YMIP GRASSROOTS GRANT 12-32

ROCK, SOIL & STREAM SEDIMENT GEOCHEMISTRY CARRIED OUT ON THE COLBY & TRACEY CLAIMS NTS SHEET 105H-9

By:

Timothy Liverton & Alex Black

2nd. December 2012

INTRODUCTION

The Tracey and Colby claims are held by Alex Black of Watson Lake. During the summer of 2012 he and assistant Jackie Jimmy collected stream sediment, soils and rock samples as suggested in the application for a YMIP grassroots grant. The claims are in the Little Hyland River valley and are immediately south of Northern Tiger's Sprogge property. Aben Resources Ltd. hold ground to the east where this summer they reported both skarn gold and sheeted-vein gold mineralization. The Northern Tiger property contains gold in quartz veins with a visible association of arsenopyrite.

The Tracey and Colby claims are underlain by Neoproterozoic Hyland Group (Yusezyu Formation) coarse clastic sediments, with phyllite outcropping in the south. Many cm to metre-scale quartz veins have been observed on the property by Alex Black, but without attitude data it cannot be deduced whether these have a preferred orientation and whether they form a sheeted vein system.

PROSPECTING

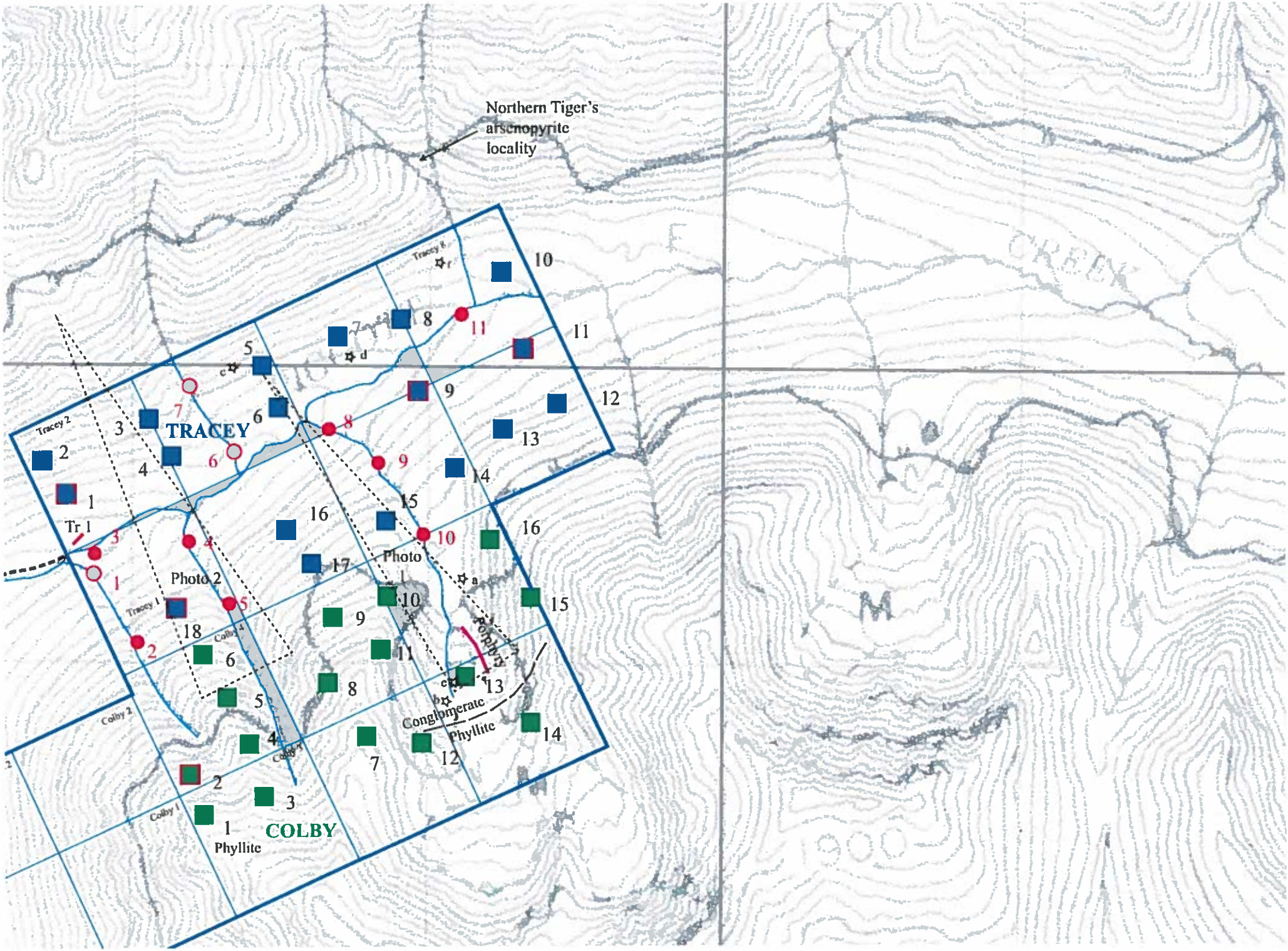
Prospector Alex Black and assistant Jackie Jimmy walked the claim block in the summer of 2012, collecting stream sediment, soil down spurs and rock specimens. Localities are shown in Fig. 1, geochemical results in Fig. 2 and two photographs of the terrain are included (location shown on Fig.1). In addition, one short trench was dug by excavator on the Tracey 2 claim. This was sited at a locality where much quartz veining is seen in the quartzite sub-outcrop. No mineralization was noted from the trench.

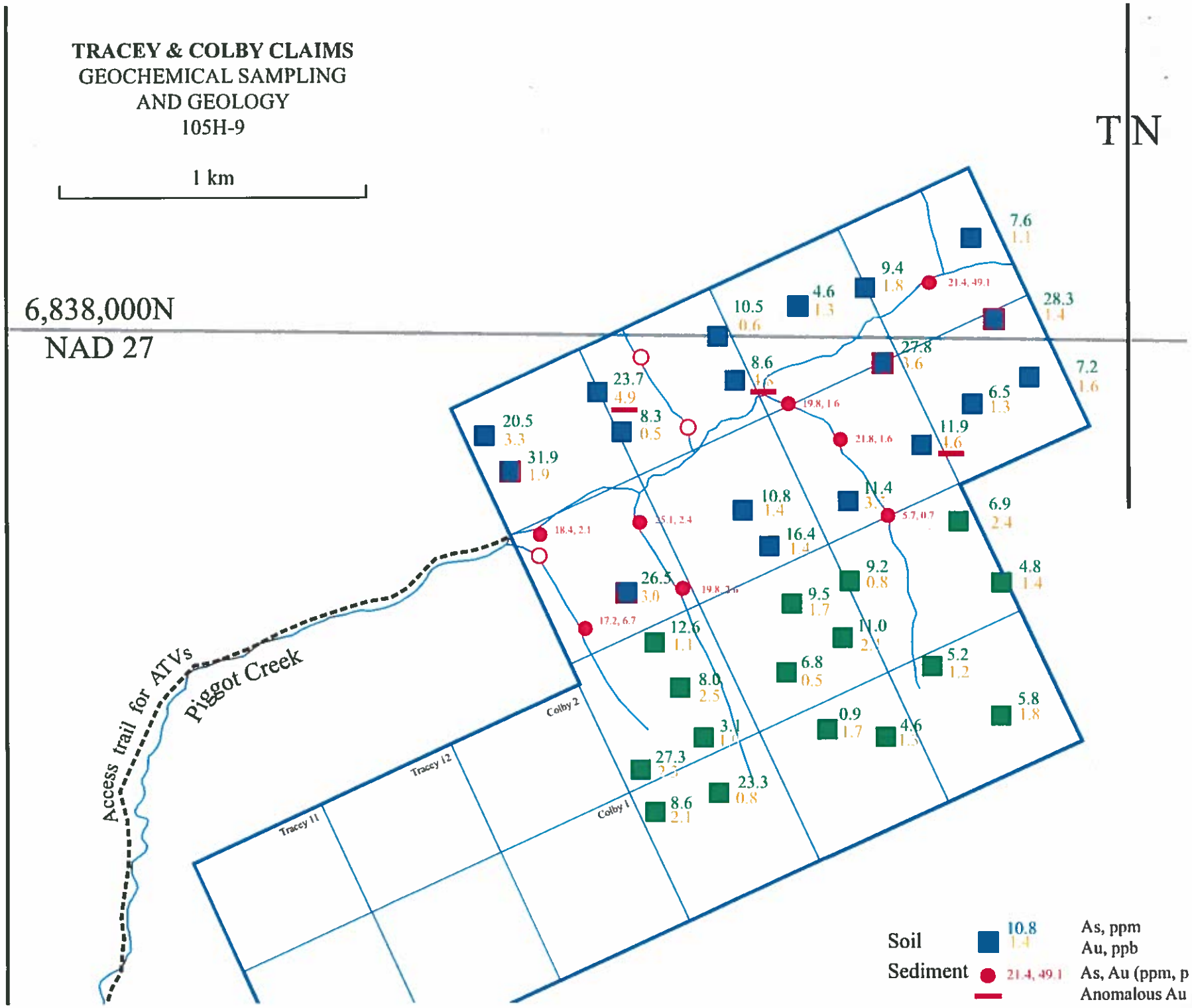
GEOCHEMICAL RESULTS

All samples were submitted to acme Labs for analysis by aqua regia digestion and ICPMS finish. Analytical results are appended.

Stream Sediment

The eleven stream sediment samples returned arsenic values of from 5.7 to 25.1 ppm and gold from 0.7 to 49.1ppb for the minus 80 mesh fraction. Three samples had insufficient fines for analysis. The highest gold value did not correlate with arsenic. Base metals show no particularly anomalous values. The northernmost sample taken from Piggot Creek on the Tracey 8 claim demonstrated obviously elevated gold content (49.1ppb). This anomaly may have been derived from the known arsenopyrite locality on the Northern Tiger property at the head of the northern tributary of the creek.


Northern Tiger's
arsenopyrite
locality
TRACEY
COLBY
Tracey 2
Tracey 1
Tracey 8
Colby 1
Colby 2
Colby 4
Tr 1
Photo 1
Photo 2
Porphyry
Conglomerate
Phyllite
Phyllite
CREEK
M


TRACEY & COLBY CLAIMS
GEOCHEMICAL SAMPLING
AND GEOLOGY
105H-9
1 km
TN
6,838,000N
NAD 27
Access trail for ATVs
Piggot Creek
Tracey 11
Tracey 12
Colby 1
Colby 2
7.6
1.1
9.4
1.8
21.4, 49.1
4.6
1.3
10.5
0.6
28.3
1.4
27.8
3.6
7.2
1.6
23.7
4.9
8.6
4.6
19.8, 1.6
6.5
1.3
20.5
3.3
8.3
0.5
21.8, 1.6
11.9
4.6
31.9
1.9
10.8
1.4
6.9
2.4
18.4, 2.1
25.1, 2.4
16.4
1.4
26.5
3.0
19.8, 3.6
9.2
0.8
4.8
1.4
17.2, 6.7
9.5
1.7
12.6
1.1
6.8
0.5
5.2
1.2
8.0
2.5
5.8
1.8
0.9
1.7
4.6
27.3
23.3
0.8
8.6
2.1
Soil
10.8
1.4
As, ppm
Au, ppb
Sediment
21.4, 49.1
As, Au (ppm, p
Anomalous Au


Phyllite
Dolerite
Conglomerate
Grit with
qtz veins
Post 1 Colby 3 & 4
Post 2 colby 1 & 2
PHOTO 1

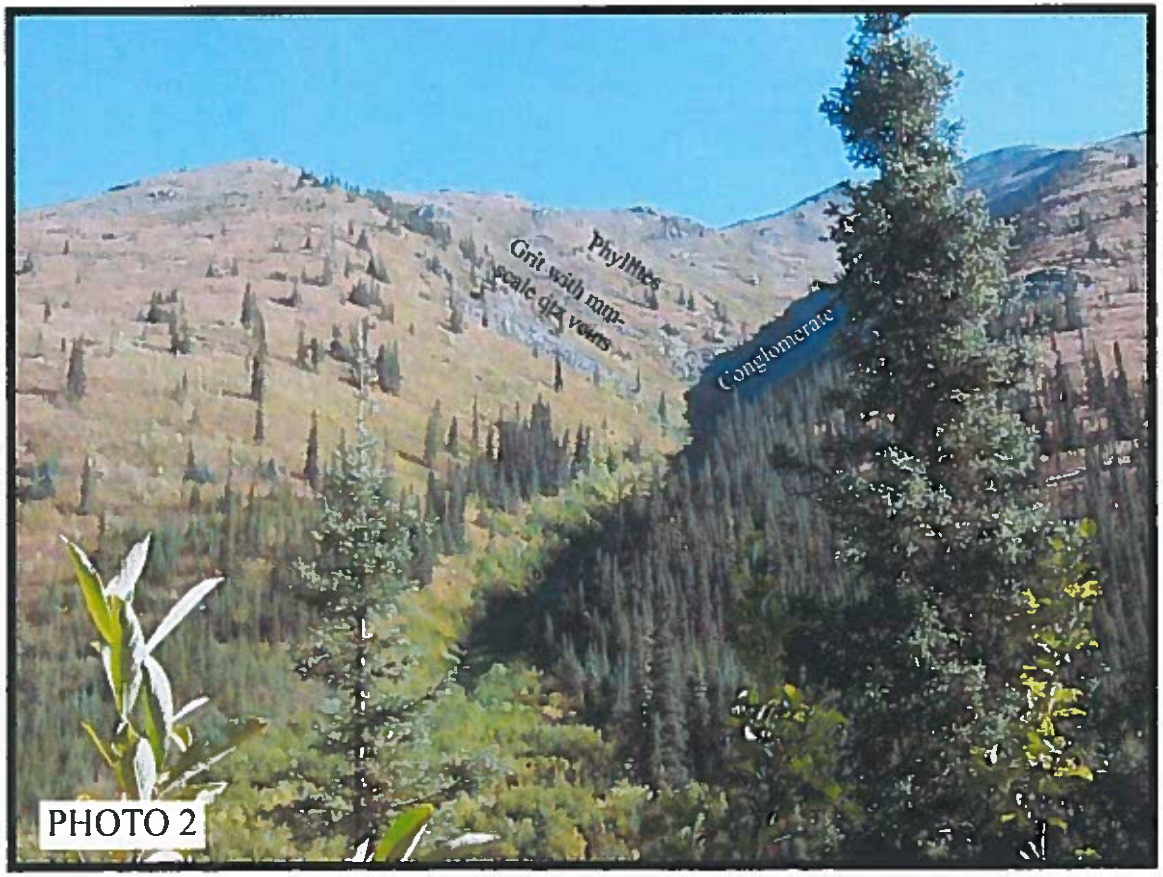


PHOTO 2

Soils

Soil analyses returned values between 0.9 and 31.9 ppm for As and from < 0.5 to 4.9 ppb for Au. If arithmetical mean plus two standard deviations are chosen as threshold for anomaly, then only one of the arsenic values reaches the 29.3 ppm level (Tracey 1 specimen on Tracey 2 claim at 31.9 ppm), but gold exceeds the 4.4 ppb level in three specimens: 4.9 ppb for sample T3 (Tracey 2 claim); 4.8 ppb for T6 (Tracey 4 claim) and 4.6 ppb for sample T14 (Tracey 5 claim). Whether these three first-order anomalies represent any continuous mineralization cannot be judged without further geological information. The SE corner of the property (Colby 5, 6, 7, & 8 claims) returned lowest values of As in soils, likely reflecting the outcrop of phyllite above.

Rock

The rock analyses (which correspond to soil sample sites) did not return any strikingly anomalous values. The highest values of Cu, Pb, Zn and As were obtained from sample Tracey 4 (129.1, 22.2, 85, 25 ppm respectively). Gold at 3.6 ppb in this specimen was not the highest, that being 5.2 ppb from Colby 1. Neither of these gold values are obviously anomalous for rock.

DISCUSSION AND RECOMMENDATIONS FOR FUTURE WORK

a) The most prospective rocks in this district are likely to be the quartzite, grit and conglomerate since these rheologically competent rocks are expected to host sheeted vein systems. Any further exploration should start with mapping the contact of the grit/conglomerate with the phyllite to the south. Quartz veins should be documented (number, width and orientation).

b) It is uncertain whether As is entirely suitable as a pathfinder element in soils in this region. Any detrital arsenopyrite or scorodite within the soil would be detected, but whether the element is capable of being transported any distance and adsorbed onto clays is not certain. Gold will produce a dispersion trail downslope and with modern ICPMS analysis is well within detection range. Follow-up around the three soil gold anomalies is possible using close-spaced soil sampling, especially if care is taken to sample the bottom of the B-horizon or C-horizon material. Soil grid sampling could be oriented normal to strike directions of quartz veins, provided mapping shows these to have any consistency, or if GPS positioning is used sampling along contours may be adequate. Prospecting around the Tracey 1 locality is also warranted.

c) The geochemical results are not exactly exciting at first glance, but identification of three localities with weak Au anomalies deserve follow-up, considering the wide sample spacing (150+ metres down spurs). With that spacing, there is room for a significant vein system to crop out.

Timothy Liverton

Timothy Liverton Ph.D, C.Geol, F.G.S.

DESCRIPTION OF ROCK SAMPLES

Trench 1

Phyllite host rock, quartz with limonite staining. No arsenopyrite.

Sample a

Feldspathic sandstone: feldspars to 3mm long (≈ 10%), quartz < 0.5mm.

Sample b

Quartz pebble conglomerate. Rounded qtz clasts to 20mm long. Quartz matrix < 1mm grainsize. One 2mm thick quartz vein ⊥ bedding.

Sample c

Grit: quartz grains to 0.5mm. With 5cm quartz vein.

Sample d

Grit, as above with 9mm thick quartz vein.

Sample e

Arkose (?). Has ≈ 15% (?) kaolinized feldspars to 5mm long in a < 0.5mm quartz matrix.

Sample f

Grit, quartz grains < 0.7mm. Shows seven 0.5-4mm thick parallel quartz veins over 14cm.

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Client: **Alex Black**
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Submitted By:	Alex Black
Receiving Lab:	Canada-Whitehorse
Received:	September 19, 2012
Report Date:	October 05, 2012
Page:	1 of 2

CERTIFICATE OF ANALYSIS WHI12000886.1

CLIENT JOB INFORMATION

Project:	None Given
Shipment ID:	
P.O. Number	
Number of Samples:	5

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	5	Crush, split and pulverize 250 g rock to 200 mesh			WHI
1DX2	5	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

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.

ADDITIONAL COMMENTS

Invoice To: Alex Black
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Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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

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Project: None Given
Report Date: October 05, 2012

CERTIFICATE OF ANALYSIS WHI12000886.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
JULY15QUARTZ-COLBY1	Rock	0.39	0.3	1.7	16.4	18	0.1	2.5	0.9	366	0.84	1.2	<0.5	0.7	1018	<0.1	0.2	<0.1	<2	7.53	0.006
HARDROCK-COLBY1	Rock	0.41	0.2	2.5	10.9	8	<0.1	4.0	3.8	340	0.63	1.8	5.2	6.4	<1	<0.1	<0.1	<0.1	<2	0.08	0.029
ROCK-TRACEY1	Rock	0.78	<0.1	1.0	5.1	35	<0.1	7.8	1.9	292	1.43	<0.5	3.1	0.6	285	<0.1	<0.1	<0.1	4	3.17	0.019
ROCK-TRACEY4	Rock	0.56	2.9	129.1	22.2	85	0.5	38.4	4.9	76	2.17	25.0	3.6	0.1	3	0.7	1.0	0.2	47	0.04	0.010
TRACEY8-ROCK	Rock	0.71	<0.1	16.0	9.8	52	<0.1	10.6	4.3	198	2.03	0.6	0.8	1.4	70	<0.1	<0.1	<0.1	5	1.24	0.016

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Project: None Given
Report Date: October 05, 2012

CERTIFICATE OF ANALYSIS WHI12000886.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
JULY15QUARTZ-COLBY1	Rock	3	4	0.06	7	<0.001	<1	0.05	0.008	0.01	<0.1	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
HARDROCK-COLBY1	Rock	15	3	0.02	27	<0.001	1	0.15	0.014	0.05	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
ROCK-TRACEY1	Rock	1	3	0.30	5	<0.001	<1	0.63	0.002	0.01	<0.1	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
ROCK-TRACEY4	Rock	<1	7	0.31	19	0.002	<1	0.29	0.010	<0.01	<0.1	<0.01	1.4	<0.1	<0.05	3	2.2	<0.2
TRACEY8-ROCK	Rock	3	6	0.43	10	<0.001	<1	0.73	0.005	0.03	<0.1	0.01	0.8	<0.1	<0.05	2	<0.5	<0.2

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Project: None Given
Report Date: October 05, 2012

QUALITY CONTROL REPORT WHI12000886.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
TRACEY8-ROCK	Rock	0.71	<0.1	16.0	9.8	52	<0.1	10.6	4.3	198	2.03	0.6	0.8	1.4	70	<0.1	<0.1	<0.1	5	1.24	0.016
REP TRACEY8-ROCK	QC		0.1	16.3	9.4	53	<0.1	10.8	4.3	201	2.03	0.7	<0.5	1.4	68	<0.1	<0.1	<0.1	6	1.24	0.016
Reference Materials																					
STD DS9	Standard		13.8	106.9	125.2	317	1.8	40.5	7.5	602	2.32	25.4	121.6	6.4	67	2.2	5.4	6.2	41	0.75	0.078
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1-WHI	Prep Blank		<0.1	1.5	2.7	47	<0.1	3.7	4.5	603	2.02	<0.5	<0.5	4.7	57	<0.1	<0.1	<0.1	41	0.45	0.071

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Project: None Given
Report Date: October 05, 2012

QUALITY CONTROL REPORT WHI12000886.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
TRACEY8-ROCK	Rock	3	6	0.43	10	<0.001	<1	0.73	0.005	0.03	<0.1	0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
REP TRACEY8-ROCK	QC	3	6	0.42	9	<0.001	<1	0.74	0.005	0.04	<0.1	<0.01	0.9	<0.1	<0.05	2	<0.5	<0.2
Reference Materials																		
STD DS9	Standard	13	126	0.64	299	0.114	3	0.98	0.085	0.40	3.1	0.22	2.5	5.6	0.16	5	5.0	5.0
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1-WHI	Prep Blank	8	8	0.60	223	0.111	<1	0.90	0.059	0.46	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2

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Submitted By: Alex Black
Receiving Lab: Canada-Whitehorse
Received: September 19, 2012
Report Date: October 12, 2012
Page: 1 of 3

CERTIFICATE OF ANALYSIS WHI12000888.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 46

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

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	46	Dry at 60C			WHI
SS80	46	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	42	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Alex Black
Box 823-104, Finlayson Ave.
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CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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

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Project: None Given
Report Date: October 12, 2012

CERTIFICATE OF ANALYSIS WHI12000888.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
COLBY1	Soil	0.8	38.6	75.1	142	0.6	49.2	31.4	2979	6.67	8.6	2.1	14.5	35	0.4	0.2	0.7	29	0.17	0.080	51
COLBY2	Soil	0.2	19.6	30.2	71	<0.1	23.4	10.6	369	2.88	27.3	2.3	8.3	33	0.1	0.7	0.3	9	0.31	0.046	22
COLBY3	Soil	0.1	17.4	27.1	71	<0.1	22.2	10.5	418	2.90	23.3	0.8	9.3	12	0.1	0.7	0.3	7	0.10	0.038	24
COLBY4	Soil	0.5	13.2	11.2	33	<0.1	9.1	3.1	66	1.24	3.1	1.9	3.3	4	<0.1	0.1	0.2	11	0.03	0.019	18
COLBY5	Soil	0.6	17.1	23.8	51	<0.1	13.7	8.0	480	4.27	8.0	2.5	6.6	5	<0.1	0.4	0.4	24	0.02	0.071	18
COLBY6	Soil	0.7	23.7	28.6	111	<0.1	21.9	12.9	572	6.27	12.6	1.1	8.8	6	<0.1	0.4	0.5	26	0.02	0.117	24
COLBY7	Soil	0.2	10.8	2.9	9	<0.1	3.9	1.7	469	0.30	0.9	1.7	0.1	114	<0.1	<0.1	0.1	5	1.23	0.047	2
COLBY8	Soil	0.7	12.3	17.5	66	<0.1	15.9	8.4	242	2.56	6.8	<0.5	6.7	37	<0.1	0.3	0.3	16	0.32	0.027	26
COLBY9	Soil	0.6	17.9	27.3	71	0.2	19.5	9.9	316	5.47	9.5	1.7	9.3	5	<0.1	0.4	0.5	23	0.02	0.041	21
COLBY10	Soil	0.6	18.7	20.2	90	<0.1	22.3	10.3	382	8.09	9.2	0.8	9.5	6	<0.1	0.4	0.6	25	0.01	0.119	23
COLBY11	Soil	0.6	19.9	35.5	87	<0.1	23.2	12.3	328	5.54	11.0	2.1	10.6	12	0.1	0.4	0.5	21	0.05	0.058	26
COLBY12	Soil	0.5	32.2	47.0	91	0.2	27.6	17.9	688	3.53	4.6	1.3	6.2	57	0.1	0.2	0.5	13	0.43	0.083	18
COLBY13	Soil	0.6	30.8	46.6	88	0.2	28.0	17.1	727	3.60	5.2	1.2	6.5	42	<0.1	0.2	0.6	14	0.31	0.073	22
COLBY14	Soil	0.5	38.0	39.9	97	0.2	33.4	16.8	675	3.79	5.8	1.8	8.7	41	<0.1	0.3	0.5	12	0.32	0.057	22
COLBY15	Soil	0.6	11.3	12.6	43	<0.1	11.2	5.5	165	3.76	4.8	1.4	10.5	4	<0.1	0.3	0.4	20	<0.01	0.044	32
COLBY16	Soil	0.7	14.7	21.5	48	<0.1	10.9	5.8	208	3.35	6.9	2.4	7.8	20	<0.1	0.4	0.4	23	0.13	0.046	25
TRACY9-E	Soil	0.3	28.1	44.3	106	0.2	29.8	12.7	361	3.02	27.8	3.6	9.6	53	0.4	0.9	0.4	9	0.47	0.057	20
TRACY11-E	Soil	0.2	17.4	30.9	83	<0.1	23.8	11.1	332	2.93	28.3	1.4	10.1	27	0.2	0.8	0.3	8	0.19	0.043	25
TRACY12-E	Soil	0.5	24.7	32.8	86	<0.1	25.3	13.7	463	3.30	7.2	1.6	8.6	21	<0.1	0.3	0.4	10	0.22	0.048	24
TRACY13-E	Soil	0.6	22.7	22.5	66	<0.1	18.9	9.0	194	2.71	6.5	1.3	4.3	8	<0.1	0.3	0.3	11	0.04	0.034	22
TRACY14-E	Soil	0.4	16.2	24.3	59	<0.1	23.0	9.2	386	2.88	11.9	4.6	9.5	11	<0.1	0.4	0.3	12	0.09	0.032	32
TRACY15-E	Soil	0.3	15.6	17.0	55	<0.1	19.4	6.7	223	2.51	11.4	3.5	6.8	20	<0.1	0.3	0.3	14	0.19	0.031	23
TRACY16-E	Soil	0.4	18.7	21.4	73	<0.1	23.5	9.9	332	3.25	10.8	1.4	9.9	12	<0.1	0.4	0.3	15	0.10	0.026	31
TRACY17-E	Soil	0.1	9.7	23.5	66	<0.1	19.6	6.0	120	2.34	16.4	1.4	10.8	26	0.1	0.5	0.2	7	0.24	0.030	39
TRACY18-E	Soil	0.2	22.1	22.5	53	<0.1	21.6	7.4	163	2.63	26.5	3.0	9.1	4	<0.1	0.5	0.3	11	0.02	0.016	20
TRACY1-WEST	Soil	0.2	21.6	35.6	76	<0.1	26.5	11.7	405	3.03	31.9	1.9	11.9	23	0.2	0.9	0.3	8	0.19	0.037	31
TRACY2-W	Soil	0.3	26.9	21.6	50	0.1	22.3	7.8	209	2.50	20.5	3.3	3.8	196	<0.1	0.4	0.4	13	1.83	0.059	13
TRACY3-W	Soil	0.3	22.9	24.6	64	<0.1	28.3	11.5	334	3.05	23.7	4.9	10.8	64	<0.1	0.5	0.3	13	1.04	0.038	25
TRACY4-W	Soil	0.3	7.8	11.6	31	<0.1	10.5	4.9	327	1.79	8.3	<0.5	4.0	29	<0.1	0.3	0.2	14	0.35	0.021	14
TRACY5-W	Soil	0.3	10.5	13.6	43	<0.1	12.9	6.1	144	2.00	10.5	0.6	6.2	26	<0.1	0.2	0.2	14	0.27	0.016	20

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Project: None Given
Report Date: October 12, 2012

CERTIFICATE OF ANALYSIS WHI12000888.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
COLBY1	Soil	23	0.37	133	0.014	2	2.63	0.004	0.04	0.2	0.11	10.8	0.1	<0.05	8	<0.5	<0.2
COLBY2	Soil	14	0.38	29	0.002	<1	0.95	0.003	0.03	<0.1	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
COLBY3	Soil	14	0.39	14	0.001	<1	0.89	0.001	0.03	<0.1	<0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
COLBY4	Soil	9	0.09	27	0.005	<1	0.51	0.014	0.04	<0.1	<0.01	0.6	<0.1	<0.05	3	<0.5	<0.2
COLBY5	Soil	20	0.28	32	0.016	<1	1.68	0.003	0.04	0.2	0.04	1.3	<0.1	<0.05	6	<0.5	<0.2
COLBY6	Soil	24	0.48	45	0.007	<1	1.86	0.003	0.06	0.1	<0.01	1.7	<0.1	<0.05	8	<0.5	<0.2
COLBY7	Soil	3	0.07	33	0.012	<1	0.38	0.028	0.02	<0.1	0.02	0.2	<0.1	0.09	<1	<0.5	<0.2
COLBY8	Soil	17	0.27	51	0.006	<1	1.02	0.003	0.06	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
COLBY9	Soil	27	0.45	39	0.008	<1	2.00	0.003	0.05	0.2	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
COLBY10	Soil	30	0.48	41	0.004	<1	2.05	0.002	0.04	0.1	0.02	1.5	<0.1	<0.05	9	<0.5	<0.2
COLBY11	Soil	24	0.40	47	0.006	<1	1.92	0.002	0.05	0.1	0.01	1.6	<0.1	<0.05	7	<0.5	<0.2
COLBY12	Soil	18	0.55	64	0.003	2	1.57	0.005	0.07	<0.1	0.05	2.4	<0.1	<0.05	4	<0.5	<0.2
COLBY13	Soil	22	0.54	61	0.003	1	1.59	0.005	0.08	<0.1	0.04	2.4	0.2	<0.05	5	<0.5	<0.2
COLBY14	Soil	23	0.63	50	0.003	<1	1.61	0.005	0.07	<0.1	0.04	2.7	<0.1	<0.05	5	<0.5	<0.2
COLBY15	Soil	16	0.20	31	0.006	<1	1.08	0.003	0.04	<0.1	0.03	1.0	<0.1	<0.05	7	<0.5	<0.2
COLBY16	Soil	16	0.22	45	0.005	<1	1.18	0.006	0.05	0.1	0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
TRACY9-E	Soil	17	0.44	38	0.002	1	1.09	0.004	0.06	0.1	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
TRACY11-E	Soil	14	0.45	20	0.002	<1	0.97	0.002	0.04	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
TRACY12-E	Soil	18	0.46	33	0.002	2	1.16	0.005	0.06	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
TRACY13-E	Soil	14	0.24	28	0.002	<1	0.78	0.007	0.04	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
TRACY14-E	Soil	20	0.48	38	0.004	<1	1.27	0.003	0.06	0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
TRACY15-E	Soil	16	0.39	53	0.005	<1	1.16	0.010	0.06	0.2	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
TRACY16-E	Soil	20	0.48	44	0.004	<1	1.41	0.003	0.07	0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
TRACY17-E	Soil	13	0.39	17	0.001	<1	0.86	0.002	0.03	<0.1	0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
TRACY18-E	Soil	16	0.39	37	0.003	<1	1.19	0.002	0.06	0.3	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
TRACY1-WEST	Soil	14	0.40	23	0.002	<1	0.92	0.002	0.03	<0.1	0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
TRACY2-W	Soil	19	0.51	46	0.009	3	1.17	0.008	0.07	0.4	0.04	2.0	<0.1	0.10	4	1.0	<0.2
TRACY3-W	Soil	21	0.50	50	0.003	1	1.39	0.004	0.08	0.2	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
TRACY4-W	Soil	10	0.18	59	0.004	<1	0.89	0.011	0.08	0.2	0.02	0.8	<0.1	<0.05	4	<0.5	<0.2
TRACY5-W	Soil	12	0.23	45	0.005	<1	0.95	0.008	0.06	0.1	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2

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Project: None Given
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CERTIFICATE OF ANALYSIS WHI12000888.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
TRACY6-W	Soil		0.2	7.2	18.4	47	<0.1	12.0	6.1	280	2.16	8.6	4.8	5.3	17	<0.1	0.2	0.2	15	0.18	0.027	20
TRACY7-W	Soil		0.2	24.1	13.0	26	0.4	12.6	6.7	561	1.33	4.6	1.3	1.5	138	0.1	0.2	0.2	8	2.07	0.068	9
TRACY8-W	Soil		0.4	14.0	16.3	54	<0.1	18.6	8.5	373	2.48	9.4	1.8	4.0	39	0.1	0.3	0.2	14	0.48	0.028	19
TRACY10-W	Soil		0.3	20.0	27.8	63	<0.1	17.3	12.6	616	1.90	7.6	1.1	2.1	222	0.3	0.3	0.2	8	2.16	0.053	9
TRACYSTREAMSILT#1	Silt		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
TRACYSTREAMSILT#2A	Silt		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
TRACYSTREAMSILT#2B	Silt		0.6	16.0	22.8	64	<0.1	25.4	11.1	422	2.87	17.2	6.7	6.5	21	0.1	0.6	0.3	9	0.29	0.029	19
TRACYSTREAMSILT#3	Silt		1.3	20.2	30.5	94	0.1	32.9	13.5	502	3.53	18.4	2.1	7.1	52	0.2	0.6	0.3	16	0.61	0.044	19
TRACYSTREAMSILT#4	Silt		1.1	25.2	28.8	75	0.1	31.5	15.2	485	3.28	25.1	2.4	7.7	61	0.1	0.5	0.4	18	1.46	0.039	16
TRACYSTREAMSILT#5	Silt		0.7	19.1	29.7	72	0.1	30.4	13.9	547	3.36	19.8	2.6	7.5	20	0.2	0.7	0.3	14	0.23	0.036	22
TRACYSTREAMSILT#6	Silt		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
TRACYSTREAMSILT#7	Silt		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
TRACYSTREAMSILT#8	Silt		0.9	15.3	31.9	95	<0.1	25.1	16.9	659	3.16	19.8	1.6	6.3	18	0.2	0.5	0.3	13	0.18	0.031	19
TRACYSTREAMSILT#9	Silt		0.5	18.0	21.4	72	<0.1	26.1	12.9	395	3.31	21.8	1.6	7.7	19	<0.1	0.4	1.0	17	0.28	0.033	21
STREAMTRACY#10	Silt		0.8	10.4	20.6	47	<0.1	12.0	6.7	250	4.18	5.7	0.7	5.7	3	<0.1	0.3	0.4	24	0.02	0.041	18
STREAMTRACY#11	Silt		0.5	17.9	21.0	68	<0.1	25.9	12.7	394	3.23	21.4	49.1	7.6	19	<0.1	0.5	0.9	17	0.28	0.032	19

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Project: None Given
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CERTIFICATE OF ANALYSIS WHI12000888.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
TRACY6-W	Soil		13	0.32	52	0.006	<1	1.14	0.007	0.05	0.3	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
TRACY7-W	Soil		9	0.16	87	0.005	2	0.86	0.010	0.05	<0.1	0.10	1.5	<0.1	0.09	2	<0.5	<0.2
TRACY8-W	Soil		16	0.33	49	0.008	<1	1.05	0.008	0.05	0.2	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
TRACY10-W	Soil		11	0.26	67	0.003	3	1.00	0.005	0.06	<0.1	0.04	1.2	<0.1	0.10	3	<0.5	<0.2
TRACYSTREAMSILT#1	Silt		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
TRACYSTREAMSILT#2A	Silt		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
TRACYSTREAMSILT#2B	Silt		17	0.39	19	0.001	<1	0.92	0.001	0.04	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
TRACYSTREAMSILT#3	Silt		27	0.43	31	0.002	2	1.16	0.003	0.07	<0.1	0.04	2.6	<0.1	<0.05	3	0.6	<0.2
TRACYSTREAMSILT#4	Silt		25	0.52	41	0.007	1	1.22	0.009	0.07	0.2	0.03	2.8	<0.1	<0.05	3	<0.5	<0.2
TRACYSTREAMSILT#5	Silt		22	0.37	27	0.002	<1	1.08	0.004	0.07	<0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
TRACYSTREAMSILT#6	Silt		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
TRACYSTREAMSILT#7	Silt		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
TRACYSTREAMSILT#8	Silt		24	0.29	27	0.001	<1	1.08	0.005	0.05	<0.1	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
TRACYSTREAMSILT#9	Silt		19	0.48	29	0.012	<1	1.04	0.007	0.05	0.9	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
STREAMTRACY#10	Silt		17	0.19	27	0.005	<1	1.22	0.003	0.03	0.1	0.02	1.0	<0.1	<0.05	7	<0.5	<0.2
STREAMTRACY#11	Silt		18	0.47	29	0.011	2	1.03	0.007	0.05	0.9	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2

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QUALITY CONTROL REPORT WHI12000888.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																						
COLBY1	Soil		0.8	38.6	75.1	142	0.6	49.2	31.4	2979	6.67	8.6	2.1	14.5	35	0.4	0.2	0.7	29	0.17	0.080	51
REP COLBY1	QC		0.6	37.8	72.1	135	0.5	49.9	31.2	2965	6.48	8.6	4.4	14.6	32	0.3	0.3	0.6	28	0.17	0.079	48
TRACY13-E	Soil		0.6	22.7	22.5	66	<0.1	18.9	9.0	194	2.71	6.5	1.3	4.3	8	<0.1	0.3	0.3	11	0.04	0.034	22
REP TRACY13-E	QC		0.6	21.5	21.0	60	<0.1	18.1	8.2	188	2.55	6.0	<0.5	4.1	8	<0.1	0.3	0.3	10	0.04	0.033	21
Reference Materials																						
STD DS9	Standard		12.7	91.4	121.2	286	1.9	37.6	7.4	559	2.27	20.3	113.9	4.9	56	1.9	4.4	5.1	41	0.68	0.067	10
STD DS9	Standard		13.4	111.9	127.2	309	1.8	42.1	7.5	596	2.40	26.2	113.2	7.1	77	2.6	5.8	6.9	42	0.74	0.086	15
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001	<1
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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Project: None Given
Report Date: October 12, 2012

QUALITY CONTROL REPORT WHI12000888.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
COLBY1	Soil	23	0.37	133	0.014	2	2.63	0.004	0.04	0.2	0.11	10.8	0.1	<0.05	8	<0.5	<0.2
REP COLBY1	QC	23	0.38	130	0.007	1	2.65	0.004	0.04	0.2	0.08	10.8	0.1	<0.05	7	<0.5	<0.2
TRACY13-E	Soil	14	0.24	28	0.002	<1	0.78	0.007	0.04	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
REP TRACY13-E	QC	13	0.23	27	0.002	<1	0.73	0.007	0.04	<0.1	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	119	0.62	284	0.085	3	0.90	0.089	0.37	2.9	0.21	2.5	5.4	0.14	4	4.4	5.3
STD DS9	Standard	122	0.64	315	0.122	3	1.01	0.089	0.40	3.1	0.20	2.7	5.8	0.15	5	5.3	5.3
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2