

YEIP  
2007  
-017

YMIP 07-017

Trenching and Sampling Report  
On The  
Brimstone Project  
Sul 1-10  
Quartz Claims  
Work Period May 20<sup>th</sup> to Aug 30<sup>th</sup>, 2007

Located In  
Dawson Mining District  
On  
NTS 115-O-10  
63° 44' Latitude, 138° 50' Longitude

By  
Bernie Kreft

January 31, 2008

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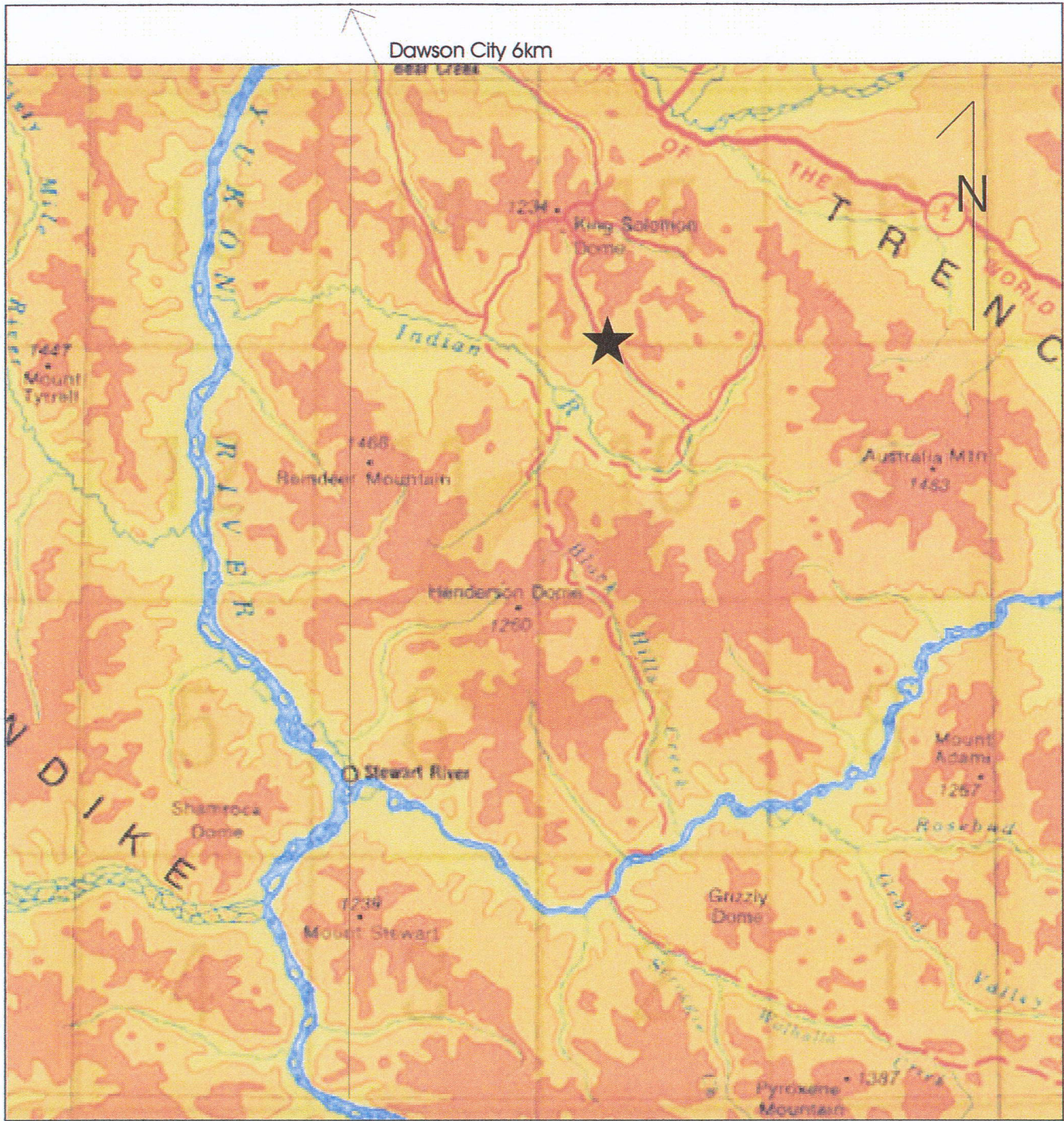
**Location And Access** – The Brimstone Project is located in the Dawson Mining District on NTS mapsheet 115-O-10 at approximately 63° 44' north and 138° 52' east. The area evaluated occurs at the bottom of the Sulphur Creek drainage basin in the vicinity of left limit tributary Brimstone Gulch. Access was achieved by truck from Dawson via the Bonanza Creek road and the Sulphur Creek road, a one way distance of about 53 kilometres with a travel time of about 45 minutes.

**Topography And Vegetation** – The property lies within the un-glaciated Klondike Plateau, which is characterized by low rolling hills dissected by deeply incised stream valleys. This region experienced strong surficial weathering during the early and mid-Tertiary, as a result, bedrock exposure is extremely limited with the effects of weathering extending to depths of as much as 80 metres or more. Although snow cover is mostly gone by early May, frost and glacier build-up does not leave the ground sufficiently to allow for unhindered exploration until early June.

Blanketing the valley bottom is a myriad of settling ponds, tailings piles and other assorted workings associated with placer mining efforts which have taken place on Sulphur since 1896. This mixed sequence is commonly from 3 to 10 metres in thickness and contains discontinuous layers of gravel, muck and broken bedrock with some permafrost. Rock exposed on surface consists of broken bedrock material and gravel that is generally within 50 metres of source, although in some situations it may have been moved as much as 200 metres or more. A general rule of thumb is that older tailings (pre 1980's) are closer to source, with tailings movement generally in a downstream direction. In amongst the piles and ponds are rare bedrock exposures. Given that topography changes rapidly, the best way to view bedrock is by frequently visiting placer miners and asking to see areas of bedrock that they have recently exposed.

**History And Previous Work** – Exploration for the source of the placer gold in the Klondike has been of an ebb and flow nature since 1898. Although numerous significant discoveries such as Lone Star and Hunker Dome have been made, the source of the majority of the placer gold remains an enigma. This is due to thick overburden, abundant vegetative cover and a variable thickness of regolithic material rendering historical methods of prospecting of limited use and effect. Exploration in the beds of placer mined streams is even more difficult due to the presence of thick layers of disturbed gravel and muck rendering silt and soil sampling void, groundwater flow issues, as well as a constantly changing surficial environment as placer mining weaves up and down the valleys. This has led to a situation where almost all of the hardrock showings have been located on ridge crests or hilltops even though streambeds are a logical place to explore for a gold source.

During regional mapping in 1983, Debicki noted an old 2 metre square shaft extending several tens of metres into bedrock in the Sulphur Creek valley bottom just downstream of Brimstone. Geology consisted of weakly sericitized and highly pyritic chlorite quartz schist. During 1985 United Keno Hill Mines conducted a wide-ranging exploration program for gold in the Klondike. They staked a large block of claims along the length of Sulphur Creek and explored with three lines of percussion drilling: one near the mouth of Sulphur, one about 2.0 kilometres below Brimstone and one at the mouth of Green Gulch, about 10 kilometres upstream of Brimstone. Although these lines were chosen strictly on the basis of assessment requirements as opposed to any form of exploration target, significant mineralization grading greater than 10,000 ppb Au over 3.0 metres was located in the vicinity of Green Gulch. The intersection was in saprolitic pyritic and veined chlorite sericite schist near its contact with less altered schist and occurred within a 21 metre interval with common



Regional Map - Brimstone Project Final Report



Scale approx. 1:600,000

604000

605000

606000

138°50'0"W  
607000

115-O-10

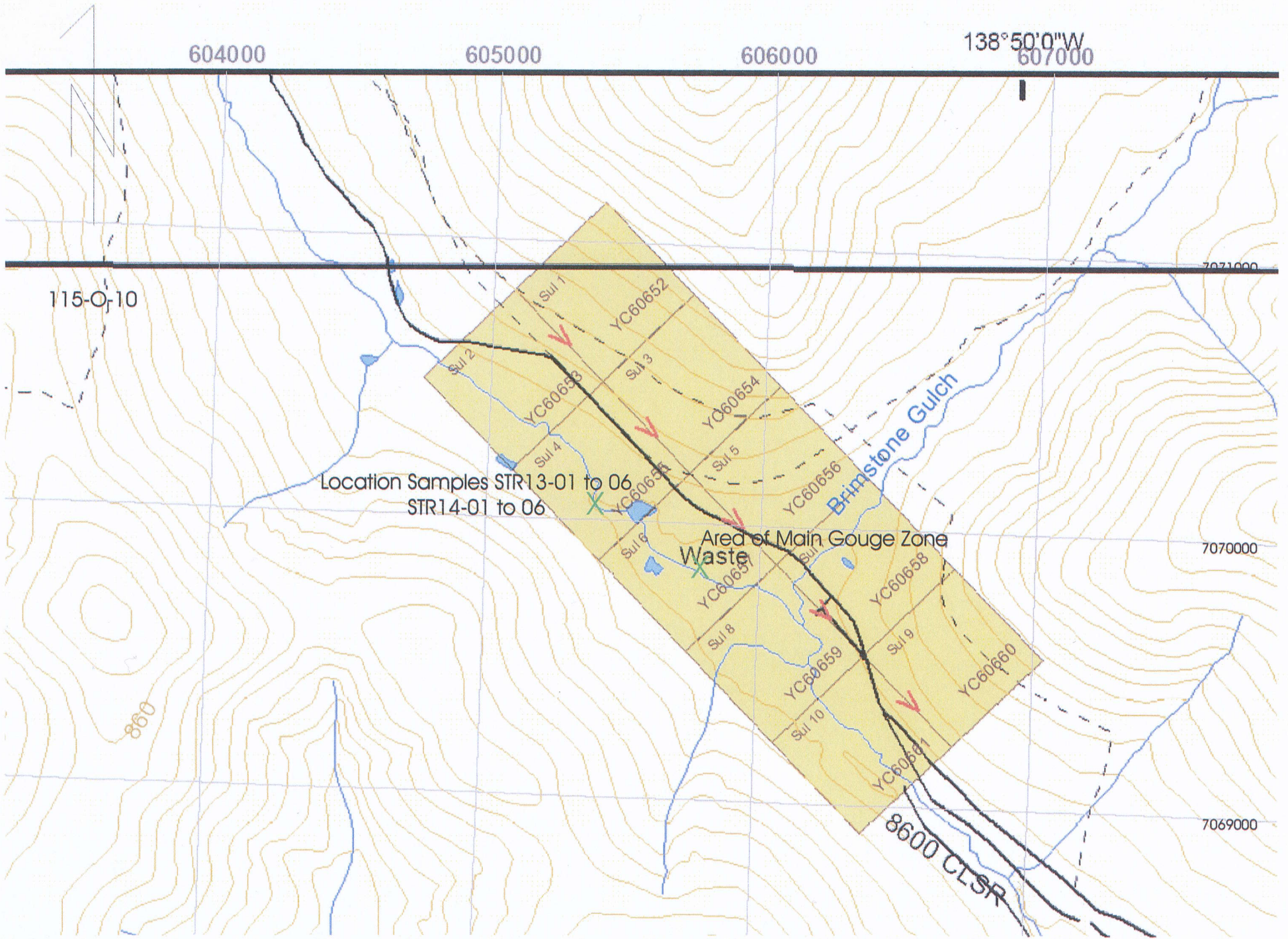
Location Samples STR13-01 to 06  
STR14-01 to 06

Area of Main Gouge Zone  
Waste

7071000

7070000

7069000



values in the 1000-1500 ppb Au range (assessment report 091946). Although the results were significant, it was thought that the gold values represented placer contamination from surficial material at the collar, and only limited follow-up work was completed.

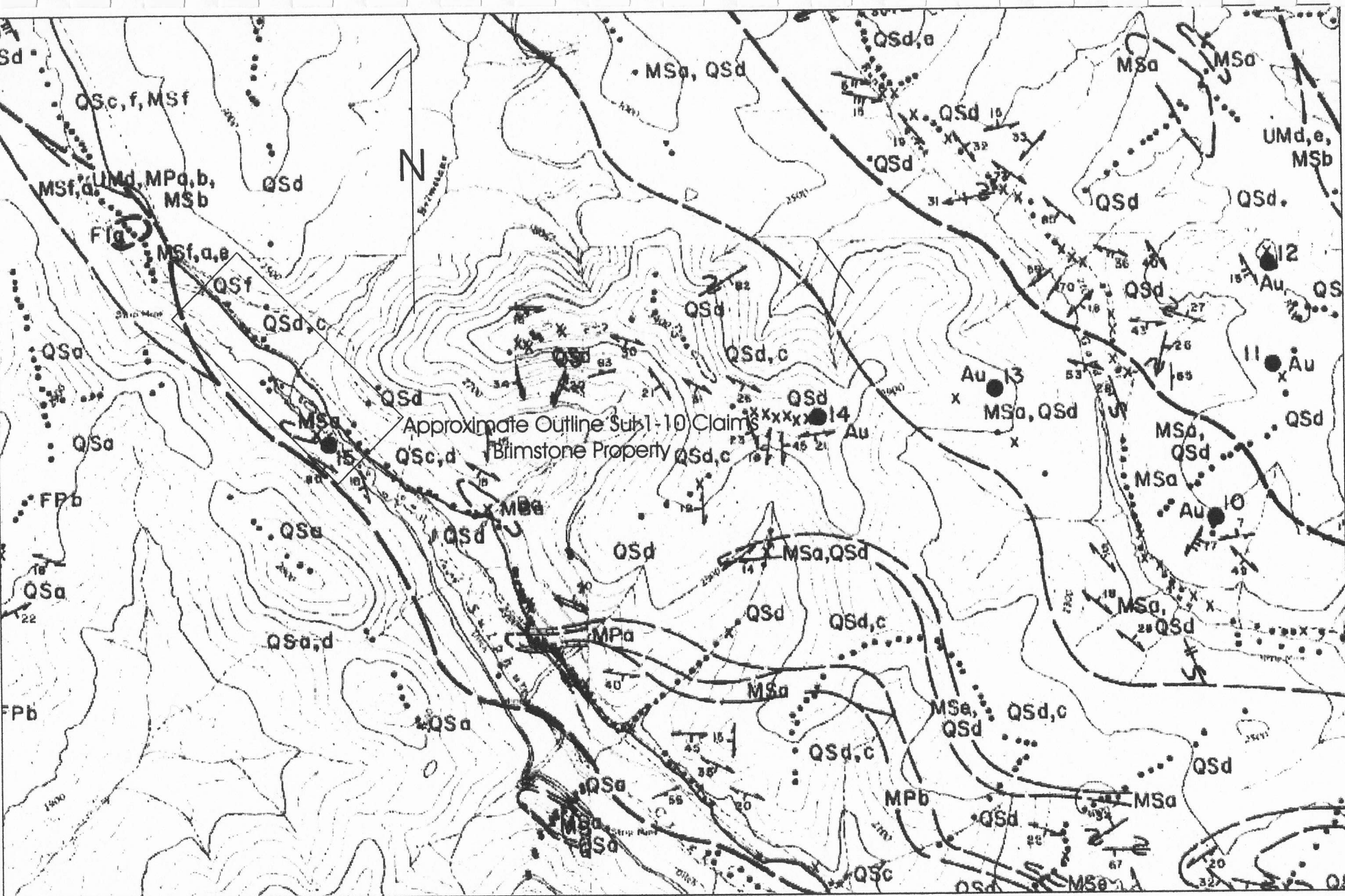
During the spring of 2006 the author conducted a literature search of recent placer mining efforts along Sulphur Creek, with a view towards assessing whether any of the data would be helpful in directing hardrock exploration. Reported gold production from Sulphur Creek for the period 1978-2002 totaled 116,000 ounces, with Sulphur often rating as one of the top 5 producers in the Klondike. This work also detailed operations located at the mouth of Brimstone Gulch which were recovering abundant pyrite and much jagged gold with quartz in an area of decomposed bedrock (YPMI 85-88 p.72; YPMI 83-84 p.134). This information was thought to be suggestive of a gold source in the vicinity of Brimstone Gulch, and a one-day trip was planned to prospect the length of Sulphur. This work resulted in 10 samples of bedrock and 21 samples of angular proximally derived tailings taken along a 14 kilometre stretch of Sulphur centred at the mouth of Brimstone.

Four of these samples were taken from bedrock exposed in a 60 metre by 100 metre placer mining cut at the mouth of Brimstone Gulch. Results were encouraging, with a 1.5 metre chip sample of grey-blue pyritic gouge grading 2280 ppb Au, a 0.1 metre sample of a crumbly/friable quartz vein with crystal lined cavities and wispy black sulphides grading 938 ppb Au, and a 0.5 metre sample of green-white pyritic gouge grading 170 ppb Au. All samples, apart from the quartz vein sample, were chosen to randomly represent the most common rock types exposed in the pit. Apparently the area of altered and decomposed bedrock with abundant pyrite extends over a large portion of the valley bottom, and that when sluicing this type of material, approximately 1.4-1.8 metres of it were taken as gold values were found within it (Lance Gibson, local placer miner, pers comm).

**Geology** – Bedrock on Sulphur at the mouth of Brimstone is predominantly a slightly varied sequence of chloritic quartz schist. Alteration and mineralizing events have affected this sequence in amounts varying from trace, to a near total obliteration of original lithology. Generally the area has been affected by widespread carbonate alteration of variable intensity and is cut by northwest trending (valley parallel) quartz-carbonate-pyrite +/- galena veins. Fuchsite is commonly, but not always, associated with quartz-carbonate veined areas, and in fact its distribution is somewhat enigmatic, although it does seem to be preferentially located along valley parallel trends and is somewhat more common in the vicinity of more mafic schist or darker gouge. Gouge occurs as widespread patches and lenses, also generally valley parallel, within this sequence. The ultimate geometry of the gouge zones remains to be defined. Pyrite is ubiquitous within the gouge and is somewhat less widespread within more competent rock. The colour of gouge varies from white to green to grey-blue and can be quite intense from a visual standpoint.

Overall it is felt that the exposed bedrock represents the surface trace of the core of a regional scale thrust fault that parallels Sulphur Creek valley bottom from the headwaters to about 3-4 kilometres up from the mouth.

**Current Work And Results** – Work was conducted during a series of trips spread over the summer in part to allow for results to be received prior to the next trip, and in part to maximize the viewing of bedrock as it was gradually exposed (and buried) by the miners.



To Accompany: Brimstone Project Final Report

January 30th, 2008

Fig.4 (1:50,000 approx)

Geology By Debicki R.L. (Open file 1985-1)

## LEGEND

### LATE CRÉTACEOUS TO EARLY TERTIARY

#### Felsic intrusive and volcanic rocks

FI

- FIa light coloured quartz-feldspar rhyolite porphyry and rhyolite
- FIb tan coloured latite and biotite-quartz latite porphyry
- FIc latitic lapilli tuff
- FId monolithic rhyolite
- FIe heterolithic rhyolite breccia
- FIf layered rhyolitic lapilli tuff

#### Intermediate intrusive and volcanic rocks, and associated sedimentary rocks

II

- IIa massive dark grey weathering intrusive andesite
- IIb massive chocolate brown weathering extrusive andesite
- IIc andesitic lapilli tuff
- IId siltstone, greywacke, and conglomerate
- IIe tan coloured dacite and amphibole-feldspar latite porphyry

### EARLY CRÉTACEOUS AND / OR OLDER

#### Diabase dykes

DD

- DD dark brown diabase

### TRIASSIC OR OLDER

#### Rocks of varying metamorphic grade and degree and style of deformation

FP,QS

#### Felsic plutonic rocks

- FPa foliated equigranular biotite granodiorite
- FPb foliated coarse grained granodiorite
- QSa blocky weathering light grey to pinkish feldspar-quartz schist
- QSh pink and green banded muscovite-feldspar-quartz gneiss
- FPc porphyritic quartz monzonite and augen gneiss
- FPd foliated fine to coarse grained quartz monzonite

#### Intermediate plutonic rocks

IP

- IPa weakly foliated chlorite metadiorite
- IPb strongly foliated chlorite metadiorite

#### Mafic plutonic rocks

MP

- MPa weakly foliated amphibolite
- MPb strongly foliated amphibolite

#### Quartzofeldspathic schistose rocks

QS

- QSa buff to pale green weathering well foliated muscovite-feldspar-quartz schist with quartz and feldspar porphyroclasts, and lithic fragments
- QSc buff weathering well foliated muscovite-feldspar-quartz schist with quartz porphyroclasts
- QSD buff weathering well foliated muscovite-feldspar-quartz schist
- QSe light green weathering hornblende/muscovite-feldspar-quartz schist
- QSF silvery grey weathering sericite-quartz schist
- QSG buff to khaki weathering massive muscovite-feldspar-quartz cataclasis
- QSI white to dark grey weathering well foliated feldspar-quartz mylonite with or without quartz porphyroblasts
- Qsj muscovite-quartz schist with more than 5% garnet, and with or without chlorite
- QSk biotite-quartz schist, with or without calcite
- QSl quartzite
- QSm kyanite-garnet-muscovite-quartz schist

#### Carbonaceous rocks

CS

- CSa massive to foliated dark grey to black carbonaceous quartzite and muscovite-quartz schist
- CSb black carbonaceous marble and carbonaceous muscovite-quartz-calcite schist
- CSc muscovite-feldspar-quartz schist with carbonaceous wisps
- CSd silty carbonaceous schist with mafic tuffaceous component

MB

#### Marble

- MBa cream and grey banded marble, with or without minor quartz, muscovite, and garnet
- MBb massive cream to light grey marble
- MBc marble with more than 5% garnets
- MBd grey to dark grey muscovite-quartz-calcite schist, with or without garnet

MV

#### Mafic metavolcanic rocks

- MVa andesitic tuff to tuff breccia
- MVb massive andesitic greenstone
- MVc foliated andesitic greenstone

MS

#### Mafic schistose rocks

















- MSa light to medium green and buff weathering chlorite-quartz schist
- MSb dark green weathering chlorite schist
- MSc silvery green weathering actinolite-chlorite schist
- MSd grey-brown weathering quartz-amphibole schist
- MSe light to medium green and buff weathering calcareous chlorite-quartz schist; calcite may be disseminated, in thin layers, or as small pink blebs
- MSf silvery green weathering muscovite-chlorite-quartz schist with bluish quartz porphyroclasts
- MSg garnet-feldspar-chlorite schist
- MSH garnet-feldspar-amphibole schist
- MSi mottled green and black biotite-epidote schist

UM

#### Ultramafic rocks

- UMa massive dark green serpentinite
- UMB foliated dark green serpentinite
- UMc foliated weakly altered serpentinite with or without chrysotile
- UMd foliated strongly altered serpentinite, including talc schist and listwanite
- UME coarsely crystalline rusty weathering white marble

### SYMBOLS

-    rock in rubble piles, falsenmeer and soil; small outcrop; area of outcrop.
-  geological boundary
-  f<sub>2</sub> event thrust fault
-  f<sub>3</sub> event thrust fault
-  fault or lineament
-  dyke.
-  bedding, top unknown (horizontal, inclined, vertical).
-  foliation (f<sub>1</sub> or indeterminate) (horizontal, inclined, vertical).
-  foliation (apparent f<sub>2</sub>) (horizontal, inclined, vertical).
-  foliation (apparent f<sub>3</sub>) (horizontal, inclined, vertical).
-  lineation
-  axial plane of small scale folds (inclined, vertical, with plunging fold axis).
-  joint (horizontal, inclined, vertical).
-  mineral occurrence (see list of occurrences).

Geology by R.L. Debicki and G. Baldwin, 1984.

It is recommended that reference to this report be made in the following form:

Debicki, R.L. 1985. Bedrock geology and mineralization of the Klondike Area (east), 1150-9, 10, 11, 14, 15, 16, and 116B-2, Exploration and Geological Services Division Yukon; Indian and Northern Affairs Canada, Open File 1: 50,000 scale map with marginal notes.



The initial round of sampling was conducted during two trips in May and consisted of hand trenching and sampling of exposed gouge zones first sampled in 2006 as well as some prospecting and sampling in the general area. A total of 12 of 33 samples from the gouge area returned greater than 100 ppb Au, to a maximum of 1520 ppb Au over 0.7m. Trace element geochemistry showed an excellent arsenic-gold correlation. Overall, results were thought to be very encouraging and a follow-up excavator trenching program was planned.

The first phase of excavator trenching was designed to test the theory that the gold values were associated with the gouge zones, and that the gouge zones were generally oriented valley parallel. A total of 7 trenches were excavated with an aggregate length of 95.9m and an average depth and width of 1.5m yielding a total of 54 channel samples taken. Trenching and sampling was extremely difficult due to abundant groundwater inflow. Situation was such that frequent "bailing" of the trench using the excavator bucket was necessary and sometimes only 2 or 3 channel samples could be taken during the time it took the trench to fill past boot level. Results were somewhat disappointing, with a total of only 3 anomalous intersections (7 of 54 channel samples) encountered, yielding a maximum value of 601 ppb Au over 6.3m. Detailed reconnaissance prospecting and hand trenching was completed in the general area surrounding the gouge zone. An area approximately 400m to the north of the gouge zone contained geology and alteration similar to that which is found peripheral to the main gouge zone. This spot was being prepared for mining later in the season.

The second phase of excavator trenching was designed to test for continuations or strike extents to anomalous channel sample intervals encountered during first phase. A total of 5 trenches with an aggregate length of 40.6m, width of 1.5m and depths of up to 3.5m yielded 26 channel samples. North-south (valley parallel) continuity was unable to be proven, while the previous best sample (601 ppb Au over 6.3m) was extended east to a total (width?) of 513 ppb Au over 9.4m. One interesting observation gained was that mineralized and gold-bearing gouge was found to be underlying un-mineralized crumbly schist. Crumbly schist about 1.0m below surface yielded <5 ppb Au over 3.1m while gouge encountered about 2.5m directly below yielded 335 ppb Au over 3.1m. Once again there was an excellent correlation between arsenic and gold.

The third phase of excavator trenching was designed to test for an east-west control on gouge distribution. It yielded 43 channel samples from one trench 100.6m long cut approximately 35 metres due east of the main gouge area. One +/- 3.0m wide east-west trending gouge zone was encountered, and although very similar in nature to the main gouge zone, it was not auriferous. Some hand trenching and sampling was also conducted, approximately 400m north of the main gouge zone, in an area of pyritic bedrock and gouge recently exposed by placer mining. Two gold anomalous samples were returned, but there was no immediate indication on surface of an improvement to continuity or grade over what was currently encountered in the main gouge zone.

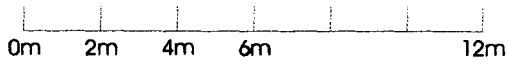
**Reclamation** – Surface disturbance were created during this program. Many of the excavated trenches were subsequently backfilled by the placer miners who used the trenching site as an overburden disposal area. Some trenches remained open, but the sides were rapidly sloughing in due to abundant groundwater inflow (+/- 150 igpm in spots) and the crumbly nature of rock. The ends of trenches were contoured to allow an escape point for anything that happened to fall into the trench. It is anticipated that the entire trenched area will be covered with overburden by the start of the 2008 placer mining season (Kris Kana/Lance Gibson, placer miners, pers comm).



115-O-10

To Scale Sketch Map

Approximate Locations of Early May Hand Samples  
Brimstone Project



1:200

— Sul 19

Sul 13 to 16 —

— Sul 11

— Sul 12

605723E/7069948N NAD83

Sul 1 to 5 —

— Sul 6, 7

Sul 8, 9, 10 —

Sul 40 to 44 and 51 to 55

X

Sul 18 —

X Grab samples 19-23 X

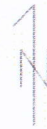
## Excavator Trench Table

Trench #	Size LxWxD (m)	Best Value	Target	Discussion
Trench 1	11.1x1.5x1.5	NA	south extent of gouge zone	? trench deep enough
Trench 2	11.7x1.5x1.5	NA	west continuation of above	? trench deep enough
Trench 3	15.1x1.5x2.5	NA	east extent of gouge zone	anomalous As only
Trench 4	8.2x1.5x1.5	394ppbAu/4.2m	west extent gouge zone	black gouge
Trench 4A	21.0x1.5x1.25	85.4ppmAg/1.1m	just east of above	galena in carb veins
Trench 5	9.8x1.5x1.5	NA	north extent of gouge zone	? trench deep enough
Trench 6	10.7x1.5x1.25	363ppbAu/1.8m	hand trench samples 6/7	weak fuchsite in gouge
Trench 7	8.3x1.5x1.5	601ppbAu/6.3m	hand trench sample 18	black gouge + fuchsite
Trench 8	8.0x1.5x1.25	123ppbAu/1.9m	west of trench 4	black/orange gouge
Trench 9	11.1x1.5x1.5	NA	north of trench 4	anomalous As only
Trench 10	5.2x1.5x1.0	158ppbAu/2.0m	west extent trench 7	beige gouge anomalous As
Trench 10A	3.1x1.5x3.0	335ppbAu/3.1m	east extent trench 7	as above
Trench 11	12.1x1.5x2.5	208ppbAu/2.9m	north extent trench 6	anomalous As + fuchsite
Trench 12	100.6x1.5x1.5	NA	pyritic schist in stream	trace arsenic only

**Reclamation** – Surface disturbance were created during this program. Many of the excavated trenches were subsequently backfilled by the placer miners who used the trenching site as an overburden disposal area. Some trenches were backfilled, while ones that remained open were rapidly sloughing in due to abundant groundwater inflow (+/- 150 igpm in spots) and the crumbly nature of rock. The ends of trenches were contoured to allow an escape point for anything that happened to fall into the trench. It is anticipated that the entire trenched area will be covered with overburden by the start of the 2008 placer mining season (Kris Kana/Lance Gibson, placer miners, pers comm).

**Conclusions** – It appears that the mineralization is located in the core of a shallowly east dipping thrust fault. Best gold values appear to be within gouge near its contact with more competent rock. Gold values show an excellent correlation with arsenic, a lesser correlation with the presence of fuchsite and a vague correlation with increased pyrite. The gouge is likely a result of hydrothermal processes as opposed to tectonic forces. Overall, controls on gold deposition are poorly understood. Gouge and pyrite is reported to be widespread in the Sulphur Creek valley bottom. Although grades encountered to date are generally un-economic (513 ppb Au over 9.4m trench 7 and 10A extension), further work is recommended due to the regional scale of the thrust fault, the previously reported high grades within it (10,000 ppb Au over 3.0m) the reported widespread nature of gouge and sulphides along it and its generally poorly exposed nature. Potential remains high for a significant gold deposit within this regional scale structure either at depth in the area where gouge is exposed or along strike in tailings covered sections. More work is necessary to fully explore this structure.

**Recommendations** – First phase: Lithochemical sampling, and alteration mapping, of cobbles within the placer tailings piles along Sulphur Creek in an effort to locate areas anomalous in arsenic and with carbonate alteration. Frequent visits to the various placer miners located along the creek, in an effort to assess bedrock as it is exposed. Bedrock sampling of covered areas can be accomplished using a placer auger drill which will rapidly and cheaply (\$12-14/ft with ave hole depth 25 feet) pierce the tailings and generally penetrate at least 10-15 centimetres into the hardest bedrock. Several auger holes (+/- 8) should be drilled into the known gouge zone(s) at the mouth of Brimstone, and to the NW in the new placer pit (STR13 and STR14), in an effort to see if grades

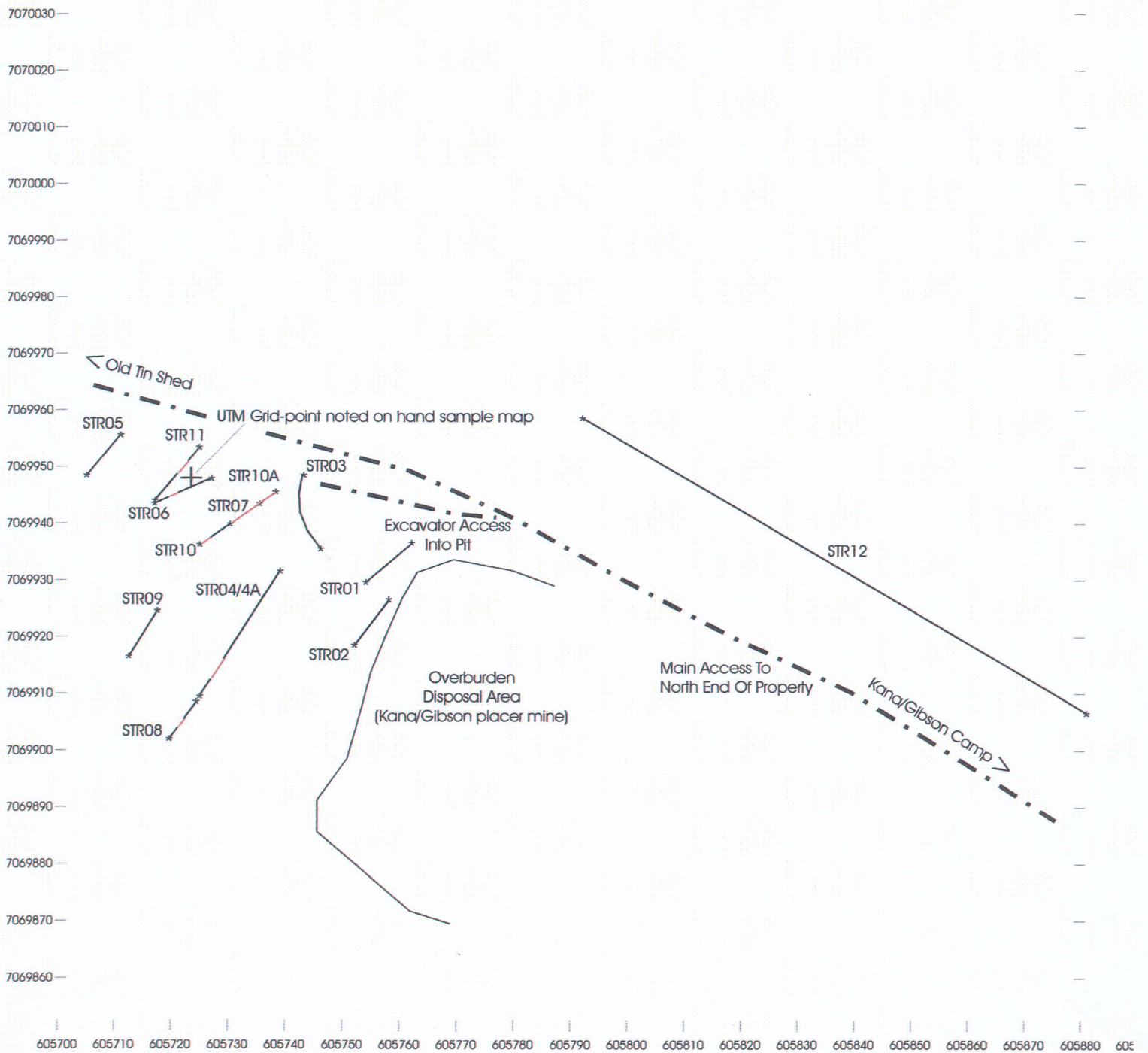


1:1000  
1cm = 10m



115-O-10  
Sulphur Trench Map  
NAD83

 = gold anomalous trench interval



increase or conditions change at depth. An auger drill will easily penetrate this gouge material to at least a 10 metre depth. Some additional trenching should be completed as follows: a 40m east-west trench from the south end of trench STR03 to the west; a 40m east-west trench centred at the SW end of trench STR08; a 40m trench paralleling the north side of the main access road from the north end of STR03 to the W-N-W. An attempt should be made to define geological controls on gold deposition.

Second Phase: VLF and IP geophysical surveys in an effort to define structure and locate areas with increased sulphide concentrations. Anomalous zones outlined by first phase and enhanced by second phase should be diamond drilled to provide a depth test of the structure. The ease of access will allow for a low-cost program.

### Statement Of Costs

Truck Costs For 2 Round-Trips, Whitehorse-Dawson (2048km x \$0.52/km)	=	\$1064.96
Truck Costs For Daily Round-Trips, Dawson-Property (530km x \$0.52/km)	=	\$275.60
Trucking Excavator To And From Property	=	\$787.05
Excavator Costs Trenching JD892E (CAT 235 Equiv) (39 hours x \$120/hour)	=	\$4680.00
Room, Board And Camp Supplies (13.5 man-days x \$35/day)	=	\$472.50
Sample Analysis on 184 samples (30g Au + ICP)	=	\$5744.45
Wages Bernie Kreft (8 days x \$350/day)	=	\$2800.00
Wages Phil Christensen (1.5 days x \$300/day)	=	\$450.00
Wages Livingstone Placer (M.Fuerstner) (4 days)	=	\$1272.00
Report Preparation And Duplication	=	<u>\$1000.00</u>
<b>TOTAL</b>	=	<b>\$18546.56</b>

Sample	Au-AA23	ICP41	ICP41	ICP41	Width	Description	Secondary
Analyte	Au	Pb	Ag	As			
Units	ppm	ppm	ppm	ppm			
SUL 07-01	0.435	16	4.1	2400	1.0m	sericite altered chlorite schist	black sulphide
SUL 07-02	0.363	25	2.5	1560	0.6m	limonitic blue grey gouge	
SUL 07-03	0.404	37	2	2410	0.2m	as above	sheared qtz boudin
SUL 07-04	0.01	23	0.8	299	1.0m	as above	
SUL 07-05	0.007	36	0.9	682	1.0m	carbonate veined chlorite schist	brown to green gouge
SUL 07-06	0.955	20	4.8	3850	0.6m	green-grey gouge	
SUL 07-07	1.52	11	6	7360	0.7m	grey-green gouge	pyrite and yellow fragments
SUL 07-08	0.458	64	2.3	1720	0.6m	carbonate veined chlorite schist	muscovite and sericite
SUL 07-09	1.05	10	5	2310	0.6m	as above	as above
SUL 07-10	0.05	159	3.7	601	0.6m	as above	as above
SUL 07-11	< 0.005	11	0.6	146	1.0m	grey gouge	pyrite
SUL 07-12	0.807	11	1.5	4940	1.2m	grey-blue gouge	pyrite
SUL 07-13	0.007	14	1.2	197	0.6m	quartz porphyry schist	pyrite
SUL 07-14	0.046	12	3.4	259	0.3m	quartz sericite schist	grey gouge
SUL 07-15	< 0.005	15	2.5	839	0.6m	quartz biotite schist	pyrite
SUL 07-16	< 0.005	21	0.9	353	1.0m	carbonate veined chlorite schist	black sulphide
SUL 07-17	0.044	32	2.3	475	1.4m	as above	as above
SUL 07-18	1.335	247	6.8	6180	1.2m	green-black gouge	pyrite
SUL 07-19	0.022	2810	66.2	381	grab	as above	more competent
SUL 07-20	0.037	1595	90.9	149	grab	miarolitic discordant qtz vein	trace galena
SUL 07-21	0.032	984	12.9	745	Lost		
SUL 07-22	0.052	141	6.1	2190	Lost		
SUL 07-23	< 0.005	14	0.6	63	Lost		
SUL 07-24	< 0.005	10	0.5	10	Lost		
SUL 07-25	< 0.005	12	0.6	3	Lost		
SUL 07-26	< 0.005	14	0.2	6	Lost		
SUL 07-27	0.123	6	8.4	< 2	Lost		
SUL 07-28	< 0.005	8	2.7	< 2	Lost		
SUL 07-29	0.007	10	0.6	17	Lost		
SUL 07-30	< 0.005	6	1	4	Lost		
SUL 07-31	< 0.005	6	1.9	4	Lost		
SUL 07-31A	< 0.005	6	0.2	< 2	Lost		
SUL 07-32	< 0.005	3	0.2	3	Lost		
SUL07-40	0.628	187	1.9	1070	0.5m	green-grey gouge	pyrite

SUL07-41	0.041	23	0.8	389	0.5m	sericite altered chlorite schist	fuchsite
SUL07-42	0.203	27	1.5	870	0.5m	silver-grey gouge	pyrite
SUL07-43	0.068	23	0.9	546	0.5m	as above	as above
SUL07-44	0.31	37	1.3	847	0.5m	grey-green-black gouge	as above
SUL07-45	0.048	20	0.7	89	0.5m	sericite altered chlorite schist	pyrite
SUL07-46	0.036	23	0.8	35	0.5m	sericite altered chlorite schist	pyrite and numerous vugs
SUL07-47	< 0.005	40	0.5	24	0.5m	sericite altered chlorite schist	fuchsite
SUL07-48	< 0.005	196	3.6	41	0.5m	as above	pyrite
SUL07-49	< 0.005	4	0.2	2	0.5m	as above	pyrite
SUL07-50	< 0.005	< 2	0.2	< 2	0.5m	as above	pyrite
SUL07-51	0.063	39	1.2	542	0.5m	as above	pyrite
SUL07-52	0.515	442	4.2	210	0.5m	as above	pyrite
SUL07-53	0.014	21	0.5	195	0.5m	as above	pyrite
SUL07-54	0.008	39	0.7	59	0.5m	grey-green-black gouge	pyrite
SUL07-55	< 0.005	14	0.3	142	0.5m	as above	as above
SUL07-56	< 0.005	< 2	< 0.2	5	0.5m	sheared qtz vein	
SUL07-57	0.016	114	0.9	91	0.5m	sericite altered chlorite schist	pyrite and numerous vugs
STR01-01	0.005	8	0.5	141	2.2m	chlorite muscovite qtz eye schist	
STR01-02	< 0.005	10	0.2	19	1.4m	chlorite muscovite qtz eye schist	
STR01-03	< 0.005	9	0.2	14	1.0m	chlorite muscovite qtz eye schist	
STR01-04	< 0.005	12	0.2	6	1.1m	chlorite muscovite qtz eye schist	
STR01-05	< 0.005	99	2.2	8	1.0m	chlorite muscovite qtz eye schist	
STR01-06	< 0.005	33	0.4	6	0.9m	chlorite muscovite qtz eye schist	
STR01-07	< 0.005	29	0.4	196	0.8m	chlorite muscovite qtz eye schist	
STR01-08	< 0.005	38	0.4	21	0.9m	chlorite muscovite qtz eye schist	
STR01-09	< 0.005	19	0.5	37	1.8m	chlorite muscovite qtz eye schist	fuchsite
STR02-01	< 0.005	20	0.6	7	1.8m	chlorite muscovite qtz eye schist	fuchsite
STR02-02	< 0.005	9	0.5	113	1.8m	chlorite muscovite qtz eye schist	
STR02-03	< 0.005	18	0.5	63	1.7m	chlorite muscovite qtz eye schist	carbonate veins
STR02-04	< 0.005	27	0.8	476	1.1m	as above trace gouge	carbonate veins
STR02-05	< 0.005	18	0.4	48	2.4m	as above trace gouge	
STR02-06	< 0.005	12	0.6	186	2.9m	as above trace gouge	
STR03-01	< 0.005	28	0.6	62	2.7m	grey-white-green gouge	pyrite, trace fuchsite
STR03-02	< 0.005	9	0.3	279	1.9m	grey-white-green gouge	pyrite, trace fuchsite
STR03-03	0.008	9	0.6	730	1.5m	grey-white-green gouge	pyrite, trace fuchsite
STR03-04	0.03	31	0.7	933	1.7m	grey-white-green gouge	pyrite, trace fuchsite
STR03-05	0.023	9	0.6	948	1.4m	grey-white-green gouge	pyrite, trace fuchsite

STR03-06	< 0.005	13	0.3	117	1.0m	grey-white-green gouge	pyrite, trace fuchsite
STR03-07	< 0.005	8	0.4	255	1.2m	grey-white-green gouge	pyrite, trace fuchsite
STR03-08	0.008	9	0.7	403	1.2m	grey-white-green gouge	pyrite, trace fuchsite
STR03-09	< 0.005	9	0.3	90	2.5m	grey-white-green gouge	pyrite, trace fuchsite
STR04-01	< 0.005	65	0.9	59	1.6m	black-grey gouge	pyrite
STR04-02	0.005	22	0.4	159	1.4m	grey gouge	pyrite
STR04-03	0.287	73	1.1	1025	1.6m	grey-black gouge	pyrite
STR04-04	0.677	39	1.4	122	1.1m	green-black gouge	pyrite
STR04-05	0.304	27	1.5	1530	1.5m	black-grey gouge	pyrite, limonitic
STR04-06	0.013	9	0.5	167	1.7m	grey-black gouge	pyrite
STR04-07	< 0.005	11	0.5	40	1.7m	silver-grey gouge	pyrite
STR04-08	0.017	196	0.9	82	1.7m	grey gouge	pyrite
STR04-09	0.012	108	1	223	1.9m	grey gouge	pyrite
STR04-10	< 0.005	178	1.1	24	2.2m	silver-grey gouge	pyrite
STR04-11	< 0.005	46	0.4	15	1.4m	grey gouge	pyrite
STR04-12	< 0.005	38	0.7	36	1.5m	grey gouge	pyrite, fuchsite
STR04-13	< 0.005	21	0.3	55	2.0m	grey gouge	pyrite
STR04-14	0.005	29	0.5	41	1.1m	grey gouge	pyrite
STR04-15	< 0.005	6	0.4	47	1.5m	grey gouge	pyrite
STR04-16	< 0.005	23	0.6	146	1.8m	carbonate veined chlorite schist	pyrite, trace galena
STR04-17	0.053	1950	85.4	177	1.0m	carbonate veined chlorite schist	pyrite, galena
STR05-01	0.005	51	1.1	118	2.1m	chlorite muscovite qtz eye schist	trace pyrite
STR05-02	< 0.005	28	1.4	130	1.1m	carb altered above	trace pyrite
STR05-03	< 0.005	61	0.7	32	1.7m	as above trace gouge	trace pyrite
STR05-04	< 0.005	21	0.7	11	2.4m	as above trace gouge	trace pyrite
STR05-05	< 0.005	21	0.7	15	2.5m	as above more gouge	trace pyrite
STR06-01	< 0.005	26	0.4	17	2.5m	chlorite muscovite qtz eye schist	trace pyrite
STR06-02	0.363	42	1.7	2370	1.8m	grey-silver-black gouge	fuchsite
STR06-03	0.05	40	1	724	1.8m	grey-silver-black gouge	fuchsite
STR06-04	0.006	16	0.5	75	2.0m	grey-silver-black gouge	fuchsite
STR06-05	0.007	67	1.6	331	2.6m	grey-silver-black gouge	fuchsite
STR07-01	0.944	42	5.7	4430	2.9m	grey-silver-black gouge	
STR07-02	0.235	36	2.9	2360	1.5m	grey-silver-black gouge	limonitic, fuchsite
STR07-03	0.366	39	3.5	2830	1.9m	grey-silver-black gouge	limonitic, fuchsite
STR08-01	0.016	99	0.9	75	1.9m	grey-white-green gouge	pyrite
STR08-02	< 0.005	21	0.4	22	0.9m	grey-black gouge	pyrite
STR08-03	< 0.005	9	0.4	85	1.0m	grey-black gouge	pyrite



STR08-04	0.123	19	1	12	1.9m	black-orange gouge	pyrite
STR08-05	0.058	8	2.5	23	2.3m	black-orange gouge	pyrite
STR09-01	0.009	73	1	45	2.3m	grey-orange-black gouge	pyrite
STR09-02	< 0.005	33	0.4	47	1.0m	black-light green-beige gouge	pyrite
STR09-03	0.028	39	1.2	32	1.3m	green-beige-grey gouge	pyrite
STR09-04	0.073	53	4.6	605	1.5m	grey-silver gouge	quartz chunks, pyrite
STR09-05	0.019	173	0.9	114	2.5m	grey-silver gouge	pyrite
STR09-06	0.02	47	0.6	110	1.5m	green-orange-beige gouge	pyrite
STR10-01	< 0.005	11	1.2	366	1.1m	orange-beige-black gouge	cubic pyrite, fuchsite
STR10-02	< 0.005	15	0.5	110	2.1m	silver-grey gouge	pyrite
STR10-03	0.158	44	1.4	1920	2.0m	silver-grey gouge	pyrite
STR10-04	0.335	13	0.8	2650	3.1m	silver-grey gouge	pyrite
STR10-05	< 0.005	25	0.3	90	3.1m	limonitic chlorite schist	pyrite
STR10-06	0.321	13	0.8	2790	re 10-04	silver-grey gouge	pyrite
STR11-01	< 0.005	21	0.2	38	3.2m	beige-orange-grey gouge	pyrite
STR11-02	0.012	44	0.4	83	2.0m	silver-grey gouge	pyrite
STR11-03	0.015	27	0.3	166	1.1m	silver-grey gouge	pyrite
STR11-04	0.144	37	1	843	1.4m	silver-grey gouge	pyrite
STR11-05	0.245	18	1.5	2510	1.5m	beige-orange-grey gouge	pyrite
STR11-06	0.018	45	1.3	199	0.9m	silver-grey gouge	pyrite
STR11-07	0.031	14	0.8	306	1.5m	orange-beige-black less gouge	pyrite
STR11-08	< 0.005	92	1.5	204	0.5m	orange-beige-black less gouge	pyrite, fuchsite
STR11-09	0.029	11	0.8	302	re 11-07	orange-beige-black less gouge	pyrite
STR12-01	0.008	14	0.5	5	3.5m	qtz chlorite muscovite schist	
STR12-02	0.015	14	0.6	< 2	3.8m	qtz chlorite muscovite schist	
STR12-03	< 0.005	12	0.5	11	4.6m	qtz chlorite muscovite schist	
STR12-04	< 0.005	32	0.3	17	5.6m	qtz chlorite muscovite schist	limonitic
STR12-05	< 0.005	6	0.3	6	4.6m	qtz chlorite muscovite schist	biotite
STR12-06	< 0.005	8	0.3	23	6.4m	qtz chlorite muscovite schist	fractured
STR12-07	< 0.005	8	0.7	113	3.6m	qtz chlorite muscovite schist	trace gouge
STR12-08	< 0.005	7	0.4	75	5.8m	qtz chlorite muscovite schist	
STR12-09	< 0.005	8	0.5	206	4.7m	qtz chlorite muscovite schist	fractured
STR12-10	< 0.005	10	0.4	78	1.9m	qtz chlorite muscovite schist	fractured
STR12-11	< 0.005	9	0.3	17	4.7m	qtz chlorite muscovite schist	thin-bedded
STR12-12	< 0.005	14	0.2	14	3.8m	qtz chlorite muscovite schist	
STR12-13	< 0.005	11	0.3	20	2.1m	qtz chlorite muscovite schist	limonitic
STR12-14	< 0.005	9	0.2	22	2.6m	qtz chlorite muscovite schist	

STR12-15	< 0.005	40	0.2	16	2.6m	qtz chlorite muscovite schist	
STR12-16	< 0.005	20	0.3	21	3.2m	qtz chlorite muscovite schist	
STR12-17	< 0.005	16	< 0.2	17	2.6m	qtz chlorite muscovite schist	
STR12-18	< 0.005	26	0.4	15	2.1m	qtz chlorite muscovite schist	
STR12-19	< 0.005	9	0.2	27	2.2m	qtz chlorite muscovite schist	
STR12-20	< 0.005	8	0.3	7	2.3m	qtz chlorite muscovite schist	trace gouge
STR12-21	< 0.005	87	1.7	75	2.8m	qtz chlorite muscovite schist	trace gouge
STR12-22	< 0.005	12	0.5	15	1.9m	qtz chlorite muscovite schist	trace gouge
STR12-23	< 0.005	11	0.7	48	2.3m	chlorite muscovite qtz eye schist	
STR12-24	< 0.005	23	0.3	28	1.4m	silver-grey gouge	pyrite
STR12-25	< 0.005	12	0.4	17	1.1m	silver-grey gouge	pyrite
STR12-26	< 0.005	10	0.4	41	1.0m	silver-grey gouge	pyrite
STR12-27	< 0.005	38	0.8	6	1.4m	silver-grey gouge	pyrite
STR12-28	< 0.005	10	0.3	14	0.9m	qtz chlorite muscovite schist	
STR12-29	< 0.005	5	0.4	20	2.0m	qtz chlorite muscovite schist	
STR12-30	< 0.005	20	0.3	3	3.1m	qtz chlorite muscovite schist	trace gouge
STR12-31	< 0.005	13	0.3	2	1.6m	qtz chlorite muscovite schist	
STR13-01	< 0.005	8	0.6	3	1.0m	black-grey gouge	quartz fragments, pyrite
STR13-02	< 0.005	6	0.2	4	1.3m	black-grey gouge	quartz fragments, pyrite
STR13-03	0.007	8	0.4	5	1.6m	black-grey gouge	quartz fragments, pyrite
STR13-04	0.007	10	0.6	7	1.2m	black-grey gouge	quartz fragments, pyrite
STR13-05	0.177	9	1.3	314	1.2m	black-grey gouge	quartz fragments, pyrite
STR13-06	0.018	19	0.4	71	1.0m	black-grey gouge	quartz fragments, pyrite
STR14-01	< 0.005	11	1.1	62	0.6m	qtz chlorite muscovite schist	carb altered, pyrite
STR14-02	0.028	5	0.5	14	1.1m	qtz chlorite muscovite schist	carb altered, pyrite
STR14-03	0.525	10	0.7	40	0.7m	qtz chlorite muscovite schist	carb altered, pyrite
STR14-04	< 0.005	< 2	0.2	20	1.2m	qtz chlorite muscovite schist	carb altered, pyrite
STR14-05	0.013	7	< 0.2	6	0.4m	qtz chlorite muscovite schist	carb altered, pyrite
STR14-06	0.058	10	< 0.2	26	1.1m	qtz chlorite muscovite schist	carb altered, pyrite

## **Statement Of Qualifications**

I, Bernie Kreft, conducted the exploration work described herein.

I have over 22 years prospecting experience in the Yukon.

This report is based on fieldwork conducted or witnessed by myself, and includes information from various publicly available assessment reports.

This report is based on fieldwork completed during the 2007 field season.

This report is based on fieldwork completed on the Sul quartz claims.

Respectfully Submitted,

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**Bernie Kreft**



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Finalized Date: 20-MAY-2007  
Account: KREBER

## CERTIFICATE OF ANALYSIS VA07048156

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
SUL 07-01		1.58	0.435	4.1	0.35	2400	<10	180	<0.5	<2	0.50	0.5	7	15	35	1.79
SUL 07-02		0.96	0.363	2.5	0.41	1560	<10	140	<0.5	<2	0.37	0.5	10	5	21	1.46
SUL 07-03		1.36	0.404	2.0	0.48	2410	<10	220	<0.5	<2	0.62	0.8	8	13	29	1.61
SUL 07-04		0.92	0.010	0.8	0.42	299	<10	210	<0.5	<2	0.70	0.6	7	8	32	1.55
SUL 07-05		1.16	0.007	0.9	0.40	682	<10	160	<0.5	<2	3.67	1.0	16	20	30	4.22
SUL 07-06		1.40	0.955	4.8	0.36	3850	<10	150	<0.5	<2	0.22	0.6	9	11	41	1.66
SUL 07-07		0.64	1.520	6.0	0.39	7360	<10	190	<0.5	<2	0.19	0.8	9	10	44	2.25
SUL 07-08		1.42	0.458	2.3	0.38	1720	<10	150	<0.5	<2	1.66	1.3	9	9	34	2.17
SUL 07-09		1.02	1.050	5.0	0.36	2310	<10	180	<0.5	<2	1.25	0.8	11	8	43	2.33
SUL 07-10		0.98	0.050	3.7	0.29	601	<10	150	<0.5	<2	1.62	0.9	10	7	53	2.31
SUL 07-11		0.98	<0.005	0.6	0.58	146	<10	220	<0.5	<2	1.36	0.5	13	14	56	3.16
SUL 07-12		1.30	0.807	1.5	0.46	4940	<10	150	<0.5	<2	2.79	0.7	11	11	45	3.20
SUL 07-13		1.32	0.007	1.2	0.45	197	<10	220	<0.5	<2	0.73	0.5	9	9	41	1.83
SUL 07-14		1.16	0.046	3.4	0.31	259	<10	150	<0.5	<2	0.73	0.5	9	10	29	1.81
SUL 07-15		1.40	<0.005	2.5	0.55	839	<10	240	<0.5	<2	1.43	0.8	11	14	60	2.64
SUL 07-16		1.36	<0.005	0.9	0.39	353	<10	180	<0.5	<2	1.94	0.7	12	10	54	2.61
SUL 07-17		1.30	0.044	2.3	0.30	475	<10	130	<0.5	<2	1.89	0.5	10	12	44	2.12
SUL 07-18		1.10	1.335	6.8	0.34	6180	<10	120	<0.5	<2	1.63	3.4	11	6	86	3.22
SUL 07-19		0.72	0.022	66.2	0.19	381	<10	100	<0.5	<2	3.95	2.3	4	6	149	2.68
SUL 07-20		0.40	0.037	90.9	0.06	149	<10	30	<0.5	<2	4.62	2.6	1	5	537	3.45
SUL 07-21		1.08	0.032	12.9	0.33	745	<10	190	<0.5	<2	2.99	0.7	6	4	91	2.40
SUL 07-22		0.52	0.052	6.1	0.21	2190	<10	100	<0.5	<2	4.54	15.3	45	73	102	4.36
SUL 07-23		0.88	<0.005	0.6	0.60	63	<10	180	<0.5	<2	1.28	0.5	7	11	32	2.11
SUL 07-24		0.70	<0.005	0.5	3.52	10	<10	20	<0.5	<2	2.35	<0.5	35	218	110	4.75
SUL 07-25		0.52	<0.005	0.6	4.51	3	<10	40	0.8	<2	4.26	<0.5	37	7	239	8.26
SUL 07-26		0.60	<0.005	0.2	3.60	6	<10	10	<0.5	<2	4.18	<0.5	27	73	54	5.75
SUL 07-27		0.82	0.123	8.4	4.03	<2	<10	30	<0.5	<2	0.55	1.9	40	24	3660	7.20
SUL 07-28		0.86	<0.005	2.7	3.47	<2	<10	110	<0.5	<2	1.77	0.8	50	35	2420	8.10
SUL 07-29		0.74	0.007	0.6	2.37	17	<10	20	<0.5	<2	16.3	0.8	34	25	1670	3.48
SUL 07-30		0.52	<0.005	1.0	2.21	4	<10	40	<0.5	<2	0.77	<0.5	26	6	815	4.01
SUL 07-31		0.90	<0.005	1.9	4.08	4	<10	30	<0.5	<2	0.44	<0.5	34	37	1080	7.05
SUL 07-32		1.44	<0.005	0.2	0.75	3	<10	740	<0.5	<2	0.33	<0.5	6	12	99	1.27
SUL 07-31A		0.42	<0.005	0.2	0.76	<2	<10	610	<0.5	<2	0.90	<0.5	10	14	74	1.24



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## CERTIFICATE OF ANALYSIS VA07048156

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
SUL 07-01		<10	<1	0.18	10	0.19	147	1	0.02	20	730	16	0.91	19	1	29
SUL 07-02		<10	<1	0.18	20	0.16	86	<1	0.02	29	760	25	0.80	14	1	22
SUL 07-03		<10	<1	0.24	10	0.23	187	<1	0.02	21	1050	37	0.82	20	2	30
SUL 07-04		<10	<1	0.23	10	0.42	299	<1	0.02	22	720	23	0.58	10	2	24
SUL 07-05		<10	<1	0.24	10	2.24	1140	<1	0.03	59	610	36	0.71	15	4	149
SUL 07-06		<10	<1	0.17	10	0.09	58	1	0.02	21	690	20	1.07	19	1	14
SUL 07-07		<10	<1	0.22	10	0.05	50	2	0.02	24	870	11	1.58	16	1	12
SUL 07-08		<10	<1	0.20	10	0.69	541	<1	0.02	30	660	64	0.85	26	3	90
SUL 07-09		<10	<1	0.22	10	0.45	350	1	0.02	36	650	10	1.58	22	2	50
SUL 07-10		<10	<1	0.18	10	0.70	501	1	0.02	31	570	159	1.01	47	2	64
SUL 07-11		<10	<1	0.22	10	0.97	866	<1	0.02	41	890	11	0.72	11	3	40
SUL 07-12		<10	<1	0.20	10	1.29	973	1	0.02	34	820	11	1.19	11	4	141
SUL 07-13		<10	<1	0.23	10	0.31	281	<1	0.02	31	690	14	0.78	5	2	25
SUL 07-14		<10	<1	0.19	10	0.26	176	1	0.02	34	460	12	1.08	16	2	24
SUL 07-15		<10	<1	0.27	10	0.80	587	1	0.04	44	670	15	0.76	13	3	47
SUL 07-16		<10	<1	0.22	10	1.02	715	1	0.03	34	890	21	0.66	9	3	65
SUL 07-17		<10	<1	0.16	10	0.92	599	1	0.03	47	650	32	0.49	12	3	98
SUL 07-18		<10	<1	0.15	10	0.69	590	1	0.02	32	740	247	1.82	49	3	101
SUL 07-19		<10	<1	0.13	<10	1.49	877	<1	0.02	17	340	2810	0.32	116	2	189
SUL 07-20		<10	<1	0.04	<10	1.94	972	<1	0.02	10	100	1595	0.58	596	2	269
SUL 07-21		<10	<1	0.21	10	1.00	649	<1	0.03	15	940	984	0.63	61	2	120
SUL 07-22		<10	<1	0.13	<10	1.70	1705	<1	0.03	612	860	141	1.69	35	4	192
SUL 07-23		<10	<1	0.18	10	0.79	474	<1	0.02	25	650	14	0.46	4	2	35
SUL 07-24		10	<1	0.03	<10	3.50	655	<1	0.03	151	580	10	1.13	<2	18	52
SUL 07-25		10	<1	0.13	10	2.88	1230	<1	0.03	20	1380	12	1.00	3	20	102
SUL 07-26		10	<1	0.05	10	2.53	937	<1	0.03	35	1200	14	0.36	<2	18	100
SUL 07-27		10	1	0.04	<10	2.97	1040	<1	0.01	38	130	6	1.33	<2	6	16
SUL 07-28		10	<1	0.32	<10	2.87	1025	<1	0.03	48	140	8	2.72	2	20	19
SUL 07-29		<10	<1	0.06	<10	1.96	1610	<1	0.02	32	90	10	0.29	<2	12	121
SUL 07-30		<10	<1	0.05	<10	1.61	474	<1	0.01	19	150	6	1.18	<2	5	20
SUL 07-31		<10	<1	0.02	<10	3.13	1220	<1	0.01	36	110	6	1.00	2	8	9
SUL 07-32		<10	<1	0.31	10	0.42	527	<1	0.01	29	240	3	0.17	<2	2	13
SUL 07-31A		<10	<1	0.26	10	0.45	1025	<1	0.01	44	290	6	0.09	2	2	25



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## CERTIFICATE OF ANALYSIS VA07048156

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
SUL 07-01		<20	<0.01	<10	<10	7	<10	58
SUL 07-02		<20	<0.01	<10	<10	4	<10	55
SUL 07-03		<20	<0.01	<10	<10	5	<10	117
SUL 07-04		<20	<0.01	<10	<10	5	<10	99
SUL 07-05		<20	<0.01	<10	<10	11	<10	213
SUL 07-06		<20	<0.01	<10	<10	6	<10	50
SUL 07-07		<20	<0.01	<10	<10	9	<10	61
SUL 07-08		<20	<0.01	<10	<10	7	<10	135
SUL 07-09		<20	<0.01	<10	<10	7	<10	98
SUL 07-10		<20	<0.01	<10	<10	6	<10	93
SUL 07-11		<20	<0.01	<10	<10	12	<10	115
SUL 07-12		<20	<0.01	<10	<10	13	<10	114
SUL 07-13		<20	<0.01	<10	<10	7	<10	75
SUL 07-14		<20	<0.01	10	<10	6	<10	84
SUL 07-15		<20	<0.01	<10	<10	10	<10	139
SUL 07-16		<20	<0.01	<10	<10	8	<10	108
SUL 07-17		<20	<0.01	<10	<10	7	<10	69
SUL 07-18		<20	<0.01	<10	<10	9	<10	269
SUL 07-19		<20	<0.01	<10	<10	6	<10	136
SUL 07-20		<20	<0.01	<10	<10	6	<10	151
SUL 07-21		<20	<0.01	<10	<10	7	<10	54
SUL 07-22		<20	<0.01	<10	<10	8	<10	443
SUL 07-23		<20	<0.01	<10	<10	10	<10	103
SUL 07-24		<20	0.16	<10	<10	155	<10	66
SUL 07-25		<20	0.05	<10	<10	314	<10	89
SUL 07-26		<20	0.03	<10	<10	241	<10	67
SUL 07-27		<20	0.09	<10	<10	80	<10	48
SUL 07-28		<20	0.08	<10	<10	208	<10	124
SUL 07-29		<20	0.04	<10	<10	100	<10	44
SUL 07-30		<20	0.10	<10	<10	65	<10	26
SUL 07-31		<20	0.09	<10	<10	90	<10	45
SUL 07-32		<20	0.04	<10	<10	25	<10	36
SUL 07-31A		<20	0.03	<10	<10	26	<10	32



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## CERTIFICATE OF ANALYSIS VA07049749

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
SUL07-40		0.84	0.628	1.9	0.59	1070	<10	130	<0.5	<2	0.13	1.8	9	12	16	1.70
SUL07-41		0.80	0.041	0.8	0.59	389	<10	200	<0.5	<2	0.11	0.6	8	14	22	1.29
SUL07-42		1.48	0.203	1.5	0.51	870	<10	140	<0.5	<2	0.12	0.8	11	6	23	1.49
SUL07-43		2.08	0.068	0.9	0.61	546	<10	190	<0.5	2	0.10	0.7	9	6	26	1.53
SUL07-44		1.82	0.310	1.3	0.50	847	<10	130	<0.5	2	0.10	0.6	13	4	17	1.71
SUL07-45		0.70	0.048	0.7	1.45	89	<10	70	<0.5	<2	0.19	<0.5	8	5	22	3.56
SUL07-46		0.92	0.036	0.8	1.65	35	<10	170	<0.5	<2	0.85	0.8	22	32	26	3.00
SUL07-47		0.58	<0.005	0.5	1.51	24	<10	340	<0.5	<2	0.16	1.0	18	33	48	2.25
SUL07-48		0.82	<0.005	3.6	1.29	41	<10	140	<0.5	<2	0.84	1.1	17	18	59	4.36
SUL07-49		0.54	<0.005	0.2	2.13	2	<10	170	<0.5	2	0.34	0.5	14	36	44	3.82
SUL07-50		1.22	<0.005	0.2	2.08	<2	<10	60	<0.5	<2	0.74	<0.5	36	21	817	3.60
SUL07-51		1.02	0.063	1.2	0.67	542	<10	180	<0.5	<2	0.13	2.3	11	6	24	1.47
SUL07-52		1.40	0.515	4.2	0.47	210	<10	140	<0.5	2	0.05	0.7	8	4	22	1.33
SUL07-53		1.46	0.014	0.5	0.56	195	<10	210	<0.5	<2	0.10	<0.5	7	5	17	1.49
SUL07-54		1.12	0.008	0.7	0.50	59	<10	180	<0.5	2	0.08	0.6	10	5	20	1.55
SUL07-55		1.32	<0.005	0.3	0.59	142	<10	200	<0.5	<2	0.09	0.5	8	6	38	1.40
SUL07-56		1.06	<0.005	<0.2	0.05	5	<10	20	<0.5	<2	0.01	<0.5	1	36	6	0.42
SUL07-57		0.82	0.016	0.9	0.63	91	<10	160	<0.5	2	0.05	<0.5	7	30	12	1.90



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## CERTIFICATE OF ANALYSIS VA07049749

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
SUL07-40		<10	<1	0.24	20	0.10	36	1	0.02	17	580	187	1.21	14	2	21
SUL07-41		<10	<1	0.31	10	0.09	32	1	0.02	15	490	23	1.03	3	1	19
SUL07-42		<10	<1	0.24	20	0.05	24	1	0.01	17	560	27	1.28	4	2	20
SUL07-43		<10	<1	0.30	10	0.08	32	1	0.02	17	480	23	1.25	4	1	24
SUL07-44		<10	<1	0.24	20	0.04	24	2	0.02	19	520	37	1.46	8	2	13
SUL07-45		<10	<1	0.35	10	0.80	161	1	0.02	2	940	20	2.39	<2	3	8
SUL07-46		<10	1	0.24	10	1.23	538	3	0.02	13	790	23	1.27	<2	3	26
SUL07-47		<10	1	0.24	10	1.10	223	3	0.02	42	760	40	0.24	<2	2	7
SUL07-48		<10	<1	0.21	10	1.27	462	2	0.03	16	550	196	2.39	<2	3	19
SUL07-49		10	<1	0.15	10	1.80	339	2	0.05	23	720	4	0.56	2	5	14
SUL07-50		<10	<1	0.05	<10	1.65	574	1	0.09	42	140	<2	0.10	<2	7	11
SUL07-51		<10	<1	0.28	20	0.09	44	2	0.02	13	600	39	1.03	4	2	9
SUL07-52		<10	<1	0.23	20	0.05	31	1	0.01	8	170	442	0.94	5	2	16
SUL07-53		<10	<1	0.29	10	0.05	29	1	0.02	8	480	21	1.12	2	1	23
SUL07-54		<10	<1	0.26	10	0.05	24	1	0.01	20	440	39	1.34	<2	1	13
SUL07-55		<10	<1	0.27	20	0.10	38	1	0.01	15	440	14	0.96	3	2	18
SUL07-56		<10	<1	0.02	<10	0.01	26	<1	<0.01	15	20	<2	0.06	<2	<1	2
SUL07-57		<10	<1	0.38	10	0.04	22	<1	0.02	23	280	114	1.72	4	1	9





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## CERTIFICATE OF ANALYSIS VA07049749

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
SUL07-40		<20	<0.01	<10	<10	9	<10	32
SUL07-41		<20	<0.01	<10	<10	8	<10	97
SUL07-42		<20	<0.01	<10	<10	7	<10	81
SUL07-43		<20	<0.01	<10	<10	8	<10	134
SUL07-44		<20	<0.01	<10	<10	7	<10	60
SUL07-45		<20	0.01	<10	<10	11	<10	102
SUL07-46		<20	0.01	<10	<10	17	<10	109
SUL07-47		<20	0.01	<10	<10	22	<10	118
SUL07-48		<20	0.01	<10	<10	32	<10	43
SUL07-49		<20	0.02	<10	<10	64	<10	94
SUL07-50		<20	0.14	<10	<10	83	<10	23
SUL07-51		<20	<0.01	<10	<10	10	<10	185
SUL07-52		<20	<0.01	<10	<10	7	<10	12
SUL07-53		<20	<0.01	<10	<10	7	<10	38
SUL07-54		<20	<0.01	<10	<10	7	<10	91
SUL07-55		<20	<0.01	<10	<10	9	<10	52
SUL07-56		<20	<0.01	<10	<10	1	<10	4
SUL07-57		<20	<0.01	<10	<10	8	<10	26



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## CERTIFICATE OF ANALYSIS VA07061779

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
STR01-01		0.90	0.005	0.5	1.25	141	<10	500	<0.5	<2	0.80	0.6	9	24	36	2.82
STR01-02		1.18	<0.005	0.2	1.94	19	<10	440	<0.5	<2	1.69	<0.5	11	31	33	3.02
STR01-03		1.20	<0.005	0.2	2.57	14	<10	280	<0.5	<2	1.44	<0.5	13	39	29	3.50
STR01-04		1.30	<0.005	0.2	2.72	6	<10	230	<0.5	<2	0.75	<0.5	13	42	35	3.86
STR01-05		1.32	<0.005	2.2	2.77	8	<10	270	<0.5	4	1.62	0.8	13	42	29	3.56
STR01-06		1.22	<0.005	0.4	2.39	6	<10	240	<0.5	<2	0.31	0.5	12	44	33	3.35
STR01-07		0.86	<0.005	0.4	2.46	196	<10	270	<0.5	<2	0.65	0.6	11	39	32	3.33
STR01-08		1.18	<0.005	0.4	2.87	21	<10	270	<0.5	<2	0.25	1.1	13	34	37	4.39
STR01-09		1.50	<0.005	0.5	2.72	37	<10	320	<0.5	<2	0.24	0.8	13	33	40	4.02
STR02-01		1.66	<0.005	0.6	2.70	7	<10	280	<0.5	<2	0.97	1.3	13	34	73	4.07
STR02-02		1.34	<0.005	0.5	2.85	113	<10	350	<0.5	<2	1.04	0.8	12	40	34	4.10
STR02-03		1.26	<0.005	0.5	1.70	63	<10	420	<0.5	2	0.71	0.7	9	33	38	2.70
STR02-04		1.56	<0.005	0.8	1.40	476	<10	420	<0.5	<2	1.41	0.8	9	23	43	2.74
STR02-05		1.40	<0.005	0.4	1.61	48	<10	420	<0.5	<2	0.83	<0.5	12	32	39	3.18
STR02-06		1.46	<0.005	0.6	1.19	186	<10	490	<0.5	<2	1.63	0.7	8	18	26	2.04
STR03-01		1.82	<0.005	0.6	1.40	62	<10	170	<0.5	<2	2.04	0.6	11	22	29	3.27
STR03-02		1.46	<0.005	0.3	0.85	279	10	180	<0.5	<2	2.46	<0.5	10	14	38	3.28
STR03-03		1.18	0.008	0.6	0.90	730	10	210	<0.5	<2	1.62	<0.5	14	24	31	3.04
STR03-04		1.66	0.030	0.7	1.26	933	10	260	<0.5	<2	1.73	0.5	15	17	62	4.54
STR03-05		1.50	0.023	0.6	1.55	948	<10	220	<0.5	<2	1.46	0.5	12	18	35	3.82
STR03-06		1.04	<0.005	0.3	1.36	117	10	200	<0.5	<2	2.95	<0.5	12	17	28	3.47
STR03-07		1.58	<0.005	0.4	0.92	255	10	210	<0.5	<2	0.54	<0.5	8	16	28	1.80
STR03-08		1.08	0.008	0.7	1.06	403	10	250	<0.5	<2	0.47	<0.5	8	18	29	2.06
STR03-09		1.52	<0.005	0.3	1.92	90	<10	280	<0.5	<2	1.12	0.5	11	22	25	3.49
STR04-01		1.70	<0.005	0.9	1.33	59	<10	360	<0.5	2	0.15	0.6	9	9	21	1.69
STR04-02		1.38	0.005	0.4	1.47	159	10	120	<0.5	2	0.13	0.8	12	8	21	1.86
STR04-03		1.62	0.287	1.1	1.07	1025	<10	160	<0.5	<2	0.16	1.0	13	8	23	1.94
STR04-04		1.58	0.677	1.4	0.81	122	10	210	<0.5	<2	0.07	0.9	5	7	4	1.03
STR04-05		1.32	0.304	1.5	0.89	1530	10	220	<0.5	<2	0.77	1.4	13	5	25	2.27
STR04-06		1.30	0.013	0.5	1.53	167	<10	330	<0.5	<2	1.53	<0.5	15	13	27	3.18
STR04-07		1.82	<0.005	0.5	2.39	40	<10	230	<0.5	<2	0.92	<0.5	16	27	34	3.84
STR04-08		1.20	0.017	0.9	1.08	82	10	280	<0.5	<2	1.97	<0.5	12	27	42	3.11
STR04-09		2.02	0.012	1.0	1.45	223	<10	290	<0.5	<2	1.09	2.0	10	33	82	3.00
STR04-10		2.20	<0.005	1.1	1.66	24	<10	90	<0.5	<2	1.94	1.4	14	48	72	3.44
STR04-11		1.96	<0.005	0.4	1.92	15	<10	540	<0.5	<2	1.28	0.7	12	50	41	3.40
STR04-12		1.68	<0.005	0.7	2.03	36	<10	430	<0.5	<2	1.05	0.8	12	65	53	3.03
STR04-13		1.70	<0.005	0.3	1.87	55	<10	540	<0.5	<2	1.51	0.6	12	51	42	3.10
STR04-14		1.20	0.005	0.5	1.50	41	<10	310	<0.5	<2	1.38	0.6	13	43	46	3.05
STR04-15		1.00	<0.005	0.4	1.70	47	<10	440	<0.5	2	0.73	0.6	11	40	39	2.64
STR04-16		1.16	<0.005	0.6	1.97	146	<10	470	<0.5	<2	1.09	0.8	11	46	44	3.06



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## CERTIFICATE OF ANALYSIS VA07061779

Sample Description	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
STR01-01	<10	<1	0.47	20	0.52	571	<1	0.06	30	750	8	0.18	2	5	25
STR01-02	10	1	0.41	10	1.12	543	1	0.04	29	750	10	0.44	<2	4	39
STR01-03	10	1	0.37	10	1.70	529	1	0.04	30	770	9	0.33	<2	5	38
STR01-04	10	<1	0.33	10	1.79	450	1	0.05	27	850	12	0.32	<2	6	19
STR01-05	10	1	0.37	20	1.85	599	2	0.05	29	800	99	0.30	<2	5	36
STR01-06	10	<1	0.32	10	1.61	335	1	0.04	24	720	33	0.40	<2	4	9
STR01-07	10	1	0.41	10	1.47	405	1	0.03	21	910	29	0.48	<2	4	18
STR01-08	10	<1	0.38	10	1.81	593	1	0.03	20	970	38	0.49	<2	5	9
STR01-09	10	1	0.39	10	1.55	401	<1	0.06	17	890	19	0.59	<2	6	10
STR02-01	10	1	0.30	10	1.69	615	1	0.05	39	990	20	0.64	<2	6	21
STR02-02	10	1	0.35	10	1.82	597	1	0.05	28	900	9	0.50	<2	6	24
STR02-03	<10	<1	0.39	10	1.05	365	2	0.03	28	600	18	0.64	2	3	15
STR02-04	<10	1	0.40	10	0.91	612	2	0.04	29	600	27	0.69	8	4	34
STR02-05	<10	1	0.38	20	0.97	686	2	0.02	41	700	18	0.66	3	4	24
STR02-06	<10	<1	0.53	20	0.71	539	1	0.04	20	620	12	0.56	<2	3	48
STR03-01	<10	<1	0.31	10	1.31	964	2	0.04	26	660	28	0.49	4	4	29
STR03-02	<10	1	0.39	10	0.98	717	2	0.04	30	560	9	1.36	11	4	43
STR03-03	<10	<1	0.43	10	0.98	747	2	0.04	42	810	9	0.57	5	5	32
STR03-04	<10	1	0.56	10	1.30	1090	1	0.04	23	910	31	1.21	10	6	40
STR03-05	<10	1	0.30	10	1.15	964	1	0.04	18	900	9	0.56	2	6	43
STR03-06	<10	<1	0.38	10	1.62	947	1	0.05	22	650	13	0.54	2	5	50
STR03-07	<10	<1	0.38	10	0.35	277	2	0.04	24	630	8	0.69	4	2	10
STR03-08	<10	<1	0.47	10	0.38	410	2	0.04	25	610	9	0.69	5	3	10
STR03-09	<10	1	0.32	10	1.20	817	1	0.05	16	810	9	0.47	4	5	22
STR04-01	<10	1	0.54	20	0.32	80	1	0.03	13	520	65	0.70	2	3	43
STR04-02	<10	<1	0.60	20	0.32	59	1	0.03	18	530	22	1.29	2	3	26
STR04-03	<10	<1	0.41	10	0.23	59	1	0.02	19	540	73	1.40	6	2	9
STR04-04	<10	<1	0.38	20	0.07	26	1	0.05	9	130	39	0.30	7	2	19
STR04-05	<10	<1	0.41	20	0.34	346	1	0.02	28	430	27	1.24	5	3	41
STR04-06	<10	1	0.43	10	1.18	593	1	0.05	21	610	9	0.80	<2	5	33
STR04-07	10	<1	0.43	10	1.94	452	1	0.03	22	640	11	1.18	<2	5	17
STR04-08	<10	<1	0.50	10	1.22	858	1	0.02	39	600	196	1.25	5	4	26
STR04-09	<10	<1	0.41	10	1.06	538	1	0.02	33	630	108	1.05	4	3	23
STR04-10	<10	1	0.51	10	1.51	763	2	0.03	50	590	178	1.30	5	4	52
STR04-11	<10	<1	0.33	10	1.64	633	1	0.04	38	620	46	0.70	2	5	38
STR04-12	<10	<1	0.50	10	1.43	463	2	0.04	54	640	38	0.80	4	4	33
STR04-13	<10	<1	0.38	10	1.57	656	2	0.03	40	740	21	0.49	3	4	37
STR04-14	<10	<1	0.35	10	1.00	866	2	0.03	41	840	29	0.76	2	4	38
STR04-15	<10	1	0.34	20	1.18	358	2	0.03	31	760	6	0.45	3	3	21
STR04-16	10	1	0.43	10	1.37	553	2	0.03	36	750	23	0.62	10	4	30



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## CERTIFICATE OF ANALYSIS VA07061779

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
STR01-01		<20	<0.01	<10	<10	26	<10	67
STR01-02		<20	0.01	<10	<10	30	<10	73
STR01-03		<20	0.01	<10	<10	55	<10	70
STR01-04		<20	0.01	<10	<10	58	<10	72
STR01-05		<20	0.01	<10	<10	57	<10	91
STR01-06		<20	0.01	<10	<10	50	<10	101
STR01-07		<20	0.01	10	<10	46	<10	115
STR01-08		<20	0.01	<10	<10	55	<10	167
STR01-09		<20	0.01	<10	<10	64	<10	126
STR02-01		<20	0.01	<10	<10	61	<10	191
STR02-02		<20	0.01	10	<10	60	<10	145
STR02-03		<20	0.01	<10	<10	26	<10	107
STR02-04		<20	0.01	<10	<10	24	<10	110
STR02-05		<20	0.01	<10	<10	29	<10	105
STR02-06		<20	0.01	<10	<10	15	<10	106
STR03-01		<20	<0.01	<10	<10	27	<10	95
STR03-02		<20	<0.01	<10	<10	16	<10	43
STR03-03		<20	<0.01	<10	<10	20	<10	80
STR03-04		<20	<0.01	<10	<10	32	<10	138
STR03-05		<20	<0.01	<10	<10	36	<10	118
STR03-06		<20	<0.01	<10	<10	28	<10	77
STR03-07		<20	<0.01	<10	<10	16	<10	40
STR03-08		<20	<0.01	<10	<10	21	<10	44
STR03-09		<20	0.01	<10	<10	43	<10	114
STR04-01		<20	<0.01	<10	<10	17	<10	88
STR04-02		<20	<0.01	<10	<10	18	<10	141
STR04-03		<20	<0.01	<10	<10	14	<10	119
STR04-04		<20	<0.01	<10	<10	11	<10	24
STR04-05		<20	<0.01	<10	<10	12	<10	143
STR04-06		<20	<0.01	<10	<10	29	<10	110
STR04-07		<20	0.01	<10	<10	47	<10	85
STR04-08		<20	<0.01	<10	<10	21	<10	168
STR04-09		<20	0.01	<10	<10	21	<10	242
STR04-10		<20	0.01	<10	<10	27	<10	200
STR04-11		<20	0.01	<10	<10	33	<10	144
STR04-12		<20	0.01	<10	<10	31	<10	149
STR04-13		<20	0.01	<10	<10	37	<10	104
STR04-14		<20	0.01	<10	<10	36	<10	87
STR04-15		<20	0.01	<10	<10	31	<10	96
STR04-16		<20	0.01	<10	<10	37	<10	124



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## CERTIFICATE OF ANALYSIS VA07061779

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
STR04-17		1.38	0.053	85.4	0.86	177	<10	400	<0.5	<2	1.68	3.4	7	14	327	1.89
STR05-01		1.04	0.005	1.1	2.10	118	<10	320	<0.5	<2	0.75	0.7	12	47	51	3.21
STR05-02		0.94	<0.005	1.4	2.00	130	<10	330	<0.5	2	1.37	<0.5	12	55	42	2.96
STR05-03		0.86	<0.005	0.7	2.29	32	<10	280	<0.5	<2	0.84	0.9	12	54	58	3.42
STR05-04		1.64	<0.005	0.7	1.65	11	<10	340	<0.5	<2	1.97	<0.5	7	9	15	2.48
STR05-05		1.26	<0.005	0.7	1.57	15	<10	230	<0.5	<2	2.25	<0.5	7	12	31	2.56
STR06-01		1.62	<0.005	0.4	1.99	17	<10	520	<0.5	<2	1.09	0.7	11	44	39	3.08
STR06-02		2.18	0.363	1.7	1.15	2370	10	370	<0.5	<2	2.20	0.7	14	29	59	3.29
STR06-03		2.04	0.050	1.0	1.66	724	10	440	<0.5	2	1.19	0.7	13	39	58	3.39
STR06-04		2.10	0.006	0.5	2.16	75	<10	520	<0.5	<2	0.26	0.5	13	50	48	3.19
STR06-05		2.36	0.007	1.6	1.40	331	<10	320	<0.5	<2	0.79	1.1	13	32	62	2.97
STR07-01		1.56	0.944	5.7	0.95	4430	10	280	<0.5	<2	1.97	1.1	9	17	49	2.47
STR07-02		1.30	0.235	2.9	0.68	2360	10	300	<0.5	<2	2.12	1.0	13	20	43	2.63
STR07-03		1.50	0.366	3.5	0.81	2830	10	200	<0.5	<2	1.83	0.7	13	19	35	2.63



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## CERTIFICATE OF ANALYSIS VA07061779

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
STR04-17		<10	<1	0.44	10	0.82	444	1	0.04	21	540	1950	0.62	400	2	56
STR05-01		<10	1	0.43	10	1.54	424	2	0.03	34	700	51	0.87	8	4	24
STR05-02		10	1	0.30	20	1.48	593	2	0.05	36	830	28	0.47	6	4	43
STR05-03		10	<1	0.57	20	1.55	421	2	0.03	39	600	61	1.11	3	4	28
STR05-04		<10	<1	0.47	20	1.15	677	<1	0.03	11	490	21	1.10	<2	2	60
STR05-05		<10	<1	0.52	20	0.83	618	1	0.04	10	600	21	1.28	<2	2	62
STR06-01		<10	<1	0.38	20	1.48	466	2	0.02	37	760	26	0.68	<2	3	34
STR06-02		<10	<1	0.48	10	1.20	1120	4	0.03	55	770	42	0.96	20	4	83
STR06-03		<10	<1	0.43	10	1.45	743	2	0.03	41	890	40	0.72	8	4	44
STR06-04		10	1	0.46	10	1.40	341	2	0.03	41	790	16	0.65	4	4	9
STR06-05		<10	<1	0.41	10	1.00	431	3	0.02	41	770	67	1.02	10	3	23
STR07-01		<10	<1	0.46	10	0.79	543	2	0.03	30	610	42	1.18	29	4	139
STR07-02		<10	<1	0.37	10	0.85	715	2	0.03	65	600	36	1.04	26	4	109
STR07-03		<10	1	0.44	10	0.73	559	2	0.03	61	580	39	1.39	24	4	101



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## CERTIFICATE OF ANALYSIS VA07061779

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
STR04-17		<20	<0.01	<10	<10	11	<10	243
STR05-01		<20	0.01	<10	<10	36	<10	153
STR05-02		<20	0.01	<10	<10	43	<10	105
STR05-03		<20	0.01	<10	<10	33	<10	199
STR05-04		<20	0.01	<10	<10	17	<10	78
STR05-05		<20	0.01	<10	<10	22	<10	68
STR06-01		<20	0.01	<10	<10	32	<10	139
STR06-02		<20	<0.01	<10	<10	25	<10	139
STR06-03		<20	0.01	<10	<10	32	<10	146
STR06-04		<20	0.01	<10	<10	38	<10	129
STR06-05		<20	<0.01	<10	<10	23	<10	163
STR07-01		<20	<0.01	<10	<10	19	<10	121
STR07-02		<20	<0.01	<10	<10	13	<10	122
STR07-03		<20	<0.01	<10	<10	16	<10	82



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## CERTIFICATE OF ANALYSIS VA07077092

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
STR08-01		1.70	0.016	0.9	0.50	75	<10	110	<0.5	<2	0.11	1.8	8	3	75	2.24
STR08-02		1.62	<0.005	0.4	2.09	22	<10	250	<0.5	<2	0.17	0.5	15	19	103	3.48
STR08-03		1.70	<0.005	0.4	1.52	85	<10	210	<0.5	<2	0.19	<0.5	18	16	76	3.09
STR08-04		1.38	0.123	1.0	0.82	12	<10	180	<0.5	<2	0.19	<0.5	8	11	46	1.15
STR08-05		1.56	0.058	2.5	0.52	23	<10	200	<0.5	<2	0.22	0.5	7	13	83	0.69
STR09-01		1.58	0.009	1.0	1.37	45	<10	140	<0.5	<2	0.24	0.6	15	13	67	3.37
STR09-02		2.78	<0.005	0.4	0.82	47	<10	140	<0.5	<2	0.09	<0.5	5	6	25	2.17
STR09-03		2.34	0.028	1.2	0.50	32	<10	130	<0.5	2	0.06	0.7	4	4	29	1.26
STR09-04		2.64	0.073	4.6	0.55	605	<10	130	<0.5	<2	0.14	9.2	10	4	38	1.97
STR09-05		2.48	0.019	0.9	0.74	114	<10	110	<0.5	<2	0.30	3.4	11	5	56	2.97
STR09-06		1.60	0.020	0.6	0.81	110	<10	130	<0.5	<2	0.10	0.7	8	11	22	2.32
STR10-01		2.40	<0.005	1.2	0.45	366	<10	230	<0.5	<2	1.71	0.6	9	11	31	2.40
STR10-02		2.32	<0.005	0.5	1.02	110	<10	280	<0.5	<2	1.33	0.5	11	26	36	3.65
STR10-03		2.42	0.158	1.4	0.52	1920	<10	210	<0.5	<2	1.91	0.8	10	13	52	2.98
STR10-04		1.80	0.335	0.8	1.34	2650	<10	160	<0.5	<2	1.99	0.6	15	24	33	4.35
STR10-05		1.94	<0.005	0.3	1.78	90	<10	130	<0.5	<2	0.26	0.7	11	33	36	3.24
STR10-06		1.74	0.321	0.8	1.13	2790	<10	150	<0.5	<2	2.30	<0.5	13	22	33	4.17
STR11-01		2.20	<0.005	0.2	1.76	38	<10	310	<0.5	<2	1.01	0.6	12	44	50	3.24
STR11-02		1.18	0.012	0.4	1.67	83	<10	340	<0.5	<2	1.55	1.1	11	42	48	3.76
STR11-03		1.42	0.015	0.3	1.33	166	<10	270	<0.5	<2	1.47	0.7	13	39	53	3.68
STR11-04		2.32	0.144	1.0	0.84	843	<10	250	<0.5	<2	1.88	0.7	15	26	62	3.39
STR11-05		2.04	0.245	1.5	0.67	2510	<10	240	<0.5	<2	1.50	0.6	9	15	35	2.52
STR11-06		1.68	0.018	1.3	0.53	199	<10	240	<0.5	<2	0.88	<0.5	5	7	21	1.52
STR11-07		1.52	0.031	0.8	0.55	306	<10	190	<0.5	<2	0.52	<0.5	7	8	15	1.90
STR11-08		1.24	<0.005	1.5	0.61	204	<10	230	<0.5	<2	1.21	0.7	14	19	88	2.32
STR11-09		1.52	0.029	0.8	0.63	302	<10	280	<0.5	<2	0.51	<0.5	7	7	14	1.94
DMR07-01		1.02	<0.005	0.8	3.74	<2	<10	110	<0.5	<2	3.07	<0.5	24	57	529	5.42
DMR07-02		0.80	<0.005	0.7	4.21	<2	<10	90	<0.5	<2	0.76	<0.5	25	100	630	6.87
DMR07-03		1.48	0.021	2.4	3.46	<2	<10	80	<0.5	<2	0.39	<0.5	14	45	848	7.05
DMR07-04		0.60	0.013	1.5	2.52	<2	<10	40	<0.5	<2	1.22	<0.5	25	13	1130	5.01
DMR07-05		1.56	0.007	2.2	3.84	<2	<10	90	<0.5	<2	0.53	<0.5	41	30	1600	7.13
DMR07-06		1.16	0.006	1.3	2.52	<2	<10	30	<0.5	<2	0.99	<0.5	26	45	1220	6.12
DMR07-07		1.34	<0.005	0.8	3.47	<2	<10	70	<0.5	<2	0.43	<0.5	12	49	296	6.11
DMR07-08		0.62	<0.005	0.5	2.68	<2	<10	50	<0.5	<2	0.85	<0.5	25	10	765	5.69
DMR07-09		1.18	<0.005	0.2	2.26	<2	<10	30	<0.5	<2	1.13	<0.5	19	45	371	3.66
DMR07-10		0.38	<0.005	0.2	2.28	<2	<10	70	<0.5	<2	0.79	<0.5	27	23	655	3.78





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TO: KREFI, BERNIE  
#1 LOCUST PLACE  
WHITEHORSE YT Y1A 5C4

## CERTIFICATE OF ANALYSIS VA07077092

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	0.01	2	1	1	
STR08-01		<10	<1	0.18	10	0.20	40	1	0.02	14	400	99	1.82	3	1	9
STR08-02		10	<1	0.24	10	1.59	190	1	0.02	29	660	21	0.89	<2	4	7
STR08-03		<10	<1	0.20	10	1.03	223	2	0.02	41	710	9	0.82	5	4	7
STR08-04		<10	<1	0.21	20	0.32	58	<1	0.02	24	700	19	0.05	<2	3	8
STR08-05		<10	<1	0.23	10	0.09	54	1	0.02	26	870	8	0.08	3	3	10
STR09-01		<10	<1	0.19	20	1.15	240	1	0.02	30	690	73	1.46	6	2	8
STR09-02		<10	<1	0.18	20	0.49	117	1	0.03	10	440	33	0.55	2	1	22
STR09-03		<10	<1	0.22	20	0.15	46	1	0.02	8	340	39	0.47	8	1	21
STR09-04		<10	<1	0.26	10	0.06	35	1	0.02	18	500	53	1.64	11	1	10
STR09-05		<10	<1	0.27	10	0.30	148	1	0.03	19	620	173	2.22	3	2	13
STR09-06		<10	<1	0.26	10	0.33	72	2	0.03	18	470	47	1.20	6	2	49
STR10-01		<10	<1	0.27	10	0.68	493	2	0.02	26	620	11	0.88	5	3	51
STR10-02		<10	<1	0.34	10	1.58	761	2	0.03	34	930	15	0.52	3	4	35
STR10-03		<10	<1	0.25	10	0.98	759	2	0.02	39	840	44	0.91	7	3	87
STR10-04		<10	<1	0.25	10	1.38	944	1	0.04	33	840	13	0.94	6	5	85
STR10-05		<10	<1	0.19	10	1.28	373	2	0.02	30	750	25	0.46	3	3	7
STR10-06		<10	<1	0.25	10	1.36	1030	2	0.04	30	850	13	0.81	7	5	97
STR11-01		10	<1	0.22	20	1.44	464	2	0.02	46	800	21	0.62	<2	3	34
STR11-02		10	<1	0.29	20	1.51	867	2	0.03	47	890	44	0.83	4	4	49
STR11-03		<10	<1	0.28	20	1.37	973	2	0.03	50	850	27	0.63	7	4	44
STR11-04		<10	<1	0.27	10	1.15	968	5	0.02	57	800	37	0.81	8	4	54
STR11-05		<10	<1	0.27	10	0.74	534	2	0.02	30	700	18	0.91	9	3	86
STR11-06		<10	<1	0.25	20	0.33	253	1	0.02	18	640	45	0.61	10	2	35
STR11-07		<10	<1	0.29	10	0.22	157	2	0.02	21	570	14	1.11	8	1	19
STR11-08		<10	<1	0.26	10	0.62	411	2	0.01	43	680	92	0.85	13	3	34
STR11-09		<10	<1	0.30	10	0.22	154	3	<0.01	18	610	11	1.09	7	1	18
DMR07-01		10	1	0.35	10	3.45	1315	4	0.01	35	220	10	0.72	<2	13	41
DMR07-02		10	<1	0.21	<10	3.85	955	1	0.01	35	160	5	0.51	<2	15	13
DMR07-03		<10	1	0.07	<10	2.89	763	1	0.02	16	150	5	0.38	<2	10	17
DMR07-04		10	<1	0.07	<10	1.92	602	1	0.08	19	200	3	0.72	<2	10	14
DMR07-05		<10	<1	0.05	<10	3.21	952	2	<0.01	26	120	6	1.40	<2	7	16
DMR07-06		10	<1	0.02	<10	2.44	686	1	0.04	24	160	4	1.51	<2	7	14
DMR07-07		10	<1	0.02	<10	3.18	911	1	0.03	22	190	10	0.20	2	10	13
DMR07-08		<10	1	0.05	<10	2.06	756	4	0.07	17	240	5	1.34	<2	8	17
DMR07-09		10	<1	0.03	<10	2.05	559	1	0.08	34	170	4	0.22	<2	8	12
DMR07-10		10	<1	0.06	<10	1.90	501	1	0.08	40	190	2	0.04	<2	8	10



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Finalized Date: 5-AUG-2007

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## CERTIFICATE OF ANALYSIS VA07077092

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
STR08-01		<20	<0.01	<10	<10	6	<10	178
STR08-02		<20	<0.01	<10	<10	35	<10	142
STR08-03		<20	<0.01	<10	<10	25	<10	137
STR08-04		<20	<0.01	<10	<10	12	<10	68
STR08-05		<20	<0.01	<10	<10	14	<10	57
STR09-01		<20	<0.01	<10	<10	21	<10	133
STR09-02		<20	<0.01	<10	<10	10	<10	91
STR09-03		<20	<0.01	<10	<10	7	<10	74
STR09-04		<20	<0.01	<10	<10	7	<10	223
STR09-05		<20	0.01	<10	<10	16	<10	199
STR09-06		<20	<0.01	<10	<10	12	<10	88
STR10-01		<20	<0.01	<10	<10	8	<10	113
STR10-02		<20	<0.01	<10	<10	16	<10	142
STR10-03		<20	<0.01	<10	<10	10	<10	126
STR10-04		<20	<0.01	<10	<10	29	<10	115
STR10-05		<20	<0.01	<10	<10	29	<10	115
STR10-06		<20	<0.01	<10	<10	24	<10	105
STR11-01		<20	0.01	<10	<10	28	<10	123
STR11-02		<20	<0.01	<10	<10	25	<10	152
STR11-03		<20	<0.01	<10	<10	23	<10	153
STR11-04		<20	<0.01	<10	<10	17	<10	113
STR11-05		<20	<0.01	<10	<10	11	<10	80
STR11-06		<20	<0.01	<10	<10	5	<10	54
STR11-07		<20	<0.01	<10	<10	5	<10	39
STR11-08		<20	<0.01	<10	<10	10	<10	160
STR11-09		<20	<0.01	<10	<10	5	<10	34
DMR07-01		<20	0.06	<10	<10	134	<10	157
DMR07-02		<20	0.08	<10	<10	153	<10	93
DMR07-03		<20	0.19	<10	<10	123	<10	37
DMR07-04		<20	0.13	<10	<10	123	<10	47
DMR07-05		<20	0.08	<10	<10	85	<10	38
DMR07-06		<20	0.13	<10	<10	103	<10	81
DMR07-07		<20	0.20	<10	<10	129	<10	95
DMR07-08		<20	0.17	<10	<10	99	<10	20
DMR07-09		<20	0.15	<10	<10	96	<10	27
DMR07-10		<20	0.14	<10	<10	91	<10	21



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## CERTIFICATE OF ANALYSIS VA07083368

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
GRR07-06		1.86	0.005	0.2	1.80	<2	<10	70	<0.5	<2	0.44	<0.5	8	11	3	3.10
GRR07-07		1.18	0.010	<0.2	1.90	3	<10	90	<0.5	<2	0.48	<0.5	6	7	3	3.22
GRR07-08		0.78	0.011	<0.2	3.46	<2	<10	50	<0.5	2	0.28	<0.5	22	15	3	7.54
GRR07-09		0.46	0.308	<0.2	1.47	34	<10	120	<0.5	<2	0.17	<0.5	15	16	8	4.84
GRR07-10		0.18	5.64	0.4	0.19	31	<10	40	<0.5	<2	0.02	<0.5	4	12	5	1.80
STR12-01		1.12	0.008	0.5	2.14	5	<10	270	<0.5	<2	4.48	<0.5	12	36	37	3.10
STR12-02		1.16	0.015	0.6	2.03	<2	<10	250	<0.5	2	2.96	<0.5	17	33	42	3.29
STR12-03		1.18	<0.005	0.5	2.00	11	<10	280	<0.5	<2	2.74	<0.5	15	40	35	3.26
STR12-04		2.10	<0.005	0.3	2.20	17	<10	270	<0.5	<2	2.48	<0.5	15	38	35	3.30
STR12-05		1.68	<0.005	0.3	1.83	6	<10	290	<0.5	<2	1.52	<0.5	14	59	36	2.95
STR12-06		1.80	<0.005	0.3	1.61	23	<10	260	<0.5	<2	0.89	<0.5	11	64	35	3.19
STR12-07		0.82	<0.005	0.7	2.00	113	<10	320	<0.5	<2	1.26	<0.5	20	102	74	4.23
STR12-08		1.72	<0.005	0.4	1.38	75	<10	280	<0.5	<2	0.65	<0.5	10	37	36	3.24
STR12-09		2.38	<0.005	0.5	0.65	206	<10	340	<0.5	<2	0.23	<0.5	9	34	39	2.94
STR12-10		1.30	<0.005	0.4	0.64	78	<10	310	<0.5	<2	0.22	<0.5	9	15	42	2.73
STR12-11		1.24	<0.005	0.3	1.80	17	<10	270	<0.5	<2	0.26	<0.5	11	61	33	3.54
STR12-12		1.16	<0.005	0.2	1.77	14	<10	310	<0.5	<2	1.41	<0.5	12	37	38	3.13
STR12-13		1.24	<0.005	0.3	1.87	20	<10	310	<0.5	<2	0.22	<0.5	9	56	30	4.08
STR12-14		1.60	<0.005	0.2	1.69	22	<10	310	<0.5	<2	0.22	<0.5	10	47	36	3.33
STR12-15		1.70	<0.005	0.2	1.74	16	<10	350	<0.5	2	0.26	<0.5	10	52	36	3.01
STR12-16		1.68	<0.005	0.3	1.71	21	<10	280	<0.5	<2	0.23	<0.5	9	46	35	3.06
STR12-17		1.28	<0.005	<0.2	2.08	17	<10	190	<0.5	2	0.21	<0.5	11	40	38	3.58
STR12-18		1.06	<0.005	0.4	1.82	15	<10	230	<0.5	<2	0.99	0.8	12	25	42	2.94
STR12-19		1.08	<0.005	0.2	2.02	27	<10	200	<0.5	<2	1.22	<0.5	12	30	34	3.27
STR12-20		0.98	<0.005	0.3	2.17	7	<10	190	<0.5	<2	1.84	<0.5	10	21	29	3.13
STR12-21		1.38	<0.005	1.7	1.77	75	<10	160	<0.5	<2	4.57	7.6	15	23	85	4.11
STR12-22		1.02	<0.005	0.5	2.03	15	<10	210	<0.5	<2	0.90	1.3	19	20	60	3.60
STR12-23		1.26	<0.005	0.7	1.57	48	<10	220	<0.5	<2	0.25	<0.5	10	27	34	3.28
STR12-24		1.30	<0.005	0.3	2.32	28	<10	140	<0.5	<2	1.98	0.5	14	21	47	3.65
STR12-25		1.74	<0.005	0.4	2.14	17	<10	210	<0.5	<2	3.01	0.5	10	33	34	3.26
STR12-26		2.12	<0.005	0.4	1.88	41	<10	240	<0.5	<2	2.01	<0.5	14	19	53	3.31
STR12-27		1.98	<0.005	0.8	1.92	6	<10	280	<0.5	<2	2.27	<0.5	13	28	42	3.17
STR12-28		0.96	<0.005	0.3	2.08	14	<10	220	<0.5	<2	2.44	<0.5	12	22	35	3.36
STR12-29		2.08	<0.005	0.4	2.19	20	<10	250	<0.5	<2	0.53	<0.5	9	41	30	3.72
STR12-30		1.68	<0.005	0.3	1.85	3	<10	270	<0.5	<2	2.10	<0.5	11	24	29	2.68
STR12-31		1.36	<0.005	0.3	1.92	2	<10	400	<0.5	<2	2.11	<0.5	10	30	28	2.61
STR13-01		1.20	<0.005	0.6	1.78	3	<10	370	<0.5	2	0.19	<0.5	12	45	37	2.92
STR13-02		1.02	<0.005	0.2	1.79	4	<10	420	<0.5	<2	0.21	<0.5	12	49	32	3.05
STR13-03		1.58	0.007	0.4	1.77	5	<10	270	<0.5	<2	0.21	<0.5	11	39	28	2.87
STR13-04		0.92	0.007	0.6	1.68	7	<10	330	<0.5	2	0.40	0.6	11	49	37	2.67



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## CERTIFICATE OF ANALYSIS VA07083368

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte Units LOR	Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
GRR07-06		10	<1	0.05	<10	0.88	468	1	0.09	<1	870	2	<0.01	2	4	22
GRR07-07		10	<1	0.06	10	0.84	456	<1	0.08	1	920	<2	<0.01	<2	5	26
GRR07-08		10	<1	0.06	<10	1.83	1325	<1	0.07	21	580	2	<0.01	4	18	22
GRR07-09		<10	<1	0.18	10	0.48	757	1	0.06	5	710	2	0.02	2	7	7
GRR07-10		<10	<1	0.04	<10	0.04	368	1	0.02	2	70	2	0.01	2	2	4
STR12-01		<10	1	0.31	10	1.65	866	1	0.02	31	800	14	0.51	2	4	144
STR12-02		<10	<1	0.28	10	1.66	642	1	0.02	36	910	14	0.49	2	5	93
STR12-03		<10	<1	0.31	10	1.58	641	1	0.02	30	830	12	0.53	2	5	89
STR12-04		<10	<1	0.28	10	1.74	609	1	0.03	30	760	32	0.29	<2	4	92
STR12-05		<10	1	0.29	20	1.45	551	2	0.03	41	800	6	0.27	<2	5	66
STR12-06		<10	<1	0.24	20	1.25	464	1	0.03	47	760	8	0.04	3	5	38
STR12-07		10	<1	0.28	10	1.65	617	<1	0.03	79	1040	8	0.44	<2	8	57
STR12-08		<10	<1	0.23	10	0.98	404	1	0.03	33	780	7	0.16	4	6	31
STR12-09		<10	<1	0.30	20	0.10	171	2	0.04	36	820	8	0.06	4	6	12
STR12-10		<10	<1	0.26	20	0.09	118	1	0.04	32	860	10	0.02	4	4	11
STR12-11		10	<1	0.23	20	1.36	431	<1	0.03	36	810	9	<0.01	2	5	13
STR12-12		<10	<1	0.25	10	1.34	468	1	0.03	35	920	14	0.17	3	4	86
STR12-13		10	<1	0.24	10	1.39	414	1	0.03	33	800	11	0.05	4	6	11
STR12-14		10	<1	0.22	20	1.21	393	2	0.03	34	810	9	<0.01	3	5	11
STR12-15		<10	<1	0.27	20	1.26	445	1	0.02	31	780	40	0.02	2	5	13
STR12-16		10	<1	0.20	20	1.30	466	1	0.03	29	820	20	0.02	3	6	11
STR12-17		<10	<1	0.23	20	1.31	469	<1	0.02	28	830	16	<0.01	2	3	8
STR12-18		<10	<1	0.25	10	1.19	479	1	0.02	24	710	26	0.17	4	3	35
STR12-19		<10	<1	0.26	10	1.24	555	1	0.02	23	740	9	0.18	3	3	40
STR12-20		<10	<1	0.22	10	1.43	641	1	0.02	22	730	8	0.20	3	3	52
STR12-21		<10	<1	0.22	10	1.09	1190	2	0.02	26	590	87	2.11	7	3	137
STR12-22		<10	<1	0.25	20	1.24	455	2	0.02	33	860	12	0.47	4	3	28
STR12-23		<10	<1	0.27	10	0.83	288	1	0.02	23	790	11	0.03	3	3	11
STR12-24		<10	<1	0.22	10	1.37	613	2	0.01	28	800	23	0.53	10	4	69
STR12-25		<10	<1	0.26	10	1.39	889	1	0.02	25	720	12	0.48	6	3	90
STR12-26		<10	<1	0.29	10	1.12	653	1	0.02	28	740	10	0.90	4	3	59
STR12-27		<10	<1	0.32	10	1.15	675	1	0.02	27	720	38	0.73	3	3	74
STR12-28		<10	<1	0.25	10	1.33	757	1	0.03	25	790	10	0.54	<2	4	81
STR12-29		10	<1	0.23	10	1.42	432	<1	0.04	20	760	5	0.06	2	4	19
STR12-30		<10	<1	0.26	10	1.20	624	1	0.03	27	690	20	0.28	5	3	74
STR12-31		<10	<1	0.36	10	1.14	605	<1	0.03	23	710	13	0.28	3	3	79
STR13-01		<10	<1	0.24	10	1.41	307	2	0.04	33	720	8	0.90	4	4	7
STR13-02		10	<1	0.22	10	1.40	327	1	0.03	31	800	6	0.83	2	4	9
STR13-03		10	<1	0.19	10	1.60	308	1	0.02	29	890	8	0.89	<2	4	8
STR13-04		<10	<1	0.23	10	1.44	304	1	0.03	28	660	10	0.84	3	3	16



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## CERTIFICATE OF ANALYSIS VA07083368

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
GRR07-06		<20	0.01	<10	<10	8	<10	28
GRR07-07		<20	0.01	<10	<10	8	<10	27
GRR07-08		<20	0.01	<10	<10	112	<10	57
GRR07-09		<20	<0.01	<10	<10	27	<10	39
GRR07-10		<20	<0.01	<10	<10	6	<10	11
STR12-01		<20	0.02	<10	<10	32	<10	82
STR12-02		<20	0.05	<10	<10	41	<10	79
STR12-03		<20	0.04	<10	<10	39	<10	75
STR12-04		<20	0.02	<10	<10	41	<10	91
STR12-05		<20	0.09	<10	<10	51	<10	88
STR12-06		<20	0.04	<10	<10	44	<10	80
STR12-07		<20	0.02	<10	<10	59	<10	116
STR12-08		<20	0.01	<10	<10	36	<10	85
STR12-09		<20	<0.01	<10	<10	16	<10	81
STR12-10		<20	<0.01	<10	<10	15	<10	88
STR12-11		<20	0.03	<10	<10	49	<10	89
STR12-12		<20	0.02	<10	<10	40	<10	82
STR12-13		<20	0.02	<10	<10	45	<10	87
STR12-14		<20	0.01	<10	<10	45	<10	92
STR12-15		<20	0.01	<10	<10	37	<10	112
STR12-16		<20	0.01	<10	<10	49	<10	94
STR12-17		<20	0.01	<10	<10	37	<10	97
STR12-18		<20	0.01	<10	<10	28	<10	88
STR12-19		<20	0.01	<10	<10	34	<10	83
STR12-20		<20	0.01	<10	<10	33	<10	110
STR12-21		<20	<0.01	<10	<10	25	<10	245
STR12-22		<20	0.01	<10	<10	31	<10	205
STR12-23		<20	<0.01	<10	<10	22	<10	94
STR12-24		<20	<0.01	<10	<10	34	<10	118
STR12-25		<20	<0.01	<10	<10	29	<10	128
STR12-26		<20	0.01	<10	<10	28	<10	78
STR12-27		<20	0.01	<10	<10	26	<10	70
STR12-28		<20	0.01	<10	<10	35	<10	90
STR12-29		<20	0.01	<10	<10	39	<10	95
STR12-30		<20	0.01	<10	<10	25	<10	77
STR12-31		<20	0.01	<10	<10	24	<10	71
STR13-01		<20	0.01	<10	<10	39	<10	105
STR13-02		<20	0.01	<10	<10	34	<10	91
STR13-03		<20	0.01	<10	<10	33	<10	91
STR13-04		<20	0.01	<10	<10	31	<10	89



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## CERTIFICATE OF ANALYSIS VA07083368

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
STR13-05		1.04	0.177	1.3	1.22	314	<10	240	<0.5	<2	0.21	2.2	14	26	35	2.78
STR13-06		0.62	0.018	0.4	0.93	71	10	230	<0.5	<2	0.23	1.8	13	34	35	2.33
STR14-01		0.82	<0.005	1.1	1.83	62	<10	290	<0.5	<2	6.05	0.6	25	78	87	3.92
STR14-02		1.02	0.028	0.5	0.17	14	<10	340	<0.5	<2	4.35	2.0	3	28	4	1.62
STR14-03		0.48	0.525	0.7	0.39	40	<10	210	<0.5	<2	2.90	<0.5	11	11	26	2.99
STR14-04		1.22	<0.005	0.2	0.22	20	<10	1620	<0.5	<2	4.47	<0.5	1	27	7	1.65
STR14-05		0.70	0.013	<0.2	0.46	6	<10	290	<0.5	<2	1.00	<0.5	1	7	6	1.23
STR14-06		1.08	0.058	<0.2	0.41	26	<10	510	<0.5	<2	1.54	0.7	1	23	3	0.88



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## CERTIFICATE OF ANALYSIS VA07083368

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
STR13-05		<10	<1	0.24	10	0.90	188	3	0.02	30	750	9	1.18	11	4	8
STR13-06		<10	<1	0.27	10	0.44	92	2	0.02	19	850	19	0.84	7	4	9
STR14-01		<10	<1	0.30	10	1.18	1260	1	0.02	325	780	11	0.95	3	4	227
STR14-02		<10	<1	0.04	<10	0.47	689	<1	0.05	9	190	5	0.73	2	4	200
STR14-03		<10	<1	0.20	10	0.88	683	1	0.06	20	630	10	1.70	3	9	233
STR14-04		<10	<1	0.02	<10	1.00	1165	2	0.01	4	30	<2	0.17	2	1	140
STR14-05		<10	<1	0.18	30	0.17	302	<1	0.07	3	190	7	0.24	2	3	54
STR14-06		<10	<1	0.21	20	0.05	536	<1	0.05	1	170	10	0.06	<2	3	49



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## CERTIFICATE OF ANALYSIS VA07083368

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
STR13-05		<20	<0.01	<10	<10	23	<10	111
STR13-06		<20	<0.01	<10	<10	17	<10	101
STR14-01		<20	0.01	<10	<10	26	<10	120
STR14-02		<20	<0.01	<10	<10	4	<10	459
STR14-03		<20	<0.01	<10	<10	12	<10	59
STR14-04		<20	<0.01	<10	<10	3	<10	6
STR14-05		<20	0.01	<10	<10	4	<10	38
STR14-06		<20	<0.01	<10	<10	3	<10	25