Crushing & Pulverization Tools. Capacity 2 tons of rock an hour.

Crushing and pulverization equipment utilized to recover specimens pictured from CripPit. (Some assaying will not capture "visible" gold unless special request is made for large mesh). This method helps to target sample zones in a more economic and reliable way while prospecting.



SEDIMENTARY/VOLCANIC:

- Qs - Quaternary cover beneath which terrane boundaries cannot be extended with confidence
- TQv - largely basalt (Tertiary(?) and Quaternary)
- Tvs - Tertiary felsic to mafic volcanic rocks and interbedded terrestrial sedimentary rocks
- uKv - Upper Cretaceous mafic and lesser felsic volcanic rocks, mostly Carmacks Group
- JKs - Jurassic and Lower Cretaceous sedimentary rocks overlapping Wrangellia and Alexander terranes (Dezadeash); minor contemporaneous fluvial sedimentary rocks above Stikinia (Tantalus)

CRATON MARGIN:

- NA - ANCESTRAL NORTH AMERICA: Lower Proterozoic to Carboniferous passive and offshelf continental margin sedimentary rocks, Devonian to Carboniferous clastic wedges and Pennsylvanian to Jurassic-Cretaceous continental margin prism

TERRANES:

PERICRATONIC: rocks possess elements of passive margin sedimentation but differ in stratigraphic or structural characteristics from the ancestral North American margin

- YTNA - NASINA SUBTERRANE: Metamorphosed early(?) to mid-Paleozoic continental margin with superposed Late Devonian and Early Mississippian arc volcanic (=Nasina assemblage) and (YTp) plutonic rocks
- YTKS - KLONDIKE SCHIST SUBTERRANE: Metamorphosed upper Paleozoic arc(?) volcanic (=Klondike Schist assemblage) and plutonic (YTp) rocks
- YTa - AMPHIBOLITE SUBTERRANE: Amphibolite of uncertain subterrane affinity; may include Slide Mountain Terrane
- YTp - Plutonic rocks superposed on Nasina and Klondike Schist Subterranes

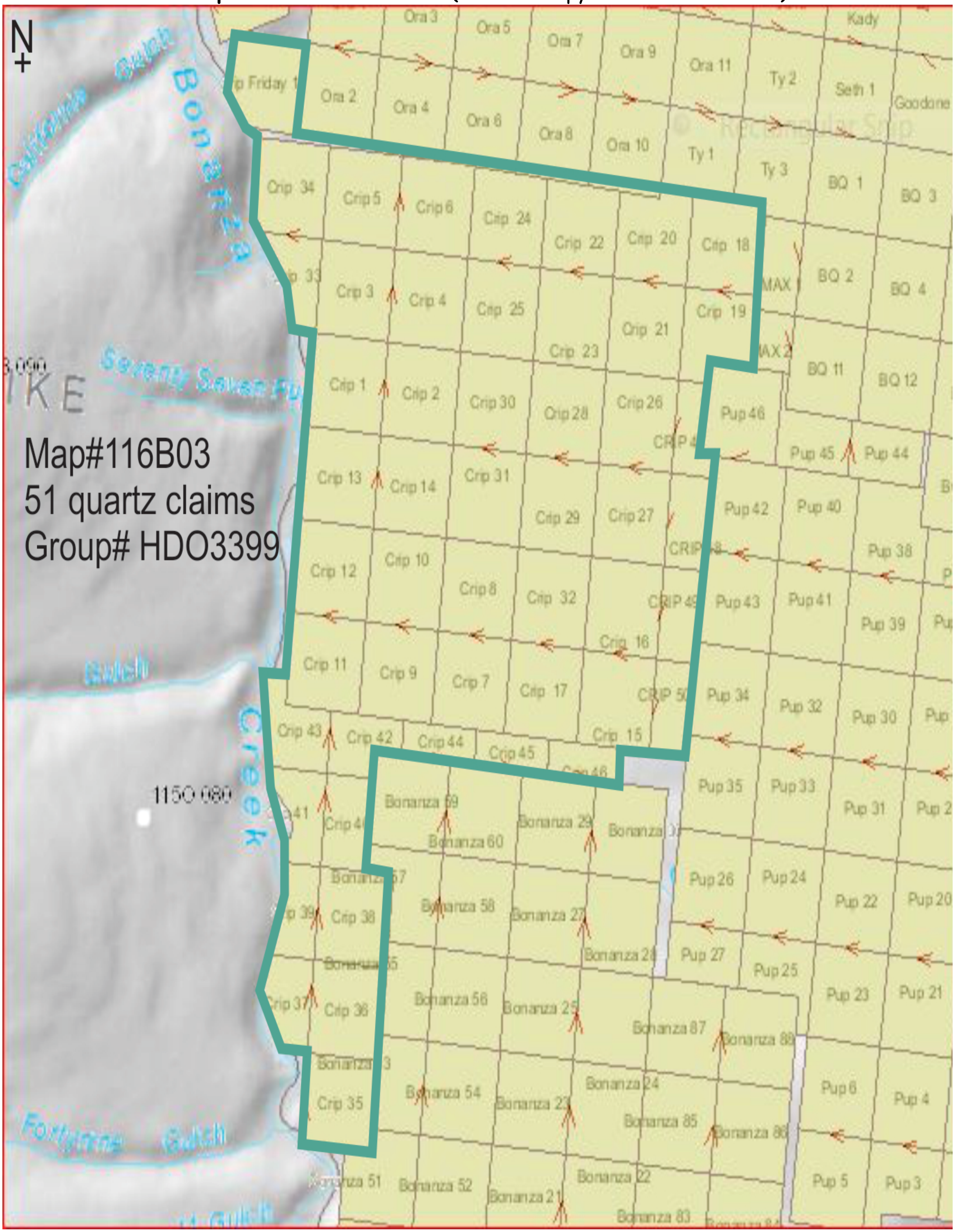
ACCRETED, INTERMONTANE SUPERTERRANE:

- SM - SLIDE MOUNTAIN: Oceanic and/or marginal basin volcanic and sedimentary rocks of Devonian to Late Triassic age including chert, argillite, sandstone, conglomerate, mafic intrusions, basalt, alpine-type ultramafic rocks, carbonate rocks and local blueschist and eclogite

Mining Inspection Division, 1998. Yukon Placer Industry 1995-1997. Mineral Resources Directorate, Yukon Region, Indian and Northern Affairs Canada, 173 p.

Stewart River Resource Placer Project Appraisal Map, 2002. G.W. Lowey, S.Deforest, P. Lipovsky; Yukon Geology Program and Minfile Occurances.

Maps 116B03 & 115O14 (current copy from EMR website).



Currently 51 claims ~ 1,020 hectares.

Trail Gulch. Bands of graphite faults and bedrock visible throughout the white channel remnants.

Trail Hill

Area of Trail Hill where "Cam's Vein" uncovered, at base of the gravel "cliff".

Not resampled as planned 2011, in favor of a more general properl prospect. Still a target with a 1.26gram/ton Au assay result and visible gold from hard-rock. Claim Crip3.

Hoe work target, quartz stringers visible in graphitic outcrop top right. Iron Q area, south-west of CAM Vein. Outcrop details below.

Sampling of Trenches by Dave Algotsson- (See invoice attached for hoe work to April 21st, 2011 renewal certificate). 5 test pits done at **IronQ** to max depths of 3 meters. No samples sent for assay. As, though heavily pocketed & containing sulfides, quartz was weathered and appeared barren.

Rusty quartz running through graphite. IronQ.

Oxidized sulfides and iron stained pocketed quartz stringers. IronQ.

IronQ. Trench 4. Yellow/white powder coated graphite with quartz and orange oxidation.

Hand trenched area north of IronQ (southwest of “Cam’s Vein”) on **Trail “Pit**”. Claim **Crip3**
TRP trenches 1-5. Contact of carbonate with listwanite.

Listwanite, (talc altered serpentine) as analyzed by (PGeo) Chris Ash, (MSc-Ultramafic geology).

"Listwanites are found where CO_2 rich hydrothermal fluids encounter serpentinized ultramafic rocks and form predominantly iron magnesium carbonates +/- quartz veins that are potentially associated with gold mineralization. Where carbonatiztion is accompanied by alkalai metasomatism, the bright green chrome-rich mica, mariposite(fuchsite), also occurs. Listwanite alteration is primarily developed in fault zones that serve as channel-ways for circulating fluids. These zones are easily recognized in the field by their characteristically bright orange-brown weathering which stands out against a background of dark green to black serpentine." [2]

Buckman, S. & Ashley, P. (2010). Silica-carbonate (listwanites) related gold mineralisation associated with epithermal alteration of serpentinite bodies. New England Orogen 2010 (pp. 94-105). Armidale, NSW, Australia: University of New England.

“Goo” rock. Contact with the listwanite on TRP trenches.

Another area of vivid red & orange on claim **Crip5**. Soil sample **CRR30: ~ 18ppbAu**
Summer 2011 assay results, page 38.

HRS Crip30 Hard Rock Shaft Area

Samples taken from this pre-existing hard-rock shaft which tunnels at least another 5 meters into the hill, as we can see from the slump above where it caved in.

Green/blue sericite coated quartz are the tailings at the shaft entrance. Hand shafting, done the 28th July 2011, resulted in interesting orange/red quartz, shown in the following pictures

Hard Rock Shaft, Claim Crip30.

35 meters east of the Hard Rock Shaft. Green/calcite vein bordering blackened rock.

ACS samples. Directly above shaft. Morphed quartz, stained with orange and red. See pit descriptions for notes. Target for further hoe investigation 2012.

Area of Crip30 noted as **5HanTr** in sampling list, show very interesting contacts and formations over 100 meters of exposure. Balls almost of goethite structure and different sizes lie in heavily carbonitized and porous blackened decomposing rock. Next to a calcite/quartz body, next to a green decomposing and talcy listwanite area and so on. Further investigation will be done in this area based on assay results.

Summer 2011 Soil Sampling Locations & Results (July)

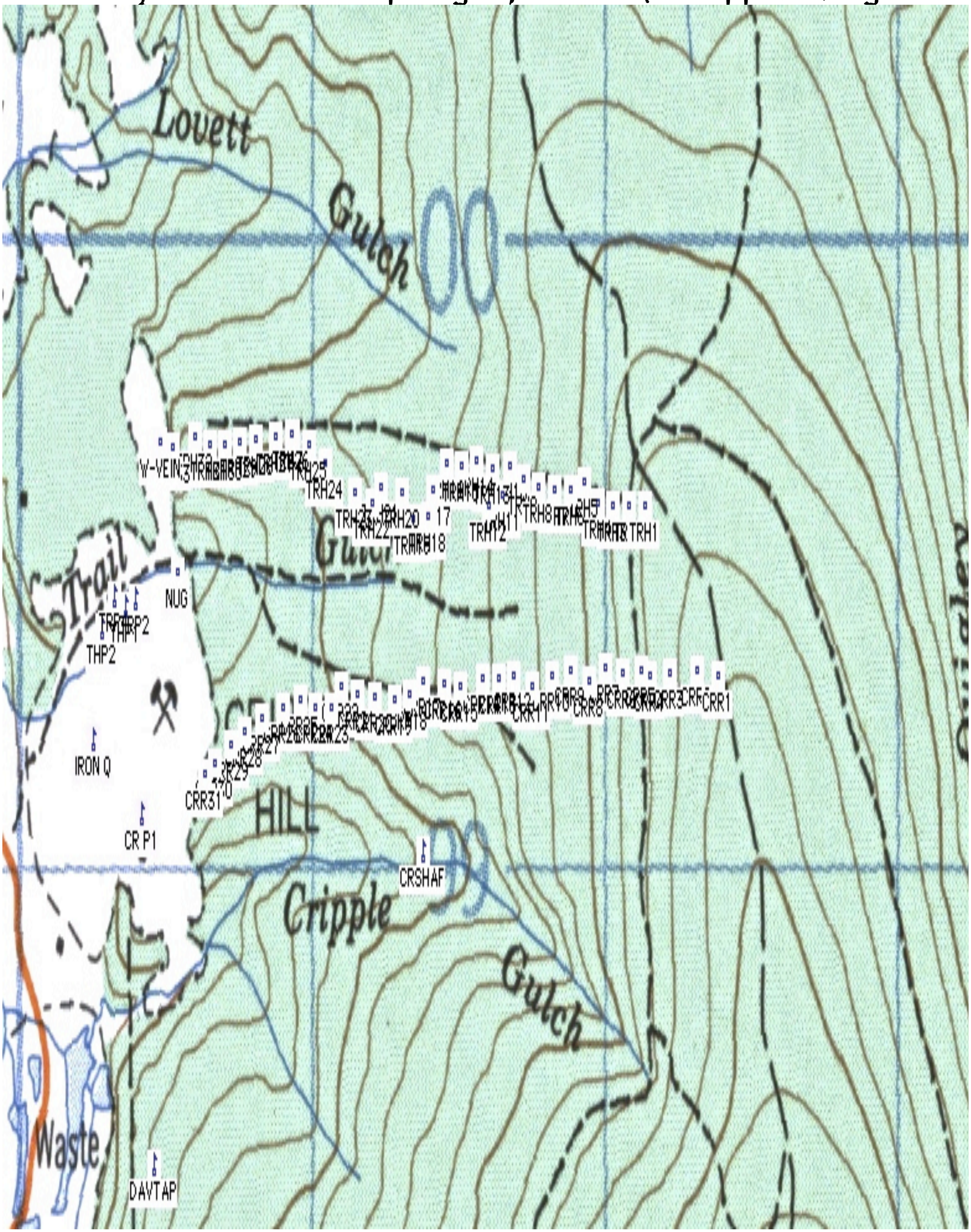
Soil sampling from Ridge trail to Trail Gulch. 2 people. *Claims:* **Crip 31,23,24,25 and 6.**

			Client:	routsas, Erini									
			File Create	41079									
			Job Numb	W12000001									
			Number of Sar	224									
			Project:	:AuCripFuc									
			Shipment ID:										
			P.O. Number:										
			Received	41043									
Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au
Unit		PPM	PPM	PPM	PPM	PPB	PPM	PPM	PPM	%	PPM	PPM	PPB
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2
		Molybdenum	Copper	Lead	Zinc	Silver		Cobalt	Manganease	Iron	Arsenic		
Sample	Type												
TRH-1	Soil	3.67	36.19	18.69	71.2	587	28.3	8.3	166	2.69	11.1	1.2	2.6
TRH-2	Soil	8.23	55.85	25.59	123.2	166	44.6	7.9	174	2.70	14.9	1.2	3.4
TRH-3	Soil	4.52	32.72	21.50	92.5	356	29.0	6.8	188	2.13	10.6	0.7	2.1
TRH-4	Soil	4.05	25.09	70.11	73.9	321	24.0	5.7	129	2.19	9.4	0.9	2.3
TRH-5	Soil	3.52	35.81	116.65	96.5	310	30.3	5.9	163	2.23	10.3	1.0	2.9
TRH-6	Soil	4.31	38.12	49.38	149.9	358	44.4	12.6	901	2.81	16.0	1.1	2.5
TRH-7	Soil	5.67	37.97	251.93	119.3	420	36.0	10.8	397	2.58	19.1	1.3	2.8
TRH-8	Soil	2.69	29.76	24.17	67.0	294	24.9	7.4	174	2.38	10.2	1.0	15.5
TRH-9	Soil	3.39	28.71	31.77	84.6	228	25.8	6.6	178	2.17	12.4	1.0	2.9
TRH-10	Soil	2.44	34.19	29.80	78.0	274	29.8	10.7	353	2.68	14.4	1.2	2.3
TRH-11	Soil	2.01	24.58	42.28	62.1	139	22.5	7.0	186	2.21	9.5	1.0	1.8
TRH-12	Soil	2.14	25.85	34.46	61.3	156	21.7	8.6	241	2.26	9.6	1.4	14.0
TRH-13	Soil	2.07	31.60	50.50	69.9	208	25.7	8.8	270	2.49	12.1	1.0	2.6
TRH-14	Soil	1.46	21.24	15.40	52.7	122	20.4	7.2	174	2.34	11.0	0.8	1.3
TRH-15	Soil	3.90	32.14	55.71	90.0	197	29.4	8.9	230	2.58	17.7	1.2	3.1
TRH-16	Soil	1.52	22.95	14.64	53.6	111	19.5	6.9	161	2.27	9.8	1.3	1.8
TRH-17	Soil	1.40	18.68	22.81	54.3	65	18.7	8.8	190	2.34	10.0	0.8	2.0
TRH-18	Soil	1.13	28.33	14.80	60.8	34	26.8	9.4	268	2.53	13.4	0.9	6.5
TRH-19	Soil	1.37	32.71	18.49	56.5	225	26.4	7.6	227	2.23	11.6	1.0	3.0
TRH-20	Soil	1.66	29.36	15.06	66.2	186	25.3	10.5	508	2.40	14.8	1.1	7.0
TRH-21	Soil	1.38	38.74	40.35	75.0	144	33.8	12.0	419	2.73	12.8	0.7	2.8
TRH-22	Soil	1.24	31.93	21.83	55.6	131	27.7	9.8	325	2.47	11.0	1.3	7.3
TRH-23	Soil	1.40	51.16	58.47	69.4	73	43.9	11.5	328	2.90	14.1	1.0	4.9

TRH-24	Soil	1.21	20.69	16.13	64.3	74	23.1	9.8	378	2.38	10.8	0.6	6.5
TRH-25	Soil	1.22	33.11	18.80	59.1	83	30.1	14.5	287	2.73	11.9	0.7	5.4
TRH-26	Soil	1.26	30.65	14.81	55.2	36	22.1	7.5	159	2.56	10.9	0.8	3.1
TRH-27	Soil	1.38	20.46	26.87	64.1	189	21.9	9.1	177	2.61	9.8	0.4	1.7
TRH-28	Soil	1.33	25.54	23.72	57.9	60	30.0	14.4	270	2.80	11.2	0.8	3.6
TRH-29	Soil	1.28	23.20	15.82	63.3	80	22.5	8.7	264	2.65	12.2	0.7	1.1
TRH-30	Soil	0.92	16.02	12.31	61.6	144	18.4	6.8	170	2.21	9.2	0.4	2.6
TRH-31	Soil	1.11	16.86	15.61	66.4	96	23.3	9.7	212	2.84	10.2	0.5	0.5
TRH-32	Soil	1.01	11.15	13.00	64.6	200	17.9	14.7	1000	2.32	7.0	0.4	1.2
TRH-33	Soil	0.84	16.73	15.98	51.1	46	15.1	5.6	119	1.72	8.0	0.8	0.5
WALL-VEI	Soil	0.37	4.99	36.45	6.4	69	0.8	0.2	2	0.08	3.2	1.5	3.3
CR/R-1	Soil	9.68	39.50	27.60	90.1	170	46.8	8.4	168	2.78	22.8	1.8	3.3
CR/R-2	Soil	4.58	35.36	16.71	78.8	286	31.0	6.7	173	2.41	17.6	1.0	1.8
CR/R-3	Soil	4.62	23.63	15.55	53.7	138	19.9	6.3	136	2.10	29.6	1.0	1.6
CR/R-4	Soil	4.50	22.54	16.67	58.5	128	20.1	7.4	144	2.30	38.4	1.1	2.2
CR/R-5	Soil	3.45	20.90	17.02	49.7	109	19.0	7.0	175	2.26	27.1	0.9	1.5
CR/R-6	Soil	2.33	16.92	12.72	46.6	122	16.4	6.0	158	2.01	12.1	0.8	1.4
CR/R-7	Soil	2.30	25.40	13.86	53.0	170	22.5	7.4	221	2.38	14.7	1.3	7.3
CR/R-8	Soil	1.77	25.03	13.06	56.1	127	20.8	7.0	233	2.26	13.4	1.1	1.9
CR/R-9	Soil	1.84	23.43	12.46	51.5	91	20.0	5.9	179	1.98	12.2	0.8	3.1
CR/R-10	Soil	1.83	15.55	11.71	48.2	87	16.1	5.4	129	2.03	10.4	0.8	5.4
CR/R-11	Soil	1.67	18.59	12.97	47.9	95	17.1	6.0	154	2.10	10.9	0.9	4.4
CR/R-12	Soil	3.12	28.02	18.65	72.5	230	26.9	11.0	461	2.73	18.8	1.0	9.5
CR/R-13	Soil	2.41	27.04	18.86	70.2	187	26.1	10.5	438	2.52	15.1	1.0	2.6
CR/R-14	Soil	1.71	26.31	13.81	63.5	136	21.3	7.6	247	2.38	12.5	1.3	6.4
CR/R-15	Soil	2.31	26.53	19.79	64.9	137	22.4	7.7	229	2.38	12.5	1.4	3.8
CR/R-16	Soil	2.24	25.06	15.65	57.4	128	20.5	6.9	206	2.29	13.2	1.5	1.8
CR/R-17	Soil	1.49	23.23	17.11	57.5	112	18.6	7.0	239	2.19	10.6	1.2	0.8
CR/R-18	Soil	1.50	29.85	18.05	61.6	106	26.1	8.9	356	2.57	10.5	1.1	2.6
CR/R-19	Soil	0.82	28.00	16.89	53.7	37	21.9	6.3	333	2.25	9.4	1.6	14.5
CR/R-20	Soil	0.73	22.36	17.00	77.5	50	17.0	7.8	402	2.25	6.1	1.3	0.9
CR/R-21	Soil	0.92	17.64	16.98	42.4	46	15.8	5.8	212	1.98	8.4	1.1	0.5
CR/R-22	Soil	1.85	17.58	21.45	63.1	67	13.6	6.1	256	2.25	10.0	2.5	0.7
CR/R-23	Soil	1.28	44.29	24.28	67.9	39	37.0	9.2	240	2.82	20.2	1.4	2.3
CR/R-24	Soil	1.24	45.97	25.46	70.3	51	36.9	8.9	210	2.85	25.3	1.9	2.2
CR/R-25	Soil	1.13	7.13	13.82	28.8	28	6.6	3.8	143	1.47	10.6	0.7	0.6
CR/R-26	Soil	0.95	15.85	10.87	31.0	35	15.3	5.5	129	1.50	9.4	0.5	4.9
CR/R-27	Soil	0.93	34.41	15.00	44.7	30	24.7	10.0	254	2.36	11.1	0.6	7.3
CR/R-28	Soil	0.93	21.40	12.17	43.0	68	22.8	8.4	131	2.22	9.5	0.7	3.4
CR/R-29	Soil	0.41	4.57	8.49	20.6	12	5.8	2.3	50	0.91	4.2	0.4	1.6
CR/R-30	Soil	0.44	9.11	11.29	32.0	33	7.5	3.0	69	1.05	5.6	0.4	18.9
CR/R-31	Soil	0.41	6.56	10.54	33.2	10	7.0	3.1	71	1.05	5.0	0.4	2.3
65 samples													

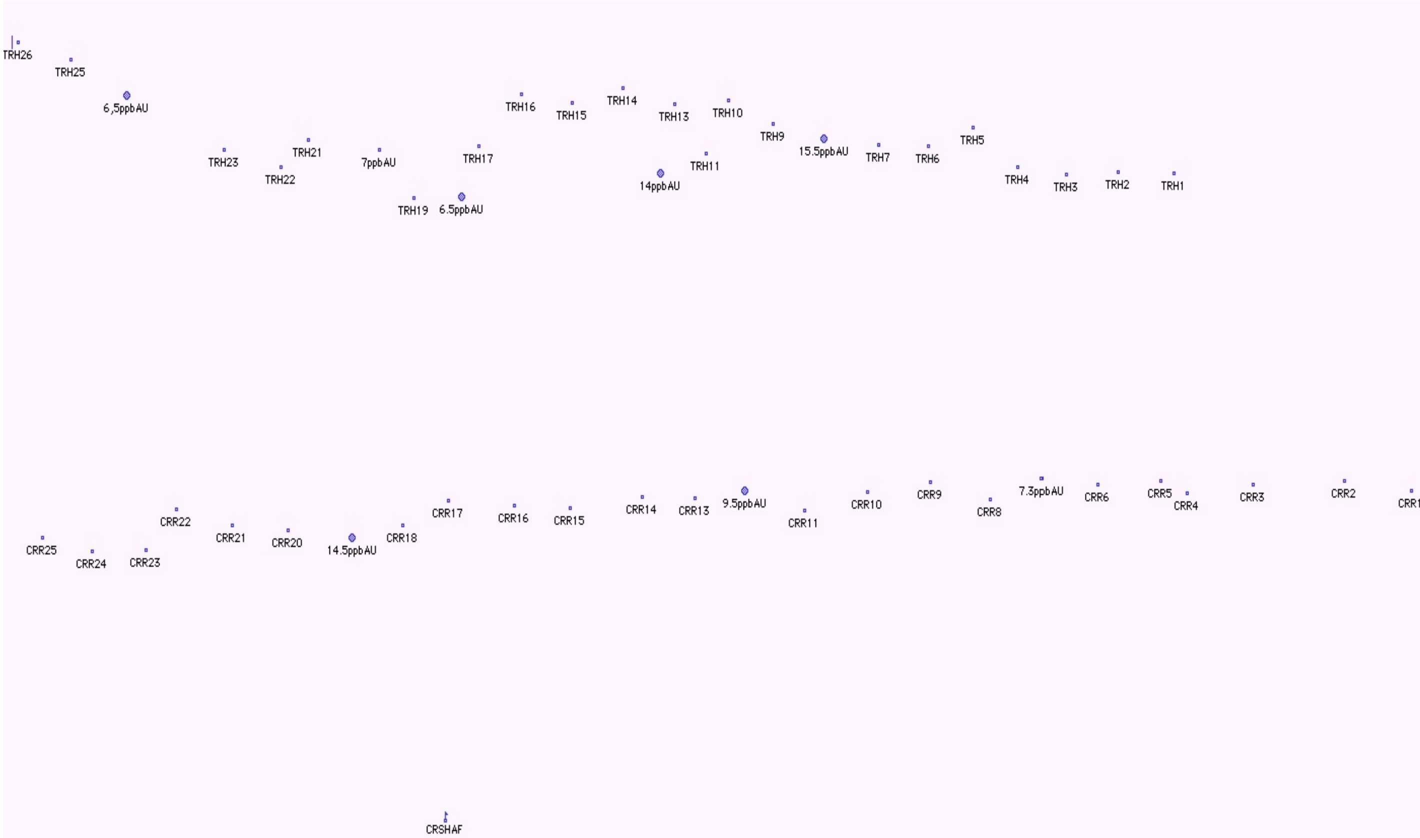
See page 57 for full certificates of Acme Labs; **Job#DAW12000001.1.** June15, 2012
Method Code: SS80 -1F05

July 2011 soil sampling of Trail & Cripple Ridges

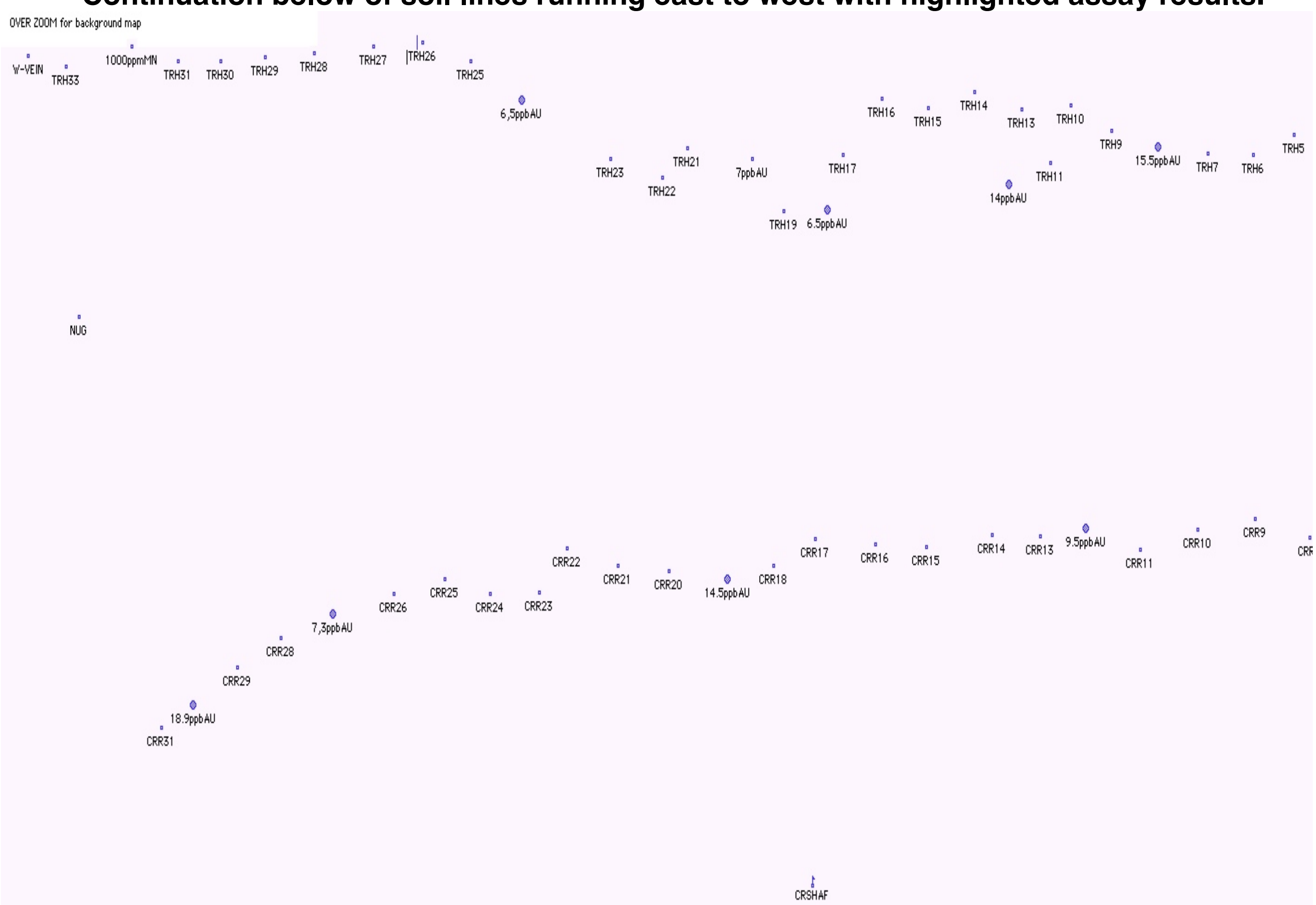


See following page for a blow up of soil lines **TRH** and **CRR**.

CR-Line runs down ridge of Cripple Hill. TRH-Line down ridge of Trail to "Cam's vein".



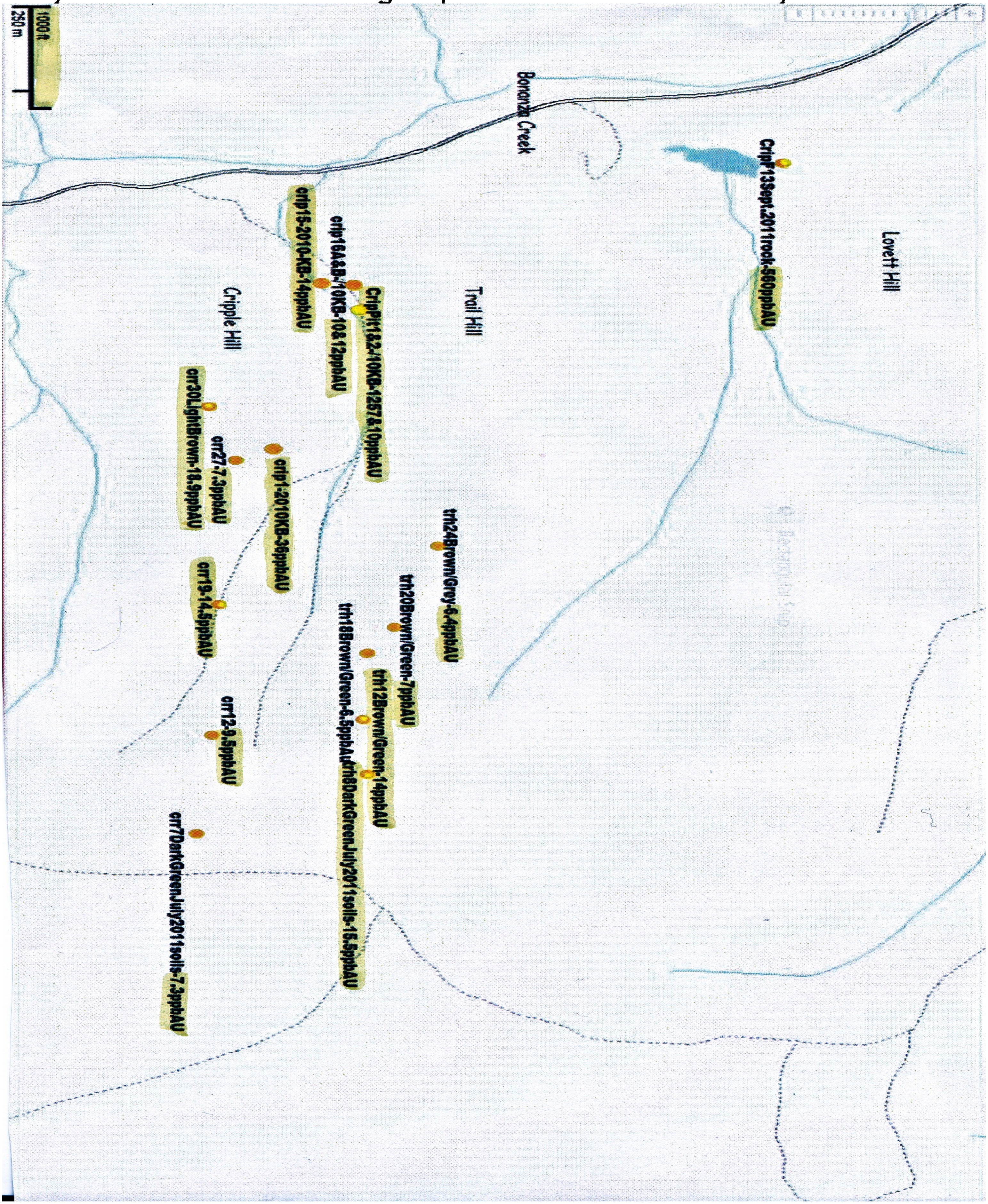
Continuation below of soil lines running east to west with highlighted assay results.



				Elevation	Soil Description & Sample Depth		
	UTM Cordinates			meters			meters
TRH1	07W	582127	7099594	640.8	1	Dark Green/Brown	1.5
TRH2	07W	582069	7099595	633.6	2	Dark Green/Brown	.6
TRH3	07W	582015	7099593	625.7	3	Dark Green/Brown	.5
TRH4	07W	581964	7099599	614.9	4	Dark Green/Brown	.6
TRH5	07W	581918	7099633	602.6	5	Dark Green/Brown	.6
TRH6	07W	581871	7099618	596.9	6	Light Brown/Dark Green	.6
TRH7	07W	581819	7099619	581.7	7	Light Brown/Dark Green	.6
TRH8	07W	581762	7099624	569.9	8	Dark Green	.6
TRH9	07W	581709	7099637	571.6	9	Dark Green	.6
TRH10	07W	581663	7099657	565.9	10	Dark Green	1.2
TRH11	07W	581639	7099611	567.5	11	Dark Green	1.2
TRH12	07W	581592	7099594	567.5	12	Brown/Green	.9
TRH13	07W	581606	7099653	567.5	13	Brown/Green	1.2
TRH14	07W	581552	7099667	567.5	14	Light Brown	.8
TRH15	07W	581500	7099655	567.5	15	Dark Green	.8
TRH16	07W	581447	7099662	567.5	16	Dark Green	.7
TRH17	07W	581402	7099617	567.5	17	Dark Green	.6
TRH18	07W	581384	7099574	567.5	18	Light Brown/Green	.8
TRH19	07W	581334	7099573	567.5	19	Red/Brown	.8
TRH20	07W	581298	7099614	537.5	20	Light Brown/Green	.8
TRH21	07W	581224	7099623	539.2	21	Green/Brown	1.2
TRH22	07W	581196	7099599	527.6	22	Brown	.7
TRH23	07W	581137	7099614	523.3	23	Light Brown/Gravely	.5
TRH24	07W	581035	7099661	522.6	24	Light Brown/Grey	.6
TRH25	07W	580977	7099692	524	25	Red/Light Brown	.6
TRH26	07W	580921	7099706	522.1	26	Light Brown	.7
TRH27	07W	580866	7099703	522.1	27	Red/Brown	.7
TRH28	07W	580798	7099698	520.2	28	Red/Brown	.7
TRH29	07W	580742	7099695	521.2	29	Red/Brown	.7
TRH30	07W	580691	7099692	520	30	Red/Brown	.8
TRH31	07W	580642	7099692	518	31	Red	.8
TRH32	07W	580589	7099703	520.4	32	Brown/Red	1.2
TRH33	07W	580514	7099687	517.3	33	Brown	1.1

W-VEIN	07W	580471	7099696	456.3	wall-vein 2	Turquoise green, powdered talc.	
CRR1	07W	582375	7099322	684.6	1	Dark Green/Black	.5
CRR2	07W	582305	7099331	670.2	2	Dark Green/Black	.4
CRR3	07W	582210	7099328	658.6	3	Dark Green/Light Brown	.5
CRR4	07W	582141	7099320	647.6	4	Greenish quartz	.6
CRR5	07W	582113	7099331	638.4	5	Greenish quartz	.5
CRR6	07W	582048	7099328	628.8	6	Dark Green/quartz	.7
CRR7	07W	581989	7099333	621.6	7	Dark Green/Light Brown	.8
CRR8	07W	581936	7099315	613.2	8	Light Brown/Green	.6
CRR9	07W	581873	7099330	598.5	9	Light Brown/Green	.5
CRR10	07W	581807	7099321	590.4	10	Brown Green	.4
CRR11	07W	581742	7099305	578.8	11	Light Brown	.5
CRR12	07W	581679	7099322	578.8	12	Brown	1
CRR13	07W	581628	7099316	578.8	13	Green	1.2
CRR14	07W	581573	7099317	578.8	14	Light Brown	4
CRR15	07W	581497	7099307	558.9	15	Green	.5
CRR16	07W	581439	7099310	557.9	16	Green sulfides	.6
CRR17	07W	581370	7099314	545.2	17	Brown/Grey	1.2
CRR18	07W	581323	7099293	538	18	Light Brown	1
CRR19	07W	581270	7099282	532.5	19	Light Brown	.5
CRR20	07W	581203	7099288	526.4	20	Light Brown/White	1
CRR21	07W	581145	7099293	526.4	21	Light Brown/Green/Sulfides	.6
CRR22	07W	581087	7099306	526.4	22	Very light Brown	.8
CRR23	07W	581055	7099271	526.4	23	Light Brown	1
CRR24	07W	580999	7099270	526.4	24	Very light Brown	.5
CRR25	07W	580947	7099282	526.4	25	Light Brown	.4
CRR26	07W	580889	7099270	526.4	26	Light Brown	.6
CRR27	07W	580819	7099254	526.4	27	Light Brown	.6
CRR28	07W	580760	7099235	526.4	28	Light Brown	.5
CRR29	07W	580710	7099212	501.4	29	Red/Green	.7
CRR30	07W	580659	7099183	507.2	30	Very Light Brown	.5
CRR31	07W	580623	7099164	505.8	31	Red/ Brown	.6

July/11 results including Sept/10 results taken by Kevin Brewe



Rock Sampling Fall 2011 Assay Results

Claim: CripFriday13

CripF.13- - Arsenopyrite, pyrites, mica. From altered, heavy, iron stained graphite rock outcrop.
560 ppb Au Neuron Activation Assay; 1.228 gm/tonAu Fire Assay of rock sample CripF13

Becquerel
A Maxxam Company

Company : Petroutsas, Erini

Submitted by : Erini Petroutsas

T12-02262.0

Date Received : 08-Nov-12

Date Reported : 20-Nov-12

ISO 17025
For Scope of Accreditation No. 422
Pour la portée d'accréditation no. 422

Acme file # :WHI12000989

Samples were run as received.

Analysis performed by Neutron Activation (Method BQ-NAA-1)

A negative result denotes "Less Than".

Note : Mo results are interfered with by Mo production from U fission.

#	ID	Wt	Sb	As	Ba	Br	Ca	Ce	Cs	Cr	Co	Eu	Au	Hf	Ir	Fe	La	Ni	Rb	Sm	Sc	W	U	Yb	Zn
		grams	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1	W7	10.81	0.4	165.0	970	-0.5	6	26	3	43	33	1.0	754	2	-5	10.90	16.0	340	69	3.1	12.8	3	1.7	7.6	[illegible]
2	W7west	12.69	0.6	15.0	260	-0.5	9	5	-1	24	8	3.2	-2	-1	-5	6.76	5.8	-100	-15	4.9	19.8	-1	1.3	28.0	[illegible]
3	CripF.13	15.01	5.4	92.0	170	-0.5	5	-3	-1	9	20	-0.2	560	-1	-5	40.10	2.0	-100	-15	0.5	1.5	1	-0.5	0.4	[illegible]
4	W5	11.62	0.1	6.9	340	-0.5	-1	23	1	23	1	0.5	366	1	-5	0.86	16.0	-100	24	2.6	3.1	2	2.4	0.7	[illegible]

3B02 fire analysis {Other results here from IN Group Fall 2011 sampling.}

ACME ANALYTICAL LABORATORIES LTD.					
Client:	Petroutsas, Erini				
File Created:	30-May-2013				
Job Number:	WHI12000989				
Number of Samples:	4-(3 from IN)				
Project:	Petra				
Shipment ID:	R200-100 prep; 3B02 fire assay				
Received:	01-Oct-2012				
	Method	WGHT	3B	3B	3B
	Analyte	Wgt	Au	Pt	Pd
	Unit	KG	PPB	PPB	PPB
	MDL	0.01	2	3	2
Sample	Type				
G1-WHI	Prep Blank	<0.01	<2	<3	<2
CripF.13	Rock	0.29	1228	6	<2

CripF.13 rock (from CripFriday13 Claim, Lovett Gulch) returned a **Neuron Assay of 560 ppbAu** & **Fire Assay of the duplicate at 1.228 gram/ton Au**. This rock is from an **homogenous pile of turned up tailings from dredge mining**. Further investigation will go into finding it's exact bedrock source through a test pit program.

Company : Petroutsas, Erini
Submitted by : Erini Petroutsas
Date Received : 08-Nov-12
Date Reported : 29-Nov-12

T12-02263.0

Becquerel
A Maxxam Company
6790 Kitimat Rd, Unit #4
Mississauga, ON,Canada,L5N 5L9
Ph: (905) 826-3080 Fax : (905) 826-4151
email : RAllen@maxxam.ca

*ISO 17025
For Scope of Accreditation No. 422
Pour la portée d'accréditation no. 422

Acme file # :WHI12000950
Samples were run as received.
Analysis performed by Neutron Activation (Method BQ-NAA-1)
A negative result denotes "Less Than".
Note : Mo results are interfered with by Mo production from U fission. Sample # 104 was not received. Some detection limits are elevated due to elevated Fe/Co/Sc...

#	ID	Wt	Sb	As	Ba	Br	Ca	Ce	Cs	Cr	Co	Eu	Au	Hf	Ir	Fe	La	Lu	Hg	Mo	Nd	Ni	Rb	Sm	Sc	Se	Ag	Na	Sr	Ta	Tb	Th	Sn	W	U	Yb	Zn
		grams	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1	Cr5De1	13.25	1.2	37.0	730	-1.1	3	47	4	29	206	2.8	-9	7	-13	20.50	29.0	1.40	-1	-7	25	330	36	8.9	47.3	-3	-5	1.26	-500	1.4	1.9	8.7	-230	4	23.0	8.7	1300
2	Cr5De2	14.82	1.5	186.0	1100	-0.5	3	38	2	180	137	3.0	-7	8	-11	12.70	22.0	1.30	-1	-6	23	-100	26	9.2	44.6	-3	-5	1.02	-500	2.0	1.6	4.6	-210	2	2.3	8.2	160
3	ACS	14.68	0.6	2.2	1700	-0.5	3	53	3	41	7	1.3	-2	4	-5	2.61	29.0	0.37	-1	-3	19	-100	79	4.8	9.2	-3	-5	1.84	-500	0.6	0.7	10.0	-100	2	2.5	2.3	-50
4	ACS2	16.41	0.7	2.7	1700	-0.5	3	54	3	40	7	1.1	-2	4	-5	2.43	29.0	0.37	-1	-3	20	-100	80	4.8	9.2	-3	-5	1.87	-500	-0.5	0.8	10.0	-100	2	2.5	2.3	-50
5	C23S1	14.19	1.2	27.0	1200	1.1	-1	36	4	69	11	0.7	-2	7	-5	3.88	21.0	0.27	-1	-3	15	-100	87	3.0	10.5	-3	-5	1.30	-500	1.1	-0.5	7.9	-100	3	2.4	1.6	84
6	C23S2	14.18	1.1	20.0	1600	0.7	-1	64	5	75	14	1.1	-2	6	-5	3.77	33.0	0.34	-1	-3	23	-100	94	5.2	13.6	-3	-5	1.30	-500	1.0	0.6	11.0	-100	2	2.9	2.1	84
7	C23S3	13.24	6.0	121.0	2700	-0.5	-1	67	5	110	12	1.2	-4	5	-5	3.38	37.0	0.41	-1	9	27	-100	97	6.1	12.2	-3	-5	0.37	-500	0.7	0.6	10.0	-100	3	3.9	2.5	140
8	CR23S2	15.64	1.1	14.0	2100	-0.5	-1	97	4	6	1	0.9	-2	6	-5	2.99	52.0	0.43	-1	-3	33	-100	130	7.5	7.2	-3	-5	0.26	-500	1.2	1.0	10.0	-100	7	2.7	2.7	-50
9	PG28	16.44	1.2	9.4	1200	-0.5	-1	10	-1	9	1	0.2	7	-1	-5	1.75	6.1	0.10	-1	-1	-5	-100	57	0.9	1.6	-3	-5	0.19	-500	-0.5	-0.5	1.9	-100	-1	2.1	0.6	-50
10	PG28-2	15.16	4.9	10.0	1200	-0.5	-1	65	-1	15	-1	0.6	15	4	-5	1.49	35.0	0.21	-1	-2	20	-100	95	4.3	5.2	-3	-5	0.08	-500	0.6	0.5	6.5	-100	6	2.1	1.2	-50
11	Crip30Tr5P	15.71	0.3	5.6	640	-0.5	5	55	-1	140	44	2.4	-2	6	-5	8.39	28.0	0.68	-1	-4	31	-100	16	8.5	28.8	-3	-5	2.09	-500	1.3	1.2	2.9	-100	-1	1.0	4.3	150
12	Crip30TR2	16.15	0.3	16.0	800	-0.5	4	71	-1	110	24	2.1	-2	7	-5	5.94	37.0	0.57	-1	-4	31	-100	57	8.6	22.0	-3	-5	1.97	-500	0.9	1.2	8.1	-100	2	2.5	3.8	100
13	Crip30TR2P	16.77	0.3	13.0	740	-0.5	4	70	2	110	32	2.0	-2	8	-5	6.43	36.0	0.60	-1	-4	30	-100	62	8.5	23.7	-3	-5	1.94	-500	1.1	1.2	7.3	-100	-1	2.1	3.8	120
14	Crip30TR2Pb	15.87	1.0	6.4	2000	-0.5	2	51	2	36	6	1.2	-2	5	-5	3.12	27.0	0.49	-1	-3	20	-100	56	4.9	9.1	-3	-5	1.82	-500	0.9	0.7	11.0	-100	-1	2.7	2.9	-50
15	TRP/R-1	14.47	0.7	3.5	670	-0.5	2	65	2	160	33	2.2	-2	8	-5	8.79	32.0	0.59	-1	-5	25	-100	24	7.0	31.8	-3	-5	1.41	-500	2.0	1.1	4.1	-100	-1	1.5	3.8	470
16	TRP/R-2	16.19	1.2	10.0	760	-0.5	1	45	2	300	4	1.3	-2	3	-5	4.21	36.0	0.46	-1	-3	26	-100	26	6.2	12.0	-3	-5	0.35	-500	-0.5	0.7	4.3	-100	3	5.1	2.8	88
17	TRP/R-3	12.93	0.4	15.0	-50	-0.5	-1	-3	-1	2480	48	0.5	-2	-1	-5	5.96	-0.5	0.12	-1	-3	-5	650	-15	1.1	28.2	-3	-5	-0.01	-500	-0.5	-0.5	-0.2	-100	-1	-0.5	1.0	84
18	TRP/R-4	19.23	1.6	466.0	110	-0.5	5	-3	1	1210	11	-0.2	-2	-1	-5	3.44	-0.5	-0.05	-1	-2	-5	-100	-15	0.1	4.3	-3	-5	0.03	-500	-0.5	-0.5	-0.2	-100	-1	-0.5	-0.2	-50
19	C3TG	17.10	7.7	61.1	-50	-0.5	-1	-3	-1	29	5	-0.2	11	-1	-5	7.45	0.8	-0.05	-1	-1	-5	-100	-15	0.1	0.4	22	-5	-0.01	-500	-0.5	-0.5	-0.2	-100	-1	1.1	-0.2	-50
20	C3TG2	15.22	3.0	48.0	3100	-0.5	-1	47	4	82	4	1.0	-2	2	-5	2.36	26.0	0.34	-1	43	21	-100	52	5.6	9.1	-3	-5	0.59	-500	0.6	0.8	5.9	-100	2	6.4	2.3	130

Rock Samples Assayed from Fall 2011

TRP/R- *Trail Hill Pit. Talcy listwanite bordering very orange & green oxidation zones.*
1- Black/Orange hydro altered quartz. **<1ppbAu**
2- Red/Orange calcite & sulfuric quartz veins in talcy graphite. **<1ppbAu**
3- Talc altered serpentine zone. Calcite and oxidation. **<1ppbAu; 2480 ppmCr**
4- Large quartz/calcite vein borders serpentine. Turquoise fucshite chromium segments.
Red & Orange oxidation. **<1ppbAu; 1210 ppmCr; 466 ppmAs**

C3TG -Red & burgandy quartz vein running through graphite , sulfides around calcite veinlets in quartz. 580316/7099500 **~ 11 ppbAu**
C3TG2 -Same as above with sulfides visible in the graphite as well as the quartz veins. **<1ppbAu**

Decomposing bedrock system. On exposed stripped area east of Cam's camp. Claim: **Crip5**.
Cr5De - 07W0 580275/7099634
Cr5De1 -orange "goo" coated conglomerate, black & green decomposing system. **<1ppbAu; 20.5%Fe**
Cr5De2 -black & red altered quartz vein, green grey powdered coating. Rock**. <1ppbAu; 180 ppmC**
1100 ppmBa

Sampling and prospecting area of Hard Rock Shaft near Cripple creek. Claims: **Crip30.**
ACS -Pulverized powder. Above shaft. Light green. Quartz and chlorite schist. **<1 ppbAu; 1700 ppmBa; 41 ppmCr**
ACS2 - Pulverized turquoise green powder. **<1 ppbAu; 1700 ppmBa; 40 ppmCr**

5HanTr- Up old Cripple Creek road north side of creek. **Crip30** claim. Contact zones of blackend tuf balls. Orange carbonate rock intersected with veins of decomposing calcite. Chlorite.
C30TR1
C30TR2
C30TR3-5 ~ (Samples contaminated in shipment & un-assayed.) Further testing during 2012.

CERTIFICATE OF ANALYSIS

	Method	WGHT	3BMS	3BMS	3BMS
	Analyte	Wgt	Au	Pt	Pd
	Unit	kg	ppb	ppb	ppb
	MDL	0.01	1	0.1	0.5
C305TR1	Rock	0.72	<1	<0.1	<0.5
C305TR2	Rock	0.21	<1	<0.1	<0.5

Method Code R200-1000 3B03 **Job: WHI11001168.1** Acme Laboratories Vancouver. September 21, 2011.

Crip1 -(Claim Crip1. July Sample)
Bedrock outcrop. Grey Quartzite with pyritic veins. *Claim:* **Crip41**. Multiple samples taken from system. Sample result of one tested:

CERTIFICATE OF ANALYSIS

	Method	WGHT	3BMS	3BMS	3BM
	Analyte	Wgt	Au	Pt	P
	Unit	kg	ppb	ppb	pp
	MDL	0.01	1	0.1	0.
CRIP 1	Rock	1.24	11	<0.1	<0.

Method Code R200-1000 3B03 **Job: WHI11001168.1** Acme Laboratories Vancouver. September 2 2011.

2011 Fall Soil Sample Assay Results

*UTM locations page 51.

ACME ANALYTICAL LABORATORIES Final Report

Client:	Petroutsas, Erini	
File Created:	30-May-2013	
Job Number:	WHI12000951	**Soil Sample Results from Fall 2011 CRIP Group**
Number of Sa	Crip Soil	**SS80 100g to -80 mesh**
Project:	Petra	**1F03 Aqua Regia digestion**
Shipment ID:		
P.O. Number:		
Received:	01-Oct-2012	

Sample	Type	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr
	Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
	Unit	PPM	PPM	PPM	PPM	PPB	PPM	PPM	PPM	%	PPM	PPM	PPB	PPM	PPM
	MDL	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
OH 1	Soil	0.15	11.89	15.01	17.5	61	3.9	1.9	87	0.61	2.5	1.1	2.2	9.5	5.4
OH 2	Soil	0.41	16.39	14.71	43.8	46	9.5	4.0	104	1.06	5.3	0.7	5.9	6.7	15.3
OH 3	Soil	0.40	10.99	8.70	26.6	20	8.0	3.0	88	1.15	3.5	0.7	1.6	6.3	6.7
OH 4	Soil	0.18	6.41	8.22	29.6	35	4.8	1.9	96	0.62	1.5	0.9	2.8	5.1	10.2
Rag28	Soil	0.03	3.30	28.86	86.0	18	11.3	8.9	719	2.45	0.9	2.9	4.5	40.5	33.7
CRP 1	Soil	37.30	9.89	60.22	5.1	815	1.1	0.4	7	2.00	60.0	1.1	4.3	2.7	78.8
CRP 2	Soil	24.54	61.35	51.64	26.8	303	2.3	0.9	12	7.74	24.1	2.2	11.4	2.6	15.3
CRP 3	Soil	0.10	4.02	15.25	6.0	25	0.5	0.2	5	0.05	0.5	3.1	6.0	15.4	4.8
CRP 4	Soil	1.01	26.79	32.87	150.9	67	5.1	3.2	64	1.30	15.0	8.7	2.0	21.3	12.2
CRP 5	Soil	0.10	7.27	8.93	4.4	15	0.5	0.3	4	0.05	1.4	2.6	1.0	17.6	5.6
CRP 6	Soil	0.06	5.96	86.28	153.1	44	3.2	2.2	10	0.45	0.8	2.2	4.3	18.7	7.3
TRP/S 1	Soil	4.69	66.99	7.76	146.3	3636	43.9	5.1	61	1.72	19.2	3.4	3.3	1.8	24.4
TRP/S 2	Soil	2.86	81.72	4.61	373.1	83	85.6	13.8	96	6.81	17.4	1.4	0.8	2.5	64.9
TRP/S 3	Soil	0.84	89.65	26.46	289.2	254	88.8	10.3	122	2.61	67.8	0.4	1.5	0.2	10.1
TRP/S 4	Soil	20.61	144.92	32.60	131.2	1177	140.0	54.6	988	5.67	649.6	20.7	1.4	7.1	53.6
Crip30 1	Soil	0.21	14.96	13.09	74.3	22	20.8	12.4	441	2.00	2.9	1.5	<0.2	15.9	18.8
Crip30 2	Soil	0.79	38.15	7.90	97.0	41	48.5	25.3	385	5.67	19.1	0.8	<0.2	4.0	52.9
Crip30 3	Soil	0.44	32.15	7.45	39.6	24	25.8	21.7	151	1.75	4.4	2.0	<0.2	4.3	143.8
Crip30 4	Soil	0.33	33.87	5.63	75.6	23	47.3	38.9	682	4.71	7.5	1.5	<0.2	6.6	56.3
Crip30 5	Soil	0.81	40.33	3.94	104.7	34	70.4	95.0	2385	6.13	11.5	1.4	<0.2	5.5	50.5
Crip30 6	Soil	0.46	44.18	13.36	106.7	17	33.9	33.3	735	3.07	5.3	2.4	0.6	12.0	61.1
Crip30 7	Soil	1.42	27.48	18.28	40.3	21	20.8	15.1	463	2.86	16.4	7.0	<0.2	8.0	142.4
Crip30 8	Soil	0.59	34.46	7.70	116.7	44	47.6	37.4	743	6.39	11.3	0.9	1.1	4.8	48.0
Crip30 9	Soil	0.40	30.84	6.24	118.3	29	38.2	22.3	335	2.77	4.4	1.0	<0.2	6.5	54.4
Crip30 10	Soil	0.44	30.87	4.51	67.3	17	40.0	24.9	258	3.86	20.2	0.6	2.1	4.6	45.7

Sample	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Sc	Tl	S	Hg	Se	Ga
Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	F30	1F30	1F30
Unit	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	PPM	PPM	%	PPB	PPM	PPM
MDL	0.01	0.02	0.02	2	0.01	0	0.5	0.5	0.01	0.5	0.001	1	0.01	0.1	0.02	0.02	5	0.1	0.1
OH 1	0.03	0.47	0.14	11	0.04	0.006	21.5	6.1	0.12	101.2	0.012	1	0.43	2.1	0.04	<0.02	13	0.1	1.1
OH 2	0.05	0.51	0.13	19	0.16	0.024	20.2	14.5	0.32	270.4	0.028	<1	0.79	2.3	0.04	<0.02	18	<0.1	2.3
OH 3	0.02	0.30	0.09	23	0.06	0.007	17.7	13.2	0.24	146.1	0.025	2	0.94	1.4	0.05	<0.02	<5	<0.1	2.5
OH 4	0.03	0.17	0.06	10	0.10	0.013	18.4	7.3	0.22	125.2	0.015	<1	0.49	1.3	0.05	<0.02	<5	<0.1	1.3
Rag28	0.24	0.56	0.31	9	0.20	0.053	89.1	6.3	1.76	809.5	0.001	<1	1.77	2.6	0.04	<0.02	<5	0.3	5.4
CRP 1	0.03	4.54	1.08	4	0.08	0.026	12.9	5.5	0.03	180.8	<0.001	1	0.28	0.8	1.83	0.60	70	4.5	1.9
CRP 2	0.13	4.54	1.14	7	0.14	0.015	14.9	8.9	0.06	290.5	<0.001	1	0.26	0.8	0.19	0.03	70	1.4	4.0
CRP 3	0.03	0.10	0.03	<2	0.04	0.014	31.6	0.7	0.03	98.1	<0.001	<1	0.17	1.1	0.04	<0.02	6	<0.1	0.4
CRP 4	0.24	0.68	0.32	3	0.10	0.020	26.4	3.3	0.41	100.5	0.008	<1	0.87	3.4	0.06	<0.02	17	0.3	3.0
CRP 5	0.03	0.07	0.27	<2	0.04	0.019	47.0	1.1	0.02	127.6	<0.001	<1	0.17	2.4	0.04	<0.02	<5	<0.1	0.4
CRP 6	0.12	0.45	0.11	3	0.11	0.007	40.8	1.4	0.06	68.3	<0.001	<1	0.36	3.5	0.06	<0.02	<5	<0.1	1.4
TRP/S 1	0.39	1.03	0.06	53	0.18	0.047	7.0	577.8	0.75	543.1	0.007	<1	2.21	16.4	0.47	0.12	12	1.0	5.7
TRP/S 2	1.37	0.09	0.03	69	0.34	0.275	33.3	65.6	0.34	132.2	0.010	<1	1.59	18.1	0.15	0.43	<5	1.3	4.0
TRP/S 3	0.60	1.09	0.85	67	0.25	0.030	1.9	452.8	2.15	184.1	0.005	<1	2.48	15.8	0.11	0.06	<5	1.5	4.2
TRP/S 4	2.62	3.98	0.25	87	0.32	0.306	19.8	224.8	1.31	162.2	0.003	<1	2.12	9.5	0.81	0.73	56	3.5	5.9
Crip30 1	0.07	0.15	0.28	25	0.34	0.080	52.3	31.1	1.58	203.4	0.024	<1	2.33	8.4	0.08	<0.02	8	0.3	6.7
Crip30 2	0.20	0.49	0.07	122	0.97	0.183	30.2	79.4	0.96	354.2	0.172	<1	2.02	14.0	0.13	<0.02	<5	0.9	7.4
Crip30 3	0.13	0.14	0.03	86	0.61	0.205	33.2	72.6	0.40	397.3	0.063	<1	2.02	25.0	0.23	<0.02	<5	0.4	7.8
Crip30 4	0.21	0.11	0.06	90	0.72	0.159	34.7	90.2	0.66	296.6	0.066	<1	2.26	20.8	0.24	<0.02	<5	0.4	7.2
Crip30 5	0.54	0.07	0.02	123	0.70	0.149	26.6	83.2	0.59	613.0	0.068	<1	2.10	25.6	0.35	<0.02	<5	0.4	7.0
Crip30 6	0.21	0.21	0.38	57	0.53	0.111	41.3	56.4	1.08	484.6	0.072	<1	2.33	14.0	0.13	<0.02	<5	0.6	8.6
Crip30 7	0.33	0.57	0.41	102	0.40	0.135	56.9	46.8	0.30	646.2	0.062	<1	1.88	17.9	0.09	<0.02	<5	0.5	7.5
Crip30 8	0.26	0.26	0.05	111	0.81	0.196	28.6	73.8	0.72	439.6	0.097	<1	2.11	18.4	0.25	<0.02	8	0.6	7.6
Crip30 9	0.09	0.13	0.04	77	0.53	0.128	35.0	69.9	0.45	310.0	0.079	<1	2.13	16.9	0.33	<0.02	10	<0.1	6.8
Crip30 10	0.07	0.26	0.10	92	0.84	0.165	32.3	69.7	0.68	252.4	0.112	1	1.92	16.0	0.23	<0.02	<5	0.8	6.9

Soil sampling on Cripple Hill "Bowl" *Claims:* Crip3, Crip14

CRP	**(Iron)**	(meters deep)	
1	Grey	.7	**~ 4.3 ppbAu; 815 ppmAg**
2	Oxidized Red/Orange	.3	~ **11.4ppbAu; 61.35 ppmCu**
3	Grey	.3	**~ 6 ppbAu**
4	Light Brown	.3	**~ 2 ppbAu**
5	Light Brown/Light Brown	.4	**~ 1 ppbAu**
6	Grey	.5	**~ 4 ppbAu**

Roughly 80 meters up from last Trail Hill Pit trench (trench 5). Claim: Crip3

Trail Hill Pits soils. *Claims:* Crip 3 and 4.

TRP/S	Description	Depth (in meters)	
1	Light Brown/Grey	.5	**~3.64gm/tonAg; 577 ppmCr; 3.3 ppbAu**
2	Light Brown/Grey	1	**<1ppbAu**
3	Green/ Light Brown	1	**~1.5ppbAu**
4	Black/Light Brown/Green	1	**~1.18gm/tonAg; 144.9 ppmCu; 650 ppmAs; 54 ppmCo**

North hillside of Cripple Creek Soils. Along old road. *Claim:* Crip30.

Crip30			
1	Light Green	.5	**<1ppbAu**
2	Dark Green	1	**<1ppbAu; 122 ppmV**
3	Dark Green/Oxidation	1	**<1ppbAu**
4	Dark Green/Oxidation	1	**<1ppbAu**
5	Dark Green/Oxidation	1	**<1ppbAu; 2385 ppmMn; 613 ppmBa; 123 ppmV; 95 ppmCo**
6	Dark Green/Oxidation	1	**<1ppbAu**
7	White/Dark Green/Oxidation	1	**<1ppbAu; 102 ppmV**
8	Dark Green	1	**~ 1 ppbAu; 111 ppmV**
9	Dark Green/Oxidation	.8	**<1ppbAu**
10	Dark Green/Oxidation	.8	**~ 2 ppbAu**

Ophir Hill. Claims: Crip14 &12.

OH -soils	color	depth	
1-	Light Brown	.4m	**~ 2.2 ppbAu**
2-	Light Green/Light Brown	.3	**~ 5.9ppbAu**
3-	Light Brown	.4	**~ 1.6 ppbAu**
4-	Decomposing Quartz	.3	**~ 2.28ppbAu**

Claim: Crip23 &21- Upper Limit of Trail Gulch to signpost on heritage trail.

CR23S2-Vein of sulfide rich (py, arsenopy) green phyllite with quartz. Bordered by calcified & oxidizing (dull orange) carbonate altered chlorite schist. Rock. **<1 ppbAu**

C23S1 -dark red, powdery. 1m. **<1 ppbAu**

C23S2 -red, brown, decomposing fine powder. 1m. **<1 ppbAu**

C23S3 - red, black, fine decomposing graphite.0.8m **<1 ppbAu**

Pulverized rock from the area of 5HandTr; TestPit2. Claim: Crip30.

C30Trenches

C30Tr2 -Pulverized fine gravel. Blackend silicate greenstone. **<1 ppbAu**

C30Tr2P -Pulverized powder. Orange, green chlorite/quartz, oxidation. **<1 ppbAu**

C30Tr5P -Pulverized fine gravel. Dark green, black, orange altered ultramafic. **<1 ppbAu; 140 ppmC**

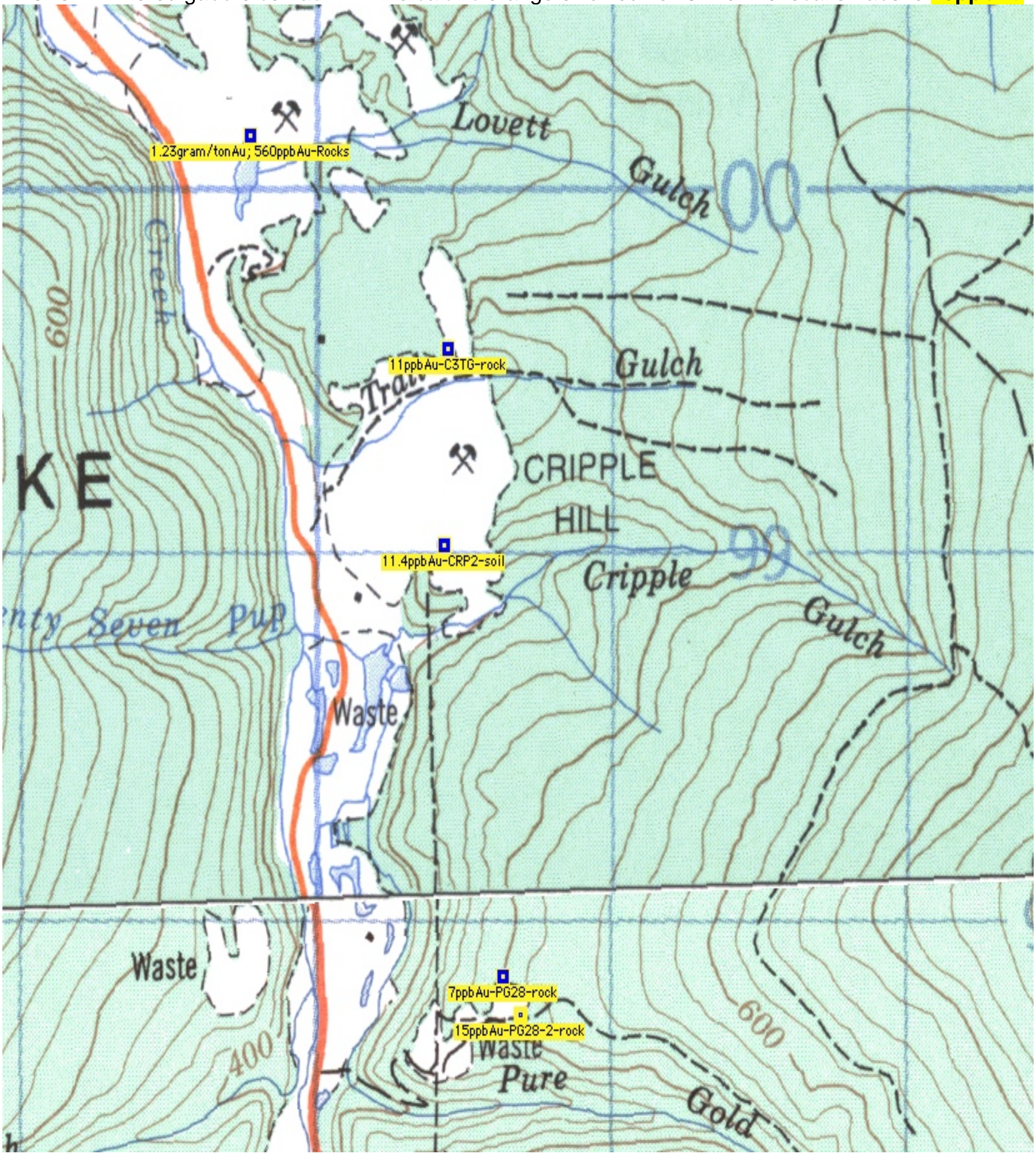
From open pit bedrock previously mined by Ragu family, Ophir Hill.

Rag28 – Soil - Decomposing iron oxide rock. **~ 4.5 ppbAu; 809 ppmBa**

Pure Gold Creek

PG28 -Red/Orange quartz vein, bordering calcite veins against altered greenstone. Rock. **7ppbAu**

PG28-2 - Altered gabbro contact with the calcitic orange oxidized veins. *Next to location above.* **15ppbAu**



Fall 2011 Assay Highlights & Locations

Company : Petroutsas, Erini — **T12-02263.0** — Becquerel

Submitted by : Erini Petroutsas — 6790 Kitimat Rd, Unit #4

Date Received : 08-Nov-12 — Mississauga, ON,Canada,L5N 5L9

Date Reported : 29-Nov-12 — Ph: (905) 826-3080 Fax : (905) 826-4151

Highlight of Sample results 2011

Cripple Group- Fall

Acme file # :WHI12000950

(See also attached full lists of assay results from Acme Labs Vancouver.)

Samples were run as received.

Analysis performed by Neutron Activation (Method BQ-NAA-1)

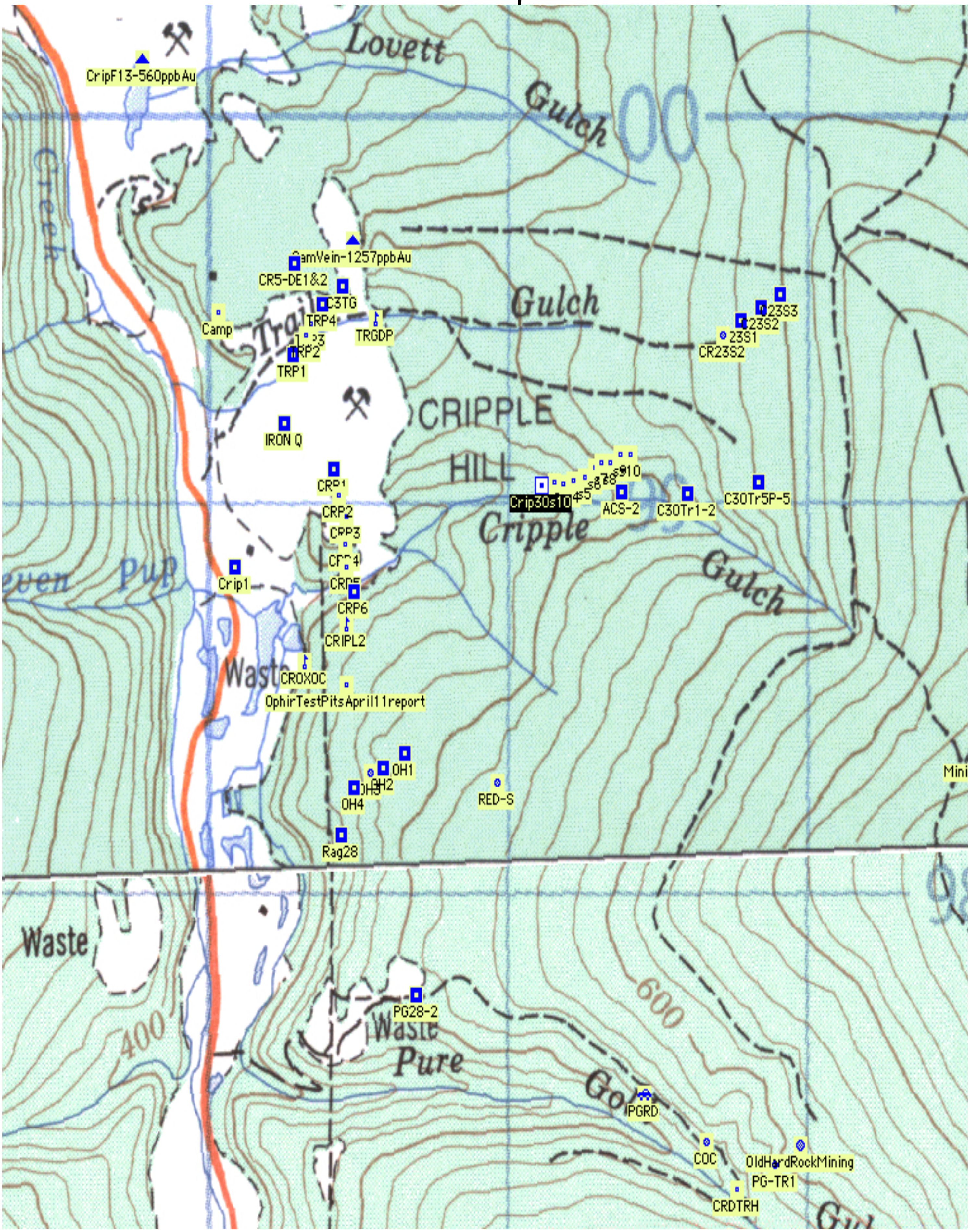
A negative result denotes "Less Than".

*ISO 17025
For Scope of Accreditation No. 422
Pour la portée d'accréditation no. 422

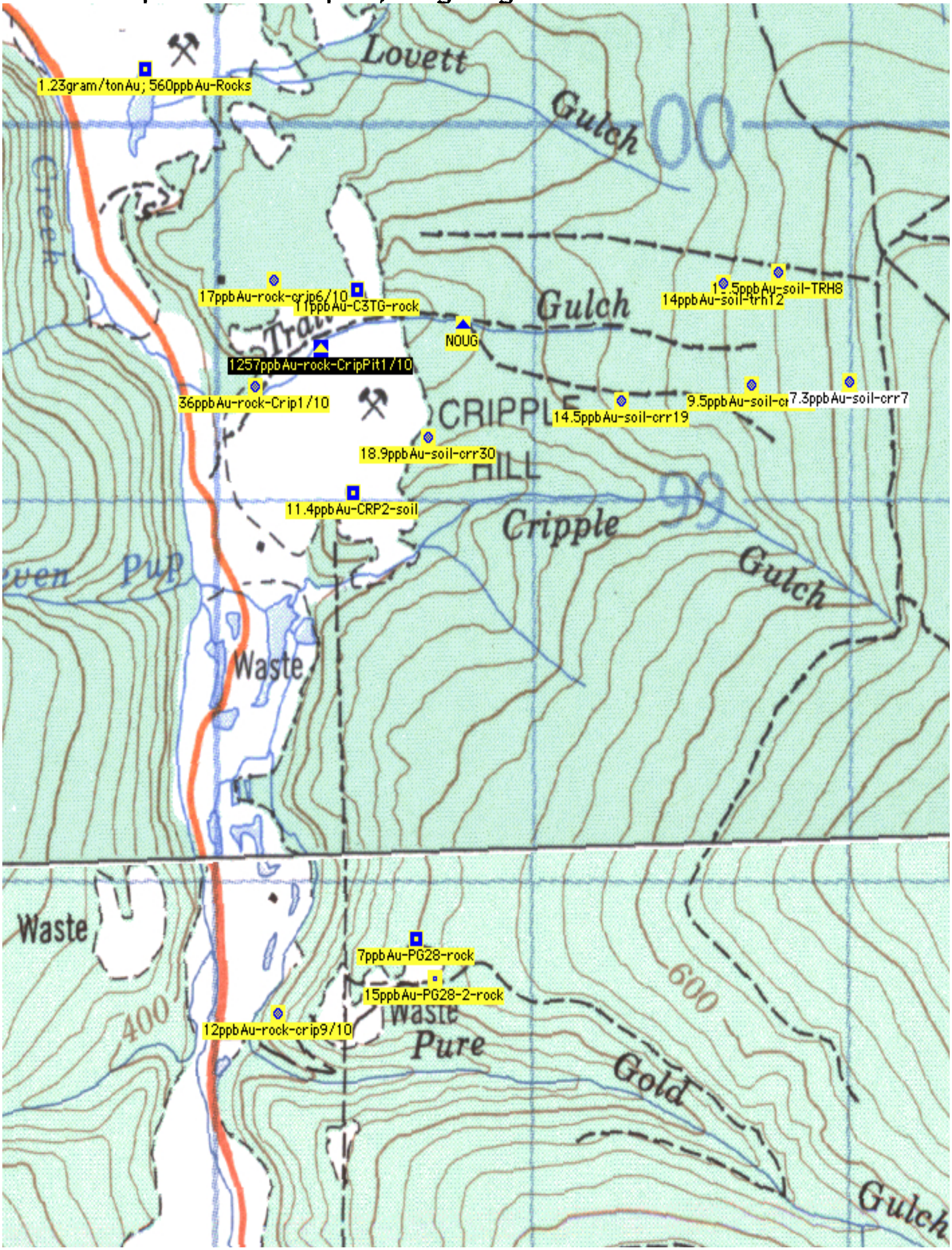
Note : Mo results are interfered with by Mo production from U fission. Sample # 104 was not received. Some detection limits are elevated due to elevated Fe/Co/Sc...

Rock Samples: R200-500 Prep and 5A Analysis	Au	Cr	Soil Samples: SS80 Prep and 1F03 Analysis	Au	Ag	Cu	As	Rock Samples:R200-1000 and 5A + 3B02 Analysis	Au	Fe
	ppb	ppm		ppb	ppb	ppm	ppm		ppb	%
ACS - 07W 0581369 7099048			OH 1 - 07W 0580646 7098365	2.2	61	11.89	2.5	**CripF.13 - 07W 0579766 7100164 (Fire assay)**	1228	
ACS2 - 07W 0581367 7099043			OH 2 - 07W 0580574 7098327	5.9	46	16.39	5.3	CripF.13 (#WHI12000989, **NeuronActi Method**)	560	40.1
C23S1 - 07W 0581764 7099486			OH 3 - 07W 0580528 7098314	1.6	20	10.99	3.5	same location		
C23S2 - 07W 0581832 7099520			OH 4 - 07W 0580476 7098276	2.8	35	6.4	1.5			
C23S3 - 07W 0581899 7099554			Rag28 - 07W 0580432 7098154	4.5	18	3.3	0.9			
CR23S2 - 07W 0581705 7099448			CRP 1 - 07W 0580406 7099103	4.3	815	9.89	60			
PG28 - 07V 0580681 7097739	7		**CRP 2 - 07W 0580422 7099034**	11.4	303	61.35	24.1			
PG28-2 - 07V 0580681 7097739	15		CRP 3 - 07W 0580449 7098979	6	25	4.02	0.5			
Crip30Tr5P = 07W 0581722 7099072			CRP 4 - 07W 0580447 7098907	2	67	26.79	15			
Crip30TR2 - 07W 0581588 7099040			CRP 5 - 07W 0580451 7098848	1	15	7.27	1.4			
Crip30TR2P - 07W 0581588 7099040			CRP 6 - 07W 0580473 7098784	4.3	44	5.96	0.8			
Crip30TR2Pb - 07W 0581588 7099040			**TRP/S 1 - 07W 580271 7099398**	3.3	3636	66.99	19.2			
TRP/R 1 - 07W 0580271 7099398			TRP/S 2 (samples taken from TRP test pits)	0.8	83	81.72	17.4			
TRP/R 2 - 07W 0580315 7099450			TRP/S 3 - 07W 0580325 7099476	1.5	254	89.65	67.8			
TRP/R 3 - 07W 0580329 7099478		2480	**TRP/S 4 - 07W 058370 7099530**	1.4	1177	144.9	649.6			
TRP/R 4 - 07W 0580371 7099529		1210	Crip30 1 - 07W 0581103 7099060	<0.2	22	14.96	2.9			
C3TG - 07W 0580435 7099576	11		Crip30 2 - 07W 0581142 7099068	<0.2	41	38.15	19.1			
C3TG2- 07W 058435 7099576			Crip30 3 - 07W 0581175 7099064	<0.2	24	32.15	4.4			
All Ag results were <1ppm. High Barium content.										
Emply cell indicates <5ppb Au.			Crip30 4 - 07W 0581209 7099072	<0.2	23	33.87	7.5			
			Crip30 5 - 07W 0581247 7099081	<0.2	34	40.33	11.5			
LNR samples: (Non-recoverable)			Crip30 6 - 07W 0581277 7099106	0.6	17	44.18	5.3			
C30TR5 3 - 07W 0581751 7099072			Crip30 7 - 07W 0581302 7099119	<0.2	21	27.48	16.4			
C30TR5 4 - 07W 0581789 7099064			Crip30 8 - 07W 0581332 7099119	1.1	44	34.46	11.3			
C30TR5 5 - 07W 0581827 7099068			Crip30 9 - 07W 0581362 7099140	<0.2	29	30.84	4.4			
			Crip30 10 - 07W 0581396 7099140	2.1	17	30.87	20.2			

Fall 2011 Sample Locations



Compilation Map of Highlighted 2010-11 results



Conclusion and Recommendations 2011:

After reviewing information, analyzing data collected from field-work, trenching, assaying and pulverization methods, we can ascertain that it will be worth while to continue investigations into this claim block with a greater expenditure investment during the summer of 2011.

Though a steady producer of gold continuously since the beginning of the "Gold Rush" the only investigations seriously done on hard rock potential in the "Cripple" area were by Klondike Star Corporation, who were not able to continue work due to general company difficulties which led to these claims lapsing 2 years ago.

The fact that 100's of meters of overburden and gravels have been already been removed exposing the hard rock horizon makes exploration a lot easier, not just for trenching and sampling but for a drill sampling program as well.

A small Komatsu hoe will be required for drill target refinement on the whole claim area during next year's exploration programs.

A drilling program for shallow surface readings should be implemented according to investment ability, in the location of Cams Vein and further investigations should be done to see how far this system continues into the hard rock horizon.

A hypothesis being formed is that this "vein" along with similar structures viewed underneath & within placer gravel, "Zones of chaos"~ (Australia Hill, John Alton) and (Dago Hill, Tamarck), (Hester Creek, WasteVein) are part feeders of the placer channel.

Which having been formed due to uplift & erosion, left undisturbed by ice-ages (the 3 last recorded) and show structure of altered limestone, fault action, listwantie and mineralized quartz, sericite and chromium are very promising gold bearing habitat

Statement of Qualifications

Sylvain Montreuil:

Quartz vein prospector in the Klondike drainage and Indian River, also 60 Mile, Stewart, Peel and Porcupine rivers for over 20 years. Has been involved in the targeting, prospecting, finds and mining of successful mines all over the Klondike Plateau.

Professionally called upon to stake claims, perform surveys, carry out soil & rock sampling programs and assist geologists with scintillometer and magnometer surveys. For clients as well as on his own ventures, he has been responsible for claim recording and groupings, exploration programs and general property management to maintain claims in good standing by shafting, trenching or drilling.

A ticketed heavy equipment mechanic, welder and millwright. Former partners and employers include Joel White, A1Cat mining, Dave Farley (family), Marty Knutsen, Bob

Canamol and most recently Mark Pocklington of GoldBank mining, for whom Sylvain helped target, stake and lead an exploration program on the Leota claim block, that led to the projects successful listing on the TSX venture exchange as GoldBank Mining Corp.

Erini Petroutsas:

Has been employed 9 consecutive summers in the Dawson area as a gold prospector in the field and as geo-tech for drilling projects.

Employment experiences have included being assistant to: Joanna Hodge PhD Geology; Erin O'Brian Masters Geology; Ken Galambos Geologist; Chris Ashe Masters Ultramafic Geology; Keven Brewer MBA & Geologist. References can be requested from any of the above professionals.

Expenditures

Crip Claims,

Nov. 10-12th, 2010

3 trenches 3' wide 15' long & 6' deep. Running NW on the south bank of Cripple Hill.

PC40 Komatsu Hoe @ $100/hour for 5 hours	$500
Operator Fee, Dave Algotsson	350
3 days Sylvain Montreuil prospecting and sampling @ $350/day	1050
3 days of quad rental @ $150/day	450
	$**2,350**

**(Renewed April 21st, 2011 Report Submitted).*

Expenditure

Crip Claims,

July 20-August 2, 2011

Sylvain Montrueil

8 days prospecting. July 20- 28th. Location of hoe targets, soil & rock sampling, hand trenching (July 25th- 5 trenches at base of Trail Gulch),(July 28th- 5 trenches at top of Cripple Creek Road). $300/day. 2,400

Erini Petroutsas

2 days of soil sampling. July 23 & 24th. 2 days Recording and sampling of all new trenches. July 26th & August 2nd. $300/day.1,200

Dave Algossen

1 day operating & hoe rental. 5 trenches done at IronQ, July 22. Price a barter for 2 days of mechanical work done on machine. Approx. equivalent value: 80**0**

4x4 rental @$40/day for 8 days: 320

Acme Laboratories, Whitehorse.

Assay Costs for 110 samples at $35 each.	3,850
	$8,570

Expenditure

Crip Claims

Work Done: **Sept.29-Oct.4 2011**

6 days prospecting and sampling, general perspective on the entire Crip claims block.

2 people @ $300/day.	$1,800
Quad rental $100/day	600
1 day sample selection and data recording. 2 people @ 600/day	600
Report & printing costs	200
37 samples	

15 rock samples: Prep Method M150 @ $9.75		146
	Assay G608 @ 24.15 Fire (36.40 for metallics Fire)	362
22 soil or pre-pulverized R200-1000 @ 8.85		195
	5A Full Suite @ 21	462
	Assay Costs:	**1,165**
		$4,365

Test Pits summer/fall 2011

CRIPIRON Rusty Qz veins in graphite showing. Sample #'s correspond to trench numbers. Trenching done by Dave on July 22, 2011

#	long	wide	deep (in meters)	Description
1)	7	1	1	-Schist, sericite, oxidation.
2)	4	1	1	-Green quartzite and powdery schists.
3)	3	1	1	-Darker green, oxidation, rust.
4)	3	3	2	-Dark green, Iron oxidation, yellow powder, red quartz.
5)	3	3	2	-Closest to graphite "wall" Heavily rusted quartz running through dense graphite.

Hand Trenches done on **Crip3**. See pictures & Gps locations **TRP 1-5**.
North of main pit "the bowl". Where most gravels have been removed.

TRP

#	long	wide	deep (in meters)	Description
1)	2	2	2	-Layers of red crumbling oxidized rock.
2)	1	2	1	-A layer of graphite, chloritic oxidizing bedrock contact.
3)	2	2	2	-Listwanite with bright green & calcitic area.
4)	1	1	1	-Graphite, talc, very orange, red iron, calcite. Rust continues until it comes back in contact with dense graphite again.

Rock Samples: Not sent.

IronQ- *Trail Hill graphite fault, rusty quartz veins.*

1- Main outcrop, rusty red quartz with sulfides, running through graphite fault.
2- Trench4. Limonite stained calcite, sulfide oxidation in hydrothermaly altered graphite.
3- Trench4. Red/Orange quartz veinlets in same hydro altered graphite.
4- Green hued graphite, oxidized sulfides.

Hand Trenching. *Claims*: Crip30 to Crip28

5 trenches done over a 100 meter distance covering the definition of each showing, at Gps location **5HANTR** on claim **Crip30**.

#	long	wide	deep (in meters)	Description
1)	5	.5	.5	Defined balls of black granite. Volcanic?
2)	3	1	1	Orange oxidation against blackened green coarse grained rock wall running 15 degree NE, in contact with white bands of calcite stained orange, more "balls".
3)	5	1	1	Dyke of white powdery broken calcite, quartz.
4)	5	.5	.5	Very orange/red coated soft green rock.
5)	7	2	2	Green North East calcite vein, bordered by 6cm wide white calcite, bordered by black, heavy, orange streaked system. See pic's & samples with report.

Assayed samples from 23-24th, July 2011.

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

Client: Petroutsas, Erini
Box 431
Dawson City YT Y0B 1G0 Canada

Project: CAuCripFuc
Report Date: June 15, 2012

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
	MDL	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	2	0.01	0.
TRH-1	Soil	3.67	36.19	18.69	71.2	587	28.3	8.3	166	2.69	11.1	1.2	2.6	6.7	19.4	0.25	0.80	0.20	53	0.15	0.0
TRH-2	Soil	8.23	55.85	25.59	123.2	166	44.6	7.9	174	2.70	14.9	1.2	3.4	10.4	33.2	0.52	0.91	0.22	40	0.29	0.0
TRH-3	Soil	4.52	32.72	21.50	92.5	356	29.0	6.8	188	2.13	10.6	0.7	2.1	7.0	20.3	0.44	0.65	0.17	41	0.18	0.0
TRH-4	Soil	4.05	25.09	70.11	73.9	321	24.0	5.7	129	2.19	9.4	0.9	2.3	6.4	20.5	0.26	0.65	0.17	45	0.15	0.0
TRH-5	Soil	3.52	35.81	116.6	96.5	310	30.3	5.9	163	2.23	10.3	1.0	2.9	7.0	26.9	0.47	0.78	0.19	42	0.24	0.0
TRH-6	Soil	4.31	38.12	49.38	149.9	358	44.4	12.6	901	2.81	16.0	1.1	2.5	10.4	39.2	2.54	1.01	0.25	40	0.41	0.0
TRH-7	Soil	5.67	37.97	251.9	119.3	420	36.0	10.8	397	2.58	19.1	1.3	2.8	8.4	33.6	1.24	0.81	0.21	37	0.29	0.0
TRH-8	Soil	2.69	29.76	24.17	67.0	294	24.9	7.4	174	2.38	10.2	1.0	15.5	5.4	32.1	0.33	0.69	0.20	46	0.34	0.0
TRH-9	Soil	3.39	28.71	31.77	84.6	228	25.8	6.6	178	2.17	12.4	1.0	2.9	6.5	29.9	0.52	0.67	0.18	37	0.25	0.0
TRH-10	Soil	2.44	34.19	29.80	78.0	274	29.8	10.7	353	2.68	14.4	1.2	2.3	6.7	40.2	0.30	0.87	0.21	47	0.45	0.0
TRH-11	Soil	2.01	24.58	42.28	62.1	139	22.5	7.0	186	2.21	9.5	1.0	1.8	5.4	31.8	0.21	0.63	0.17	43	0.36	0.0
TRH-12	Soil	2.14	25.85	34.46	61.3	156	21.7	8.6	241	2.26	9.6	1.4	14.0	5.1	40.7	0.16	0.67	0.19	44	0.48	0.0
TRH-13	Soil	2.07	31.60	50.50	69.9	208	25.7	8.8	270	2.49	12.1	1.0	2.6	5.7	36.8	0.19	0.75	0.20	45	0.45	0.0
TRH-14	Soil	1.46	21.24	15.40	52.7	122	20.4	7.2	174	2.34	11.0	0.8	1.3	4.5	22.2	0.08	0.64	0.18	47	0.24	0.0
TRH-15	Soil	3.90	32.14	55.71	90.0	197	29.4	8.9	230	2.58	17.7	1.2	3.1	6.2	38.9	0.68	0.74	0.22	42	0.38	0.0
TRH-16	Soil	1.52	22.95	14.64	53.6	111	19.5	6.9	161	2.27	9.8	1.3	1.8	5.1	31.0	0.13	0.55	0.18	44	0.36	0.0
TRH-17	Soil	1.40	18.68	22.81	54.3	65	18.7	8.8	190	2.34	10.0	0.8	2.0	5.6	24.0	0.07	0.61	0.17	43	0.28	0.0
TRH-18	Soil	1.13	28.33	14.80	60.8	34	26.8	9.4	268	2.53	13.4	0.9	6.5	5.2	22.6	0.21	0.82	0.19	49	0.22	0.0
TRH-19	Soil	1.37	32.71	18.49	56.5	225	26.4	7.6	227	2.23	11.6	1.0	3.0	4.6	20.0	0.37	0.65	0.19	45	0.19	0.0
TRH-20	Soil	1.66	29.36	15.06	66.2	186	25.3	10.5	508	2.40	14.8	1.1	7.0	5.7	25.2	0.20	0.89	0.20	41	0.29	0.0
TRH-21	Soil	1.38	38.74	40.35	75.0	144	33.8	12.0	419	2.73	12.8	0.7	2.8	5.2	34.2	0.15	0.99	0.21	52	0.44	0.0
TRH-22	Soil	1.24	31.93	21.83	55.6	131	27.7	9.8	325	2.47	11.0	1.3	7.3	4.9	34.4	0.10	0.85	0.19	49	0.42	0.0
TRH-23	Soil	1.40	51.16	58.47	69.4	73	43.9	11.5	328	2.90	14.1	1.0	4.9	6.9	23.6	0.14	0.97	0.20	62	0.24	0.0

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	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
	MDL	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
TRH-1	Soil	27.3	37.0	0.61	351.8	0.046	<1	2.03	0.004	0.04	0.1	4.5	0.12	<0.02	53	1.2	0.07	5.1	0.81	<0.1
TRH-2	Soil	38.4	29.3	0.74	323.1	0.033	<1	1.63	0.007	0.05	0.2	3.8	0.06	<0.02	83	2.5	0.06	4.4	0.35	<0.1
TRH-3	Soil	27.6	30.1	0.67	309.0	0.036	<1	1.59	0.004	0.04	0.2	2.8	0.08	<0.02	45	1.1	0.06	4.4	0.43	<0.1
TRH-4	Soil	23.4	28.3	0.53	283.8	0.044	<1	1.53	0.004	0.03	0.1	3.0	0.07	<0.02	36	1.0	0.04	4.2	0.50	<0.1
TRH-5	Soil	26.3	30.0	0.62	308.0	0.052	<1	1.49	0.006	0.04	0.2	3.3	0.05	<0.02	54	0.9	0.06	4.0	0.38	<0.1
TRH-6	Soil	40.4	28.7	0.80	469.9	0.061	<1	1.79	0.010	0.05	0.1	4.5	0.06	<0.02	56	1.2	<0.02	5.3	0.50	<0.1
TRH-7	Soil	32.8	26.4	0.75	363.8	0.040	<1	1.55	0.002	0.05	0.2	3.2	0.07	<0.02	49	1.6	0.04	4.4	0.41	<0.1
TRH-8	Soil	20.5	29.0	0.53	417.0	0.052	<1	1.65	0.013	0.04	0.2	3.9	0.07	<0.02	40	0.5	0.02	4.6	0.52	<0.1
TRH-9	Soil	26.8	25.0	0.60	313.4	0.046	<1	1.48	0.007	0.05	0.2	3.0	0.05	<0.02	40	0.9	0.05	4.2	0.37	<0.1
TRH-10	Soil	21.9	31.5	0.56	437.1	0.060	<1	1.62	0.016	0.06	0.2	4.5	0.06	<0.02	40	0.2	0.04	4.4	0.53	<0.1
TRH-11	Soil	21.4	28.0	0.52	369.3	0.057	<1	1.46	0.011	0.05	0.2	3.5	0.06	<0.02	29	0.5	<0.02	4.1	0.46	<0.1
TRH-12	Soil	19.9	28.2	0.53	420.7	0.053	<1	1.56	0.012	0.05	0.2	4.0	0.06	<0.02	30	1.3	0.03	4.3	0.53	<0.1
TRH-13	Soil	20.4	30.2	0.54	438.5	0.056	<1	1.58	0.015	0.05	0.2	4.1	0.07	<0.02	51	0.4	<0.02	4.4	0.54	<0.1
TRH-14	Soil	14.3	29.2	0.42	335.1	0.044	<1	1.48	0.008	0.04	0.2	3.9	0.07	<0.02	44	0.4	0.02	4.1	0.63	<0.1
TRH-15	Soil	26.9	26.9	0.64	337.1	0.048	<1	1.62	0.009	0.05	0.2	3.6	0.05	<0.02	47	1.4	0.03	4.5	0.43	<0.1
TRH-16	Soil	18.0	26.2	0.42	323.8	0.052	<1	1.47	0.010	0.04	0.2	3.6	0.07	<0.02	25	0.6	<0.02	4.2	0.58	<0.1
TRH-17	Soil	16.6	28.8	0.42	304.1	0.052	<1	1.51	0.011	0.05	0.2	3.6	0.06	<0.02	21	0.3	0.04	4.3	0.52	<0.1
TRH-18	Soil	16.4	31.0	0.43	288.4	0.051	<1	1.51	0.007	0.07	0.2	5.2	0.06	<0.02	33	0.3	0.04	4.2	0.51	<0.1
TRH-19	Soil	22.2	25.1	0.35	416.7	0.037	<1	1.59	0.007	0.07	0.2	3.6	0.08	<0.02	34	0.5	0.04	4.4	0.61	<0.1
TRH-20	Soil	19.7	29.2	0.37	301.3	0.052	<1	1.32	0.007	0.05	0.2	3.7	0.07	<0.02	68	0.4	0.05	3.6	0.59	<0.1
TRH-21	Soil	16.2	33.0	0.57	425.5	0.065	1	1.52	0.020	0.06	0.3	4.7	0.08	<0.02	40	0.3	0.03	4.5	0.76	<0.1
TRH-22	Soil	15.9	32.8	0.48	428.8	0.057	<1	1.49	0.015	0.05	0.2	4.5	0.07	<0.02	50	0.3	<0.02	4.2	0.67	<0.1
TRH-23	Soil	19.1	41.5	0.53	494.8	0.053	<1	2.17	0.006	0.08	0.1	7.0	0.10	<0.02	55	0.5	0.06	5.6	0.80	<0.1

CERTIFICATE OF ANALYSIS DAW12000001.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
	MDL	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	2	0.01	0.0
TRH-24	Soil	1.21	20.69	16.13	64.3	74	23.1	9.8	378	2.38	10.8	0.6	6.5	3.8	20.7	0.19	0.97	0.23	47	0.21	0.0
TRH-25	Soil	1.22	33.11	18.80	59.1	83	30.1	14.5	287	2.73	11.9	0.7	5.4	5.6	14.3	0.13	1.02	0.22	62	0.13	0.0
TRH-26	Soil	1.26	30.65	14.81	55.2	36	22.1	7.5	159	2.56	10.9	0.8	3.1	4.9	12.6	0.10	0.88	0.20	58	0.10	0.0
TRH-27	Soil	1.38	20.46	26.87	64.1	189	21.9	9.1	177	2.61	9.8	0.4	1.7	3.0	16.6	0.18	0.87	0.19	63	0.15	0.0
TRH-28	Soil	1.33	25.54	23.72	57.9	60	30.0	14.4	270	2.80	11.2	0.8	3.6	5.5	20.2	0.11	0.73	0.22	62	0.20	0.0
TRH-29	Soil	1.28	23.20	15.82	63.3	80	22.5	8.7	264	2.65	12.2	0.7	1.1	5.5	15.5	0.10	0.93	0.22	62	0.15	0.0
TRH-30	Soil	0.92	16.02	12.31	61.6	144	18.4	6.8	170	2.21	9.2	0.4	2.6	3.2	16.2	0.22	0.77	0.17	54	0.14	0.0
TRH-31	Soil	1.11	16.86	15.61	66.4	96	23.3	9.7	212	2.84	10.2	0.5	0.5	4.2	14.9	0.14	0.64	0.21	68	0.14	0.0
TRH-32	Soil	1.01	11.15	13.00	64.6	200	17.9	14.7	1000	2.32	7.0	0.4	1.2	2.8	18.9	0.15	0.53	0.19	55	0.17	0.0
TRH-33	Soil	0.84	16.73	15.98	51.1	46	15.1	5.6	119	1.72	8.0	0.8	0.5	5.2	10.2	0.14	0.65	0.24	38	0.10	0.0
WALL-VEIN 2	Soil	0.37	4.99	36.45	6.4	69	0.8	0.2	2	0.08	3.2	1.5	3.3	11.1	6.5	0.07	0.07	0.12	<2	0.02	0.0
CR/R-1	Soil	9.68	39.50	27.60	90.1	170	46.8	8.4	168	2.78	22.8	1.8	3.3	9.3	25.2	0.20	0.95	0.23	45	0.22	0.0
CR/R-2	Soil	4.58	35.36	16.71	78.8	286	31.0	6.7	173	2.41	17.6	1.0	1.8	6.6	28.6	0.20	0.86	0.20	46	0.25	0.0
CR/R-3	Soil	4.62	23.63	15.55	53.7	138	19.9	6.3	136	2.10	29.6	1.0	1.6	6.1	22.7	0.10	0.72	0.14	40	0.18	0.0
CR/R-4	Soil	4.50	22.54	16.67	58.5	128	20.1	7.4	144	2.30	38.4	1.1	2.2	7.1	18.6	0.07	0.84	0.17	40	0.15	0.0
CR/R-5	Soil	3.45	20.90	17.02	49.7	109	19.0	7.0	175	2.26	27.1	0.9	1.5	4.9	21.2	0.13	0.83	0.17	43	0.18	0.0
CR/R-6	Soil	2.33	16.92	12.72	46.6	122	16.4	6.0	158	2.01	12.1	0.8	1.4	5.2	18.6	0.07	0.59	0.15	39	0.20	0.0
CR/R-7	Soil	2.30	25.40	13.86	53.0	170	22.5	7.4	221	2.38	14.7	1.3	7.3	5.4	27.7	0.08	0.64	0.17	45	0.31	0.0
CR/R-8	Soil	1.77	25.03	13.06	56.1	127	20.8	7.0	233	2.26	13.4	1.1	1.9	5.8	27.4	0.07	0.62	0.17	42	0.30	0.0
CR/R-9	Soil	1.84	23.43	12.46	51.5	91	20.0	5.9	179	1.98	12.2	0.8	3.1	6.4	25.2	0.07	0.56	0.14	37	0.30	0.0
CR/R-10	Soil	1.83	15.55	11.71	48.2	87	16.1	5.4	129	2.03	10.4	0.8	5.4	4.2	22.9	0.06	0.50	0.16	41	0.27	0.0
CR/R-11	Soil	1.67	18.59	12.97	47.9	95	17.1	6.0	154	2.10	10.9	0.9	4.4	4.9	26.9	0.05	0.56	0.15	41	0.32	0.0
CR/R-12	Soil	3.12	28.02	18.65	72.5	230	26.9	11.0	461	2.73	18.8	1.0	9.5	8.7	30.5	0.22	0.81	0.18	40	0.35	0.0
CR/R-13	Soil	2.41	27.04	18.86	70.2	187	26.1	10.5	438	2.52	15.1	1.0	2.6	7.3	29.6	0.24	0.76	0.19	36	0.36	0.0
CR/R-14	Soil	1.71	26.31	13.81	63.5	136	21.3	7.6	247	2.38	12.5	1.3	6.4	6.0	30.4	0.14	0.62	0.18	40	0.39	0.0
CR/R-15	Soil	2.31	26.53	19.79	64.9	137	22.4	7.7	229	2.38	12.5	1.4	3.8	7.0	28.0	0.07	0.72	0.19	37	0.32	0.0
CR/R-16	Soil	2.24	25.06	15.65	57.4	128	20.5	6.9	206	2.29	13.2	1.5	1.8	6.2	29.2	0.09	0.67	0.20	37	0.33	0.0
CR/R-17	Soil	1.49	23.23	17.11	57.5	112	18.6	7.0	239	2.19	10.6	1.2	0.8	6.1	28.1	0.08	0.61	0.17	32	0.33	0.0
CR/R-18	Soil	1.50	29.85	18.05	61.6	106	26.1	8.9	356	2.57	10.5	1.1	2.6	7.4	31.3	0.07	0.69	0.20	40	0.37	0.0
CR/R-19	Soil	0.82	28.00	16.89	53.7	37	21.9	6.3	333	2.25	9.4	1.6	14.5	10.2	21.4	0.04	0.62	0.20	32	0.25	0.0

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F
	Analyte	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	pp
	MDL	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.
TRH-24	Soil	11.9	28.9	0.36	463.4	0.023	1	1.48	0.003	0.06	0.1	2.7	0.08	<0.02	15	0.4	0.02	4.1	0.54	0.1	0.
TRH-25	Soil	15.2	40.4	0.37	417.4	0.045	<1	2.01	0.004	0.05	<0.1	5.4	0.10	<0.02	98	0.2	0.02	5.2	0.79	<0.1	0.
TRH-26	Soil	15.1	33.0	0.37	286.9	0.040	<1	1.82	0.003	0.04	<0.1	3.9	0.09	<0.02	26	0.1	0.07	4.8	0.71	<0.1	0.
TRH-27	Soil	9.8	32.2	0.34	442.3	0.029	<1	1.95	0.002	0.06	<0.1	2.9	0.09	<0.02	26	0.3	0.05	5.5	0.66	<0.1	0.
TRH-28	Soil	18.1	39.7	0.45	554.6	0.045	<1	2.04	0.005	0.04	0.1	5.5	0.10	<0.02	40	<0.1	0.11	5.4	1.24	<0.1	0.
TRH-29	Soil	15.0	36.9	0.36	462.4	0.028	<1	2.18	0.002	0.04	0.2	4.0	0.12	<0.02	37	0.2	<0.02	5.5	0.76	<0.1	0.
TRH-30	Soil	11.4	26.6	0.28	422.2	0.024	1	1.65	0.002	0.03	0.1	2.3	0.10	<0.02	19	<0.1	<0.02	4.8	0.64	<0.1	0.
TRH-31	Soil	11.8	38.8	0.36	392.8	0.045	<1	2.26	0.004	0.04	0.2	3.6	0.12	<0.02	11	<0.1	0.07	6.2	1.00	<0.1	0.
TRH-32	Soil	11.1	28.1	0.33	626.8	0.034	<1	1.77	0.005	0.04	0.1	2.5	0.10	<0.02	26	0.1	<0.02	5.1	0.70	<0.1	<0.
TRH-33	Soil	13.1	21.9	0.29	234.8	0.028	<1	1.38	0.002	0.05	0.1	2.1	0.07	<0.02	19	0.1	<0.02	3.8	0.56	<0.1	0.
WALL-VEIN 2	Soil	45.7	1.0	0.01	78.7	<0.001	<1	0.11	0.002	0.08	<0.1	0.5	0.04	<0.02	11	<0.1	<0.02	0.2	0.55	<0.1	0.
CR/R-1	Soil	32.2	35.6	0.90	438.0	0.029	<1	1.75	0.006	0.04	0.3	4.2	0.08	<0.02	85	1.8	0.12	5.4	0.38	<0.1	0.
CR/R-2	Soil	26.7	29.8	0.61	335.9	0.053	<1	1.54	0.008	0.04	0.2	3.6	0.06	<0.02	72	1.4	0.03	4.5	0.44	<0.1	0.
CR/R-3	Soil	19.8	22.7	0.43	337.2	0.057	<1	1.22	0.009	0.05	0.1	3.5	0.28	0.02	22	0.7	0.05	3.4	0.33	<0.1	0.
CR/R-4	Soil	22.7	25.0	0.44	354.1	0.047	<1	1.28	0.006	0.04	0.1	3.5	0.30	<0.02	29	0.5	<0.02	3.4	0.35	<0.1	0.
CR/R-5	Soil	17.6	26.5	0.38	361.7	0.045	<1	1.33	0.006	0.04	0.2	3.2	0.15	<0.02	40	0.5	<0.02	3.8	0.36	<0.1	0.
CR/R-6	Soil	16.5	25.3	0.41	313.6	0.042	<1	1.32	0.007	0.04	0.2	2.9	0.09	<0.02	17	0.6	0.03	3.8	0.38	<0.1	0.
CR/R-7	Soil	18.2	30.2	0.46	424.1	0.044	<1	1.50	0.010	0.04	0.2	4.3	0.08	<0.02	36	0.5	<0.02	4.3	0.45	<0.1	0.
CR/R-8	Soil	18.1	28.2	0.46	414.8	0.045	<1	1.46	0.010	0.04	0.1	4.2	0.09	<0.02	38	0.6	<0.02	4.1	0.45	<0.1	0.
CR/R-9	Soil	21.1	25.5	0.45	370.7	0.051	<1	1.18	0.010	0.04	0.2	3.6	0.08	<0.02	33	0.6	<0.02	3.4	0.36	<0.1	0.
CR/R-10	Soil	14.7	25.8	0.41	332.2	0.039	<1	1.40	0.008	0.03	0.2	3.0	0.09	<0.02	15	0.4	<0.02	4.0	0.48	<0.1	0.
CR/R-11	Soil	16.5	26.7	0.43	352.2	0.047	<1	1.38	0.009	0.04	0.1	3.3	0.08	<0.02	18	0.5	0.05	3.9	0.42	<0.1	0.
CR/R-12	Soil	22.4	28.1	0.63	354.8	0.042	<1	1.56	0.010	0.05	0.1	3.5	0.09	<0.02	38	0.3	0.03	4.2	0.42	<0.1	0.
CR/R-13	Soil	21.4	25.5	0.54	355.6	0.039	<1	1.46	0.009	0.05	0.1	3.4	0.08	<0.02	41	0.4	<0.02	4.3	0.43	<0.1	0.
CR/R-14	Soil	19.8	27.6	0.49	395.7	0.046	<1	1.52	0.010	0.05	0.2	3.7	0.08	<0.02	37	0.3	<0.02	4.5	0.46	<0.1	0.
CR/R-15	Soil	19.7	27.6	0.50	373.0	0.043	<1	1.58	0.008	0.05	0.2	3.8	0.09	<0.02	52	0.1	<0.02	4.3	0.45	<0.1	0.
CR/R-16	Soil	17.2	26.7	0.49	384.3	0.037	<1	1.44	0.009	0.04	0.2	3.6	0.10	<0.02	31	0.2	<0.02	4.5	0.43	<0.1	0.
CR/R-17	Soil	16.5	22.9	0.46	334.5	0.034	<1	1.39	0.009	0.07	<0.1	3.3	0.07	<0.02	29	0.3	<0.02	3.9	0.47	<0.1	0.
CR/R-18	Soil	21.1	33.0	0.64	463.2	0.044	<1	1.70	0.011	0.06	0.1	4.7	0.07	<0.02	32	0.1	<0.02	5.0	0.57	<0.1	0.
CR/R-19	Soil	27.5	24.7	0.47	381.2	0.028	<1	1.54	0.006	0.09	<0.1	5.7	0.09	<0.02	31	0.4	<0.02	4.4	0.62	<0.1	0.

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
TRH-24	Soil	0.53	8.2	8.8	<0.05	1.7	3.60	22.7	0.06	1	0.6	11.8	<10	<2
TRH-25	Soil	0.44	9.8	11.1	<0.05	12.0	6.60	30.4	<0.02	3	0.8	11.6	<10	<2
TRH-26	Soil	0.43	7.5	6.8	<0.05	6.7	4.64	28.3	0.02	<1	0.4	11.7	<10	<2
TRH-27	Soil	0.79	8.8	26.0	<0.05	1.9	2.33	17.6	<0.02	1	0.6	12.5	<10	<2
TRH-28	Soil	0.66	10.3	19.8	<0.05	7.7	8.13	35.3	<0.02	1	0.8	12.2	<10	<2
TRH-29	Soil	0.66	6.3	6.2	<0.05	5.9	5.16	30.1	0.02	<1	0.6	12.6	<10	<2
TRH-30	Soil	0.78	5.5	2.8	<0.05	1.7	2.39	21.5	0.02	<1	0.4	11.1	<10	<2
TRH-31	Soil	0.70	8.2	5.3	<0.05	5.0	2.77	22.3	0.03	<1	0.5	11.2	<10	<2
TRH-32	Soil	0.70	8.3	2.7	<0.05	1.3	2.42	21.2	0.02	<1	0.5	10.3	<10	<2
TRH-33	Soil	0.48	6.6	3.9	<0.05	3.2	3.30	23.8	<0.02	<1	0.3	10.3	<10	2
WALL-VEIN 2	Soil	<0.02	4.6	0.6	<0.05	6.7	11.95	58.0	<0.02	<1	<0.1	0.9	<10	<2
CR/R-1	Soil	0.23	5.7	10.4	<0.05	10.2	11.15	58.0	<0.02	<1	0.6	13.8	<10	<2
CR/R-2	Soil	0.21	5.5	3.5	<0.05	12.6	9.08	45.8	<0.02	<1	0.5	13.2	<10	<2
CR/R-3	Soil	0.26	4.6	3.3	<0.05	10.5	8.33	37.5	<0.02	<1	0.5	9.7	<10	<2
CR/R-4	Soil	0.33	5.3	2.5	<0.05	9.7	8.41	42.3	<0.02	<1	0.6	10.8	<10	<2
CR/R-5	Soil	0.46	5.2	6.5	<0.05	3.9	6.58	31.9	<0.02	<1	0.4	10.0	<10	<2
CR/R-6	Soil	0.37	5.1	1.3	<0.05	6.5	5.23	29.8	<0.02	<1	0.3	12.0	<10	<2
CR/R-7	Soil	0.31	6.0	3.5	<0.05	6.8	9.10	32.5	<0.02	<1	0.6	11.9	<10	<2
CR/R-8	Soil	0.31	5.9	2.5	<0.05	6.7	9.06	32.7	<0.02	<1	0.5	11.9	<10	<2
CR/R-9	Soil	0.48	4.3	3.8	<0.05	6.4	10.34	37.5	<0.02	<1	0.3	10.4	<10	<2
CR/R-10	Soil	0.46	6.4	1.5	<0.05	2.6	5.27	28.2	<0.02	<1	0.3	11.4	<10	<2
CR/R-11	Soil	0.40	5.4	4.0	<0.05	3.3	6.67	29.8	<0.02	<1	0.4	11.4	<10	<2
CR/R-12	Soil	0.20	5.4	2.9	<0.05	11.2	9.95	42.3	<0.02	<1	0.7	13.3	<10	<2
CR/R-13	Soil	0.35	5.4	5.8	<0.05	5.0	9.39	43.7	<0.02	<1	0.5	11.8	<10	<2
CR/R-14	Soil	0.54	5.9	2.0	<0.05	4.7	8.63	35.2	<0.02	1	0.5	11.9	<10	<2
CR/R-15	Soil	0.37	6.3	10.2	<0.05	7.7	9.04	37.0	<0.02	<1	0.5	13.8	<10	<2
CR/R-16	Soil	0.37	5.7	3.7	<0.05	4.9	8.24	29.2	0.03	<1	0.5	11.7	<10	<2
CR/R-17	Soil	0.34	6.6	6.6	<0.05	4.2	8.89	29.8	<0.02	<1	0.3	11.4	13	<2
CR/R-18	Soil	0.34	7.9	6.9	<0.05	6.5	12.78	38.2	0.02	<1	0.8	15.6	<10	2
CR/R-19	Soil	0.10	9.8	4.7	<0.05	9.4	16.59	47.4	<0.02	<1	0.6	13.2	<10	<2

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
	MDL	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	2	0.01	0
CR/R-20	Soil	0.73	22.36	17.00	77.5	50	17.0	7.8	402	2.25	6.1	1.3	0.9	13.6	19.4	0.07	0.51	0.25	23	0.28	0.
CR/R-21	Soil	0.92	17.64	16.98	42.4	46	15.8	5.8	212	1.98	8.4	1.1	0.5	6.7	19.1	0.03	0.52	0.17	34	0.21	0.
CR/R-22	Soil	1.85	17.58	21.45	63.1	67	13.6	6.1	256	2.25	10.0	2.5	0.7	9.0	22.9	0.11	0.66	0.22	29	0.28	0.
CR/R-23	Soil	1.28	44.29	24.28	67.9	39	37.0	9.2	240	2.82	20.2	1.4	2.3	9.6	19.2	0.06	0.87	0.27	36	0.19	0.
CR/R-24	Soil	1.24	45.97	25.46	70.3	51	36.9	8.9	210	2.85	25.3	1.9	2.2	9.4	17.1	0.07	0.77	0.35	35	0.16	0.
CR/R-25	Soil	1.13	7.13	13.82	28.8	28	6.6	3.8	143	1.47	10.6	0.7	0.6	1.7	9.7	0.08	0.51	0.18	26	0.08	0.
CR/R-26	Soil	0.95	15.85	10.87	31.0	35	15.3	5.5	129	1.50	9.4	0.5	4.9	4.7	11.3	0.06	0.60	0.21	27	0.12	0.
CR/R-27	Soil	0.93	34.41	15.00	44.7	30	24.7	10.0	254	2.36	11.1	0.6	7.3	5.8	19.6	0.05	0.70	0.22	49	0.23	0.
CR/R-28	Soil	0.93	21.40	12.17	43.0	68	22.8	8.4	131	2.22	9.5	0.7	3.4	5.5	13.3	0.03	0.55	0.19	48	0.12	0.
CR/R-29	Soil	0.41	4.57	8.49	20.6	12	5.8	2.3	50	0.91	4.2	0.4	1.6	3.3	6.2	<0.01	0.25	0.11	18	0.05	0.
CR/R-30	Soil	0.44	9.11	11.29	32.0	33	7.5	3.0	69	1.05	5.6	0.4	18.9	3.9	5.7	0.06	0.40	0.17	19	0.05	0.
CR/R-31	Soil	0.41	6.56	10.54	33.2	10	7.0	3.1	71	1.05	5.0	0.4	2.3	4.2	5.4	0.04	0.28	0.16	16	0.05	0.

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	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
	MDL	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
CR/R-20	Soil	35.6	17.9	1.10	332.3	0.015	<1	1.78	0.006	0.07	0.1	4.0	0.07	<0.02	31	<0.1	<0.02	5.2	0.59	<0.1
CR/R-21	Soil	20.8	22.9	0.44	304.1	0.033	<1	1.30	0.007	0.06	0.1	3.9	0.05	<0.02	15	0.2	0.04	3.5	0.46	<0.1
CR/R-22	Soil	35.9	11.5	0.24	854.1	0.011	<1	0.98	0.009	0.10	<0.1	4.6	0.14	<0.02	24	0.2	<0.02	2.2	1.73	<0.1
CR/R-23	Soil	25.9	25.9	0.32	407.3	0.032	<1	1.17	0.009	0.06	0.1	4.7	0.07	<0.02	35	0.4	0.07	3.1	0.48	<0.1
CR/R-24	Soil	27.6	27.1	0.32	448.4	0.026	<1	1.36	0.005	0.08	<0.1	4.5	0.08	<0.02	38	0.5	<0.02	3.9	0.61	<0.1
CR/R-25	Soil	9.7	10.3	0.16	168.6	0.016	<1	0.56	0.002	0.07	0.1	1.0	0.04	<0.02	5	0.2	0.03	2.0	0.17	<0.1
CR/R-26	Soil	12.0	15.7	0.26	189.5	0.044	<1	1.04	0.004	0.06	<0.1	2.1	0.06	<0.02	15	0.2	0.02	2.7	0.35	<0.1
CR/R-27	Soil	17.5	29.9	0.43	398.1	0.057	1	1.58	0.011	0.07	0.1	5.3	0.08	<0.02	57	0.1	<0.02	4.5	0.55	<0.1
CR/R-28	Soil	19.0	32.1	0.39	284.0	0.047	<1	1.80	0.004	0.06	<0.1	4.6	0.08	<0.02	22	0.2	<0.02	4.7	0.64	<0.1
CR/R-29	Soil	9.6	11.0	0.19	98.9	0.022	<1	0.89	0.001	0.05	<0.1	1.4	0.05	<0.02	9	<0.1	<0.02	2.1	0.37	<0.1
CR/R-30	Soil	11.7	12.8	0.25	159.5	0.021	<1	1.00	<0.001	0.06	<0.1	1.5	0.06	<0.02	7	0.1	<0.02	2.5	0.47	<0.1
CR/R-31	Soil	12.3	12.3	0.28	154.1	0.015	<1	0.96	<0.001	0.06	<0.1	1.5	0.06	<0.02	10	<0.1	<0.02	2.3	0.44	<0.1

CERTIFICATE OF ANALYSIS DAW12000001.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
CR/R-20	Soil	0.07	6.9	2.7	<0.05	6.8	18.51	55.0	<0.02	<1	0.5	30.0	<10	<2
CR/R-21	Soil	0.22	7.8	9.4	<0.05	5.5	9.02	35.7	<0.02	<1	0.3	13.6	<10	<2
CR/R-22	Soil	0.13	9.1	2.4	<0.05	7.3	16.48	65.8	0.02	<1	0.5	5.2	<10	<2
CR/R-23	Soil	0.12	5.9	4.3	<0.05	10.9	9.78	45.2	<0.02	<1	0.5	8.8	<10	<2
CR/R-24	Soil	0.15	8.4	3.2	<0.05	11.7	10.47	52.6	<0.02	<1	0.8	8.6	11	<2
CR/R-25	Soil	0.33	5.4	8.0	<0.05	0.3	2.69	18.3	<0.02	<1	0.3	4.0	<10	<2
CR/R-26	Soil	0.52	6.5	1.7	<0.05	9.6	3.60	22.7	0.04	<1	0.4	8.3	11	<2
CR/R-27	Soil	0.28	8.7	5.4	<0.05	10.1	10.01	33.6	0.02	<1	0.6	12.3	<10	<2
CR/R-28	Soil	0.59	10.2	2.8	<0.05	6.3	5.34	35.3	<0.02	<1	0.6	13.4	<10	<2
CR/R-29	Soil	0.39	8.2	3.0	<0.05	2.5	2.58	18.3	<0.02	<1	0.2	6.0	<10	<2
CR/R-30	Soil	0.41	8.9	1.8	<0.05	2.1	2.98	22.4	<0.02	<1	0.2	8.0	<10	<2
CR/R-31	Soil	0.34	10.1	4.0	<0.05	6.6	3.28	24.4	0.02	<1	0.2	7.0	<10	<2

Company : Petroutsas, Erini

Submitted by : Erini Petroutsas

Date Received : 08-Nov-12

Date Reported : 29-Nov-12

Acme file # :WHI12000950

Samples were run as received.

Analysis performed by Neutron Activation (Method BQ-NAA-1)

A negative result denotes "Less Than".

Becquerel

A Maxxam Company

6790 Kitimat Rd, Unit #4

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Ph: (905) 826-3080 Fax : (905) 826-4151

ISO 17025

For Scope of Accreditation No. 422

Pour la portée d'accréditation no. 422

T12-02263.0

Note : Mo results are interfered with by Mo production from U fission. Sample # 104 was not received. Some detection limits are elevated due to elevated Fe/Co/Sc...

#	ID	Wt	Sb	As	Ba	Br	Ca	Ce	Cs	Cr	Co	Eu	Au	Hf	Ir	Fe	La	Lu	Mo	Nd	Ni	Rb	Sm	Sc	Se	Ag	Na	Sr	Ta	Tb	Th	W	U	Yb	Zn
		grams	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
78	Cr5De1	13.25	1.2	37.0	730	-1.1	3	47	4	29	206	2.8	-9	7	-13	20.50	29.0	1.40	-7	25	330	36	8.9	47.3	-3	-5	1.26	-500	1.4	1.9	8.7	4	23.0	8.7	1300
79	Cr5De2	14.82	1.5	186.0	1100	-0.5	3	38	2	180	137	3.0	-7	8	-11	12.70	22.0	1.30	-6	23	-100	26	9.2	44.6	-3	-5	1.02	-500	2.0	1.6	4.6	2	2.3	8.2	160
80	ACS	14.68	0.6	2.2	1700	-0.5	3	53	3	41	7	1.3	-2	4	-5	2.61	29.0	0.37	-3	19	-100	79	4.8	9.2	-3	-5	1.84	-500	0.6	0.7	10.0	2	2.5	2.3	-50
81	ACS2	16.41	0.7	2.7	1700	-0.5	3	54	3	40	7	1.1	-2	4	-5	2.43	29.0	0.37	-3	20	-100	80	4.8	9.2	-3	-5	1.87	-500	-0.5	0.8	10.0	2	2.5	2.3	-50
82	C23S1	14.19	1.2	27.0	1200	1.1	-1	36	4	69	11	0.7	-2	7	-5	3.88	21.0	0.27	-3	15	-100	87	3.0	10.5	-3	-5	1.30	-500	1.1	-0.5	7.9	3	2.4	1.6	84
83	C23S2	14.18	1.1	20.0	1600	0.7	-1	64	5	75	14	1.1	-2	6	-5	3.77	33.0	0.34	-3	23	-100	94	5.2	13.6	-3	-5	1.30	-500	1.0	0.6	11.0	2	2.9	2.1	84
84	C23S3	13.24	6.0	121.0	2700	-0.5	-1	67	5	110	12	1.2	-4	5	-5	3.38	37.0	0.41	9	27	-100	97	6.1	12.2	-3	-5	0.37	-500	0.7	0.6	10.0	3	3.9	2.5	140
85	CR23S2	15.64	1.1	14.0	2100	-0.5	-1	97	4	6	1	0.9	-2	6	-5	2.99	52.0	0.43	-3	33	-100	130	7.5	7.2	-3	-5	0.26	-500	1.2	1.0	10.0	7	2.7	2.7	-50
86	PG28	16.44	1.2	9.4	1200	-0.5	-1	10	-1	9	1	0.2	7	-1	-5	1.75	6.1	0.10	-1	-5	-100	57	0.9	1.6	-3	-5	0.19	-500	-0.5	-0.5	1.9	-1	2.1	0.6	-50
87	PG28-2	15.16	4.9	10.0	1200	-0.5	-1	65	-1	15	-1	0.6	15	4	-5	1.49	35.0	0.21	-2	20	-100	95	4.3	5.2	-3	-5	0.08	-500	0.6	0.5	6.5	6	2.1	1.2	-50
88	Crip30Tr5P	15.71	0.3	5.6	640	-0.5	5	55	-1	140	44	2.4	-2	6	-5	8.39	28.0	0.68	-4	31	-100	16	8.5	28.8	-3	-5	2.09	-500	1.3	1.2	2.9	-1	1.0	4.3	150
89	Crip30TR2	16.15	0.3	16.0	800	-0.5	4	71	-1	110	24	2.1	-2	7	-5	5.94	37.0	0.57	-4	31	-100	57	8.6	22.0	-3	-5	1.97	-500	0.9	1.2	8.1	2	2.5	3.8	100
90	Crip30TR2P	16.77	0.3	13.0	740	-0.5	4	70	2	110	32	2.0	-2	8	-5	6.43	36.0	0.60	-4	30	-100	62	8.5	23.7	-3	-5	1.94	-500	1.1	1.2	7.3	-1	2.1	3.8	120
91	Crip30TR2Pb	15.87	1.0	6.4	2000	-0.5	2	51	2	36	6	1.2	-2	5	-5	3.12	27.0	0.49	-3	20	-100	56	4.9	9.1	-3	-5	1.82	-500	0.9	0.7	11.0	-1	2.7	2.9	-50
92	TRP/R-1	14.47	0.7	3.5	670	-0.5	2	65	2	160	33	2.2	-2	8	-5	8.79	32.0	0.59	-5	25	-100	24	7.0	31.8	-3	-5	1.41	-500	2.0	1.1	4.1	-1	1.5	3.8	470
93	TRP/R-2	16.19	1.2	10.0	760	-0.5	1	45	2	300	4	1.3	-2	3	-5	4.21	36.0	0.46	-3	26	-100	26	6.2	12.0	-3	-5	0.35	-500	-0.5	0.7	4.3	3	5.1	2.8	88
94	TRP/R-3	12.93	0.4	15.0	-50	-0.5	-1	-3	-1	2480	48	0.5	-2	-1	-5	5.96	-0.5	0.12	-3	-5	650	-15	1.1	28.2	-3	-5	-0.01	-500	-0.5	-0.5	-0.2	-1	-0.5	1.0	84
95	TRP/R-4	19.23	1.6	466.0	110	-0.5	5	-3	1	1210	11	-0.2	-2	-1	-5	3.44	-0.5	-0.05	-2	-5	-100	-15	0.1	4.3	-3	-5	0.03	-500	-0.5	-0.5	-0.2	-1	-0.5	-0.2	-50
96	C3TG	17.10	7.7	61.1	-50	-0.5	-1	-3	-1	29	5	-0.2	11	-1	-5	7.45	0.8	-0.05	-1	-5	-100	-15	0.1	0.4	22	-5	-0.01	-500	-0.5	-0.5	-0.2	-1	1.1	-0.2	-50
97	C3TG2	15.22	3.0	48.0	3100	-0.5	-1	47	4	82	4	1.0	-2	2	-5	2.36	26.0	0.34	43	21	-100	52	5.6	9.1	-3	-5	0.59	-500	0.6	0.8	5.9	2	6.4	2.3	130

Company : Petroutsas, Erini

Submitted by : Erini Petroutsas

Date Received : 08-Nov-12

Date Reported : 20-Nov-12

T12-02262.0

Becquerel
A Maxxam Company
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ISO 17025

Acme file # :WHI12000989

Samples were run as received.

Analysis performed by Neutron Activation (Method BQ-NAA-1)

A negative result denotes "Less Than".

Note : Mo results are interfered with by Mo production from U fission.

#	ID	Wt	Sb	As	Ba	Br	Ca	Ce	Cs	Cr	Co	Eu	Au	Hf	Ir	Fe
		grams	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	%
1	W7	10.81	0.4	165.0	970	-0.5	6	26	3	43	33	1.0	754	2	-5	10.90
2	W7west	12.69	0.6	15.0	260	-0.5	9	5	-1	24	8	3.2	-2	-1	-5	6.76
3	CripF.13	15.01	5.4	92.0	170	-0.5	5	-3	-1	9	20	-0.2	560	-1	-5	40.10
4	W5	11.62	0.1	6.9	340	-0.5	-1	23	1	23	1	0.5	366	1	-5	0.86

#	ID	La	Lu	Hg	Mo	Nd	Ni	Rb	Sm	Sc	Se	Ag	Na	Sr	Ta	Tb	Th	Sn	W	U	Yb	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1	W7	16.0	1.70	-1	-2	12	340	69	3.1	12.8	7	-5	0.54	-500	0.5	0.5	6.7	-100	3	1.7	7.6	69
2	W7west	5.8	4.00	-1	-2	5	-100	-15	4.9	19.8	4	-5	0.09	-500	-0.5	3.9	4.0	-100	-1	1.3	28.0	-50
3	CripF.13	2.0	0.06	-1	-3	-5	-100	-15	0.5	1.5	-3	-5	0.04	-500	-0.5	-0.5	0.4	-100	1	-0.5	0.4	-50
4	W5	16.0	0.11	-1	-1	12	-100	24	2.6	3.1	-3	-5	0.03	-500	-0.5	-0.5	3.5	-100	2	2.4	0.7	-50

Client: **Petroutsas, Erini**
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AcmeLabs™
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www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Submitted By:	Erini Petroutsas
Receiving Lab:	Canada-Whitehorse
Received:	October 01, 2012
Report Date:	May 30, 2013
Page:	1 of 3

CERTIFICATE OF ANALYSIS WHI12000951.1

CLIENT JOB INFORMATION

Project:	Petra
Shipment ID:	
P.O. Number	
Number of Samples:	50

SAMPLE DISPOSAL

DISP-PLP	Dispose of Pulp After 90 days
DISP-RJT-SOIL	Immediate Disposal of Soil Reject

Acme 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
Dry at 60C	50	Dry at 60C			WHI
SS80	50	Dry at 60C sieve 100g to -80 mesh			WHI
1F03	50	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Petroutsas, Erini
Box 431
Dawson City YT Y0B 1G0
CANADA

CC:

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Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
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Client: **Petroutsas, Erini**
Box 431
Dawson City YT Y0B 1G0 CANADA

Project: Petra
Report Date: May 30, 2013

CERTIFICATE OF ANALYSIS WHI12000951.1

	Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	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	2	0.01	0.001
BL1	Soil	2.93	33.44	12.71	79.1	286	39.0	11.0	319	2.58	13.2	1.6	4.7	6.1	13.9	0.14	1.38	0.23	49	0.12	0.027
In167 B	Soil	1.08	13.14	30.16	43.7	85	9.4	5.0	190	1.59	5.0	3.0	4.1	11.4	10.2	0.05	0.29	0.19	19	0.08	0.029
In167 C	Soil	0.86	17.77	27.21	53.9	53	20.5	9.6	315	2.39	9.8	1.0	5.2	10.4	11.6	0.41	0.62	0.21	37	0.09	0.025
In167 D	Soil	0.84	12.70	28.67	30.9	52	7.1	3.3	113	1.51	8.5	1.5	2.9	8.6	8.3	0.11	0.42	0.22	18	0.05	0.015
In167 E	Soil	1.39	18.37	30.39	61.3	47	20.4	8.2	244	2.81	11.9	0.8	5.6	7.2	8.9	0.30	0.80	0.23	48	0.07	0.029
In167 F	Soil	1.47	6.39	14.80	24.0	46	5.1	2.3	143	1.77	8.2	0.5	3.5	2.0	7.0	0.24	0.46	0.30	69	0.05	0.031
In-Rd	Soil	35.89	54.13	11.96	113.3	504	24.5	5.6	351	2.57	17.1	2.9	4.3	3.9	63.4	0.75	0.99	0.10	43	1.70	0.077
CarmS2	Soil	1.53	5.20	21.66	39.5	36	3.6	1.2	33	1.02	25.7	2.1	4.8	14.0	7.5	0.11	0.20	0.11	3	0.08	0.020
F07S	Soil	1.06	8.50	23.84	30.4	155	8.9	3.8	172	2.34	7.1	0.6	2.9	4.6	8.6	0.14	0.62	0.23	52	0.07	0.022
F07Qv	Soil	0.78	13.53	24.04	31.4	186	12.6	4.7	158	1.98	11.1	1.4	5.3	13.0	6.2	0.06	0.61	0.22	39	0.05	0.011
FQv	Soil	0.54	10.07	18.77	25.2	86	8.4	3.3	114	1.34	7.7	0.8	6.6	7.4	10.0	0.06	0.42	0.15	27	0.09	0.018
F08	Soil	0.59	16.66	22.55	20.5	39	9.2	4.1	192	1.35	21.2	6.8	5.2	15.9	10.5	0.07	0.78	0.17	22	0.05	0.010
FES	Soil	0.96	12.81	21.45	37.7	273	13.3	6.1	262	2.20	8.2	0.8	11.3	7.7	6.2	0.09	0.62	0.19	46	0.06	0.015
FNR	Soil	0.78	36.35	15.24	53.8	185	23.8	9.8	366	3.01	12.3	1.8	7.4	9.4	19.6	0.03	0.84	0.25	62	0.14	0.011
8.1	Soil	0.67	7.70	18.24	27.1	161	7.4	3.3	125	1.60	4.9	0.8	4.4	7.4	10.4	0.02	0.34	0.16	30	0.07	0.011
8.2	Soil	1.18	17.10	30.61	58.8	222	20.1	7.9	326	2.74	6.8	0.7	2.6	5.2	12.9	0.10	0.64	0.25	60	0.10	0.022
8.3	Soil	1.09	15.04	24.42	34.5	84	14.4	6.0	214	2.56	10.0	0.9	5.1	10.1	11.5	0.06	0.63	0.24	51	0.10	0.024
8.4	Soil	0.34	5.95	18.75	17.8	146	4.4	2.1	85	1.08	3.9	0.6	<0.2	4.6	7.5	0.03	0.23	0.15	16	0.04	0.012
8.5	Soil	1.22	17.82	75.59	39.4	615	13.4	4.2	152	1.83	7.7	1.0	6.7	7.5	9.0	0.06	0.59	0.35	37	0.06	0.017
8.6	Soil	1.49	15.64	85.33	41.6	155	12.9	3.5	131	1.45	3.9	1.1	5.6	5.8	11.3	0.05	1.86	0.28	30	0.08	0.006
8.7	Soil	3.63	19.99	154.5	61.5	3457	14.3	5.5	165	2.43	9.2	1.2	6.7	7.1	9.3	0.12	6.97	0.38	51	0.06	0.022
8.8	Soil	0.51	38.12	134.9	120.0	424	6.4	0.8	49	0.87	3.4	2.2	2.6	30.6	2.7	0.24	4.34	0.25	5	0.01	0.007
8.10	Soil	0.67	69.39	460.1	131.8	856	7.0	2.8	92	1.61	5.4	1.1	1.6	5.9	5.7	0.07	1.38	0.12	33	0.04	0.021
8.11	Soil	2.52	54.13	475.5	51.0	4272	6.8	2.7	80	1.84	13.5	1.5	17.6	10.5	9.5	0.04	13.36	0.19	28	0.05	0.019
8.12	Soil	4.06	33.03	375.3	27.4	5489	4.0	1.6	64	1.36	22.2	1.8	16.5	10.7	7.2	0.02	26.55	0.17	14	0.03	0.016
OH 1	Soil	0.15	11.89	15.01	17.5	61	3.9	1.9	87	0.61	2.5	1.1	2.2	9.5	5.4	0.03	0.47	0.14	11	0.04	0.006
OH 2	Soil	0.41	16.39	14.71	43.8	46	9.5	4.0	104	1.06	5.3	0.7	5.9	6.7	15.3	0.05	0.51	0.13	19	0.16	0.024
OH 3	Soil	0.40	10.99	8.70	26.6	20	8.0	3.0	88	1.15	3.5	0.7	1.6	6.3	6.7	0.02	0.30	0.09	23	0.06	0.007
OH 4	Soil	0.18	6.41	8.22	29.6	35	4.8	1.9	96	0.62	1.5	0.9	2.8	5.1	10.2	0.03	0.17	0.06	10	0.10	0.013
Rag28	Soil	0.03	3.30	28.86	86.0	18	11.3	8.9	719	2.45	0.9	2.9	4.5	40.5	33.7	0.24	0.56	0.31	9	0.20	0.053

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Client: **Petroutsas, Erini**
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Project: Petra
Report Date: May 30, 2013

CERTIFICATE OF ANALYSIS WHI12000951.1

Method		1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
MDL		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
BL1	Soil	18.2	28.1	0.42	425.9	0.026	2	1.67	0.004	0.04	0.2	5.0	0.08	<0.02	11	0.5	<0.02	4.9
In167 B	Soil	26.4	16.4	0.52	464.2	0.035	2	1.06	0.002	0.08	<0.1	2.3	0.11	<0.02	12	0.4	<0.02	3.4
In167 C	Soil	20.9	25.3	0.52	218.8	0.043	2	1.77	0.003	0.07	0.2	3.4	0.13	<0.02	40	0.2	<0.02	4.3
In167 D	Soil	15.9	11.1	0.23	147.4	0.026	1	1.20	0.001	0.06	0.1	1.7	0.08	<0.02	10	0.2	<0.02	2.9
In167 E	Soil	13.6	29.5	0.47	207.7	0.041	2	1.85	0.003	0.05	0.2	2.7	0.11	<0.02	8	<0.1	0.05	5.5
In167 F	Soil	12.7	10.8	0.15	97.0	0.052	<1	0.78	0.002	0.04	0.1	1.2	0.07	<0.02	<5	<0.1	<0.02	7.2
In-Rd	Soil	7.7	16.8	0.58	72.4	0.002	<1	0.68	0.004	0.03	0.4	1.9	<0.02	0.07	<5	2.9	<0.02	1.9
CarmS2	Soil	33.2	2.6	0.06	119.0	0.001	2	0.32	0.003	0.05	<0.1	1.4	0.03	<0.02	<5	0.3	<0.02	1.4
F07S	Soil	14.4	18.1	0.25	224.1	0.028	<1	1.53	0.002	0.05	0.2	2.2	0.10	<0.02	12	0.1	<0.02	5.6
F07Qv	Soil	22.6	23.3	0.31	220.2	0.030	1	1.58	0.002	0.05	0.1	2.6	0.09	<0.02	<5	0.1	<0.02	4.5
FQv	Soil	24.3	14.2	0.24	216.8	0.025	2	0.96	0.004	0.06	0.1	2.0	0.05	<0.02	5	0.2	0.03	2.6
F08	Soil	59.1	12.3	0.18	638.3	0.014	<1	0.88	0.003	0.07	0.1	3.8	0.06	<0.02	33	0.5	<0.02	2.2
FES	Soil	14.8	25.5	0.34	213.7	0.039	<1	1.75	0.002	0.05	0.2	2.7	0.09	<0.02	12	0.2	0.03	4.6
FNR	Soil	34.9	35.4	0.47	945.3	0.064	1	1.87	0.014	0.05	0.2	6.5	0.07	<0.02	40	0.2	<0.02	5.5
8.1	Soil	14.3	13.8	0.29	281.2	0.019	<1	1.52	0.002	0.05	<0.1	2.1	0.10	<0.02	<5	0.2	<0.02	4.7
8.2	Soil	14.6	31.9	0.43	379.3	0.047	<1	2.28	0.003	0.07	0.1	3.3	0.14	<0.02	13	<0.1	0.07	7.1
8.3	Soil	14.2	29.1	0.36	207.0	0.039	1	1.98	0.003	0.05	0.1	3.0	0.11	<0.02	19	0.3	<0.02	5.7
8.4	Soil	10.2	7.5	0.16	140.1	0.012	<1	0.84	0.002	0.09	<0.1	1.1	0.06	<0.02	<5	<0.1	<0.02	2.3
8.5	Soil	14.1	20.2	0.33	188.8	0.027	<1	1.64	0.003	0.04	<0.1	2.7	0.11	<0.02	15	<0.1	0.04	5.0
8.6	Soil	15.2	16.4	0.55	116.9	0.039	<1	1.30	0.005	0.03	<0.1	2.5	0.02	<0.02	<5	0.4	<0.02	3.9
8.7	Soil	16.2	26.0	0.46	196.3	0.034	<1	2.19	0.002	0.05	<0.1	3.4	0.15	<0.02	56	0.1	0.04	6.9
8.8	Soil	87.4	3.6	0.25	95.6	0.002	<1	0.75	<0.001	0.04	0.7	1.9	0.13	<0.02	74	0.4	<0.02	1.7
8.10	Soil	28.6	15.3	0.24	246.4	0.010	<1	1.80	0.001	0.06	0.1	2.0	0.14	<0.02	20	<0.1	<0.02	5.6
8.11	Soil	35.5	15.0	0.28	158.5	0.015	<1	1.17	0.003	0.05	0.1	1.8	0.12	<0.02	411	0.3	<0.02	3.9
8.12	Soil	37.3	7.0	0.22	97.4	0.010	2	0.65	0.002	0.04	<0.1	0.9	0.06	<0.02	773	0.6	0.03	2.1
OH 1	Soil	21.5	6.1	0.12	101.2	0.012	1	0.43	0.001	0.07	<0.1	2.1	0.04	<0.02	13	0.1	<0.02	1.1
OH 2	Soil	20.2	14.5	0.32	270.4	0.028	<1	0.79	0.003	0.05	<0.1	2.3	0.04	<0.02	18	<0.1	<0.02	2.3
OH 3	Soil	17.7	13.2	0.24	146.1	0.025	2	0.94	0.002	0.05	<0.1	1.4	0.05	<0.02	<5	<0.1	0.03	2.5
OH 4	Soil	18.4	7.3	0.22	125.2	0.015	<1	0.49	0.003	0.08	<0.1	1.3	0.05	<0.02	<5	<0.1	<0.02	1.3
Rag28	Soil	89.1	6.3	1.76	809.5	0.001	<1	1.77	0.002	0.08	<0.1	2.6	0.04	<0.02	<5	0.3	0.05	5.4

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Project: Petra
Report Date: May 30, 2013

CERTIFICATE OF ANALYSIS WHI12000951.1

	Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	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	2	0.01	0.001
CRP 1	Soil	37.30	9.89	60.22	5.1	815	1.1	0.4	7	2.00	60.0	1.1	4.3	2.7	78.8	0.03	4.54	1.08	4	0.08	0.026
CRP 2	Soil	24.54	61.35	51.64	26.8	303	2.3	0.9	12	7.74	24.1	2.2	11.4	2.6	15.3	0.13	4.54	1.14	7	0.14	0.015
CRP 3	Soil	0.10	4.02	15.25	6.0	25	0.5	0.2	5	0.05	0.5	3.1	6.0	15.4	4.8	0.03	0.10	0.03	<2	0.04	0.014
CRP 4	Soil	1.01	26.79	32.87	150.9	67	5.1	3.2	64	1.30	15.0	8.7	2.0	21.3	12.2	0.24	0.68	0.32	3	0.10	0.020
CRP 5	Soil	0.10	7.27	8.93	4.4	15	0.5	0.3	4	0.05	1.4	2.6	1.0	17.6	5.6	0.03	0.07	0.27	<2	0.04	0.019
CRP 6	Soil	0.06	5.96	86.28	153.1	44	3.2	2.2	10	0.45	0.8	2.2	4.3	18.7	7.3	0.12	0.45	0.11	3	0.11	0.007
TRP/S 1	Soil	4.69	66.99	7.76	146.3	3636	43.9	5.1	61	1.72	19.2	3.4	3.3	1.8	24.4	0.39	1.03	0.06	53	0.18	0.047
TRP/S 2	Soil	2.86	81.72	4.61	373.1	83	85.6	13.8	96	6.81	17.4	1.4	0.8	2.5	64.9	1.37	0.09	0.03	69	0.34	0.275
TRP/S 3	Soil	0.84	89.65	26.46	289.2	254	88.8	10.3	122	2.61	67.8	0.4	1.5	0.2	10.1	0.60	1.09	0.85	67	0.25	0.030
TRP/S 4	Soil	20.61	144.9	32.60	131.2	1177	140.0	54.6	988	5.67	649.6	20.7	1.4	7.1	53.6	2.62	3.98	0.25	87	0.32	0.306
Crip30 1	Soil	0.21	14.96	13.09	74.3	22	20.8	12.4	441	2.00	2.9	1.5	<0.2	15.9	18.8	0.07	0.15	0.28	25	0.34	0.080
Crip30 2	Soil	0.79	38.15	7.90	97.0	41	48.5	25.3	385	5.67	19.1	0.8	<0.2	4.0	52.9	0.20	0.49	0.07	122	0.97	0.183
Crip30 3	Soil	0.44	32.15	7.45	39.6	24	25.8	21.7	151	1.75	4.4	2.0	<0.2	4.3	143.8	0.13	0.14	0.03	86	0.61	0.205
Crip30 4	Soil	0.33	33.87	5.63	75.6	23	47.3	38.9	682	4.71	7.5	1.5	<0.2	6.6	56.3	0.21	0.11	0.06	90	0.72	0.159
Crip30 5	Soil	0.81	40.33	3.94	104.7	34	70.4	95.0	2385	6.13	11.5	1.4	<0.2	5.5	50.5	0.54	0.07	0.02	123	0.70	0.149
Crip30 6	Soil	0.46	44.18	13.36	106.7	17	33.9	33.3	735	3.07	5.3	2.4	0.6	12.0	61.1	0.21	0.21	0.38	57	0.53	0.111
Crip30 7	Soil	1.42	27.48	18.28	40.3	21	20.8	15.1	463	2.86	16.4	7.0	<0.2	8.0	142.4	0.33	0.57	0.41	102	0.40	0.135
Crip30 8	Soil	0.59	34.46	7.70	116.7	44	47.6	37.4	743	6.39	11.3	0.9	1.1	4.8	48.0	0.26	0.26	0.05	111	0.81	0.196
Crip30 9	Soil	0.40	30.84	6.24	118.3	29	38.2	22.3	335	2.77	4.4	1.0	<0.2	6.5	54.4	0.09	0.13	0.04	77	0.53	0.128
Crip30 10	Soil	0.44	30.87	4.51	67.3	17	40.0	24.9	258	3.86	20.2	0.6	2.1	4.6	45.7	0.07	0.26	0.10	92	0.84	0.165

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Report Date: May 30, 2013

CERTIFICATE OF ANALYSIS WHI12000951.1

	Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
	MDL	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
CRP 1	Soil	12.9	5.5	0.03	180.8	<0.001	1	0.28	0.039	0.14	0.5	0.8	1.83	0.60	70	4.5	0.64	1.9
CRP 2	Soil	14.9	8.9	0.06	290.5	<0.001	1	0.26	0.002	0.02	0.5	0.8	0.19	0.03	70	1.4	0.26	4.0
CRP 3	Soil	31.6	0.7	0.03	98.1	<0.001	<1	0.17	0.001	0.17	<0.1	1.1	0.04	<0.02	6	<0.1	0.03	0.4
CRP 4	Soil	26.4	3.3	0.41	100.5	0.008	<1	0.87	<0.001	0.04	<0.1	3.4	0.06	<0.02	17	0.3	<0.02	3.0
CRP 5	Soil	47.0	1.1	0.02	127.6	<0.001	<1	0.17	0.001	0.19	<0.1	2.4	0.04	<0.02	<5	<0.1	<0.02	0.4
CRP 6	Soil	40.8	1.4	0.06	68.3	<0.001	<1	0.36	0.002	0.09	<0.1	3.5	0.06	<0.02	<5	<0.1	<0.02	1.4
TRP/S 1	Soil	7.0	577.8	0.75	543.1	0.007	<1	2.21	0.010	0.07	<0.1	16.4	0.47	0.12	12	1.0	<0.02	5.7
TRP/S 2	Soil	33.3	65.6	0.34	132.2	0.010	<1	1.59	0.119	0.06	<0.1	18.1	0.15	0.43	<5	1.3	<0.02	4.0
TRP/S 3	Soil	1.9	452.8	2.15	184.1	0.005	<1	2.48	0.013	0.08	<0.1	15.8	0.11	0.06	<5	1.5	0.11	4.2
TRP/S 4	Soil	19.8	224.8	1.31	162.2	0.003	<1	2.12	0.095	0.29	0.1	9.5	0.81	0.73	56	3.5	<0.02	5.9
Crip30 1	Soil	52.3	31.1	1.58	203.4	0.024	<1	2.33	0.005	0.05	<0.1	8.4	0.08	<0.02	8	0.3	0.06	6.7
Crip30 2	Soil	30.2	79.4	0.96	354.2	0.172	<1	2.02	0.067	0.12	0.1	14.0	0.13	<0.02	<5	0.9	0.02	7.4
Crip30 3	Soil	33.2	72.6	0.40	397.3	0.063	<1	2.02	0.020	0.13	<0.1	25.0	0.23	<0.02	<5	0.4	<0.02	7.8
Crip30 4	Soil	34.7	90.2	0.66	296.6	0.066	<1	2.26	0.033	0.14	<0.1	20.8	0.24	<0.02	<5	0.4	<0.02	7.2
Crip30 5	Soil	26.6	83.2	0.59	613.0	0.068	<1	2.10	0.034	0.20	<0.1	25.6	0.35	<0.02	<5	0.4	<0.02	7.0
Crip30 6	Soil	41.3	56.4	1.08	484.6	0.072	<1	2.33	0.022	0.08	<0.1	14.0	0.13	<0.02	<5	0.6	<0.02	8.6
Crip30 7	Soil	56.9	46.8	0.30	646.2	0.062	<1	1.88	0.011	0.08	<0.1	17.9	0.09	<0.02	<5	0.5	<0.02	7.5
Crip30 8	Soil	28.6	73.8	0.72	439.6	0.097	<1	2.11	0.036	0.10	<0.1	18.4	0.25	<0.02	8	0.6	<0.02	7.6
Crip30 9	Soil	35.0	69.9	0.45	310.0	0.079	<1	2.13	0.045	0.09	<0.1	16.9	0.33	<0.02	10	<0.1	<0.02	6.8
Crip30 10	Soil	32.3	69.7	0.68	252.4	0.112	1	1.92	0.077	0.06	<0.1	16.0	0.23	<0.02	<5	0.8	0.05	6.9

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Project: Petra
Report Date: May 30, 2013

QUALITY CONTROL REPORT WHI12000951.1

	Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	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	2	0.01	0.001
Pulp Duplicates																					
In-Rd	Soil	35.89	54.13	11.96	113.3	504	24.5	5.6	351	2.57	17.1	2.9	4.3	3.9	63.4	0.75	0.99	0.10	43	1.70	0.077
REP In-Rd	QC	34.97	52.11	11.10	114.9	463	23.7	5.4	356	2.56	16.4	2.8	2.9	4.1	62.1	0.74	1.07	0.08	44	1.67	0.078
Rag28	Soil	0.03	3.30	28.86	86.0	18	11.3	8.9	719	2.45	0.9	2.9	4.5	40.5	33.7	0.24	0.56	0.31	9	0.20	0.053
REP Rag28	QC	<0.01	3.08	27.91	100.4	18	10.8	9.2	792	2.61	0.7	3.0	3.8	39.4	35.3	0.16	0.66	0.31	10	0.20	0.057
Crip30 5	Soil	0.81	40.33	3.94	104.7	34	70.4	95.0	2385	6.13	11.5	1.4	<0.2	5.5	50.5	0.54	0.07	0.02	123	0.70	0.149
REP Crip30 5	QC	0.74	40.27	4.10	100.4	32	71.5	90.4	2280	5.89	12.1	1.4	<0.2	5.3	48.7	0.49	0.07	0.02	117	0.68	0.152
Crip30 8	Soil	0.59	34.46	7.70	116.7	44	47.6	37.4	743	6.39	11.3	0.9	1.1	4.8	48.0	0.26	0.26	0.05	111	0.81	0.196
REP Crip30 8	QC	0.60	34.17	6.97	111.8	43	47.2	35.9	761	6.25	10.8	0.9	2.4	4.5	50.2	0.31	0.25	0.05	110	0.79	0.184
Reference Materials																					
STD DS9	Standard	15.54	119.1	134.7	311.6	1862	44.5	8.1	635	2.43	25.8	2.9	137.0	7.2	72.4	2.36	5.11	6.67	41	0.78	0.088
STD DS9	Standard	13.26	110.5	132.8	301.9	1870	40.5	7.4	638	2.30	25.1	2.7	127.6	6.5	84.6	2.26	6.07	7.09	39	0.71	0.085
STD DS9 Expected		12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.01	0.04	0.02	0.1	<2	0.2	<0.1	2	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	0.10	0.4	8	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Petroutsas, Erini**
Box 431
Dawson City YT Y0B 1G0 CANADA

Project: Petra
Report Date: May 30, 2013

QUALITY CONTROL REPORT WHI12000951.1

	Method	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30	1F30
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm
	MDL	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
Pulp Duplicates																		
In-Rd	Soil	7.7	16.8	0.58	72.4	0.002	<1	0.68	0.004	0.03	0.4	1.9	<0.02	0.07	<5	2.9	<0.02	1.9
REP In-Rd	QC	9.1	18.6	0.59	70.4	0.002	<1	0.70	0.005	0.03	0.4	2.2	0.03	0.07	<5	2.2	0.03	1.8
Rag28	Soil	89.1	6.3	1.76	809.5	0.001	<1	1.77	0.002	0.08	<0.1	2.6	0.04	<0.02	<5	0.3	0.05	5.4
REP Rag28	QC	89.3	6.1	1.82	964.0	0.001	<1	1.91	0.002	0.10	<0.1	2.7	0.05	0.02	<5	0.9	<0.02	5.3
Crip30 5	Soil	26.6	83.2	0.59	613.0	0.068	<1	2.10	0.034	0.20	<0.1	25.6	0.35	<0.02	<5	0.4	<0.02	7.0
REP Crip30 5	QC	27.7	82.2	0.56	593.8	0.068	<1	1.92	0.031	0.19	<0.1	24.6	0.38	<0.02	<5	0.4	<0.02	6.4
Crip30 8	Soil	28.6	73.8	0.72	439.6	0.097	<1	2.11	0.036	0.10	<0.1	18.4	0.25	<0.02	8	0.6	<0.02	7.6
REP Crip30 8	QC	28.5	70.9	0.71	430.3	0.092	<1	2.06	0.035	0.10	<0.1	17.1	0.27	<0.02	<5	0.6	<0.02	7.4
Reference Materials																		
STD DS9	Standard	16.3	126.3	0.64	298.2	0.133	3	1.01	0.087	0.41	3.0	2.5	5.53	0.16	195	6.0	5.08	4.7
STD DS9	Standard	15.9	115.8	0.60	330.0	0.120	2	0.95	0.086	0.38	3.0	2.7	5.46	0.16	167	5.8	5.86	4.7
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59
BLK	Blank	<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
BLK	Blank	<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

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Client: **Petroutsas, Erini**
Box 431
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Submitted By:	Erini Petroutsas
Receiving Lab:	Canada-Whitehorse
Received:	October 01, 2012
Report Date:	May 30, 2013
Page:	1 of 2

CERTIFICATE OF ANALYSIS   WHI12000989.1

CLIENT JOB INFORMATION

Project:	Petra
Shipment ID:	
P.O. Number	
Number of Samples:	4

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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-1000	4	Crush, split and pulverize 1kg of sample to 200 mesh			VAN
5A	4	INAA analysis at Becquerel Laboratories		Completed	VAN
3B02	3	Fire assay fusion Au Pt Pd by ICP-ES	30	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Petroutsas, Erini
Box 431
Dawson City YT Y0B 1G0
CANADA

CC:

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Client: **Petroutsas, Erini**
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Dawson City YT Y0B 1G0 CANADA

Project: Petra
Report Date: May 30, 2013

CERTIFICATE OF ANALYSIS WHI12000989.1

	Method	WGHT	3B	3B	3B
	Analyte	Wgt	Au	Pt	Pd
	Unit	kg	ppb	ppb	ppb
	MDL	0.01	2	3	2
G1-WHI	Prep Blank	<0.01	<2	<3	<2
W7	Rock	0.38	610	18	<2
W7west	Rock	0.40	8	<3	<2
CripF.13	Rock	0.29	1228	6	<2
W5	Rock	5.96	N.A.	N.A.	N.A.

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Client: **Petroutsas, Erini**
Box 431
Dawson City YT Y0B 1G0 CANADA

Project: Petra
Report Date: May 30, 2013

QUALITY CONTROL REPORT WHI12000989.1

	Method	WGHT	3B	3B	3B
	Analyte	Wgt	Au	Pt	Pd
	Unit	kg	ppb	ppb	ppb
	MDL	0.01	2	3	2
Reference Materials					
STD CDN-PGMS-19	Standard		221	118	477
STD PD1	Standard		553	470	556
STD CDN-PGMS-19			230	108	476
STD PD1 Expected			542	456	563
BLK	Blank		<2	<3	<2
BLK	Blank		<2	<3	<2
Prep Wash					
G1-WHI	Prep Blank	<0.01	<2	<3	<2