

**ASSESSMENT REPORT
MAPPING, SOIL & ROCK SAMPLING
ON THE
SWEDE AND SAM CLAIMS
SONORA GULCH PROPERTY**

**Whitehorse Mining District
October 3-5, 1998**

Location: 1. 110 Km NW of Carmacks
2. NTS 105 J-9 & 105 I-12
3. Latitude 62° 39' N
Longitude 138° 05' W

Claims: Swede 1-6 (YA03779-YA03784)
Sam 1-18 (YA03869-YA03886)
Sam 20-35 (YA03888-YA03903)
Sam 37-86 (YA03905-YA03954)
Sam 87-98 (YA08275-YA08286)
Sam 117-118 (YC08341-YC0834)

For: **SELWYN MINERALS INC.**
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April 6, 1999

... has been examined by
... Geological Evaluation Unit
... Section 53 (4) Yukon Quartz
... Act and is allowed as
... exploration work in the amount

9800.00

M. Burke
for Regional Manager, Exploration and
Geological Services for Commissioner
Yukon Territory.

SUMMARY

The Sonora Gulch Property is located in the Dawson Range in the southern Yukon. The property was optioned from Mr. Jan Martensson and Alan McDiarmid by Selwyn Minerals Inc., in early October 1997. In early October 1998, Aurum Geological Consultants Inc. collected rock and soil samples and re-mapped a number of trenches on the property. A total of seven rock samples and 15 soil samples were collected from old trenches located on the Swede 6 (YA03784) and Sam 23 (YA03891) claims..

The focus of the work was to re-sample trenches excavated in 1984 to check high grade samples and obtain 31 element geochemistry as well as analyses of tellurium.

The property has seen extensive surface mapping, geochemistry, geophysics, trenching and diamond drilling between 1975 to 1984 mainly by Anglo American Corporation of Canada, Hudson Bay Exploration and Development Company Limited and Hayes Resources Inc. all under an option agreement with J. Martensson and A. McDiarmid, who had conducted placer operations on Sonora Gulch in 1975 and were recovering angular rough surfaced gold nuggets sometimes associated with tetradymite, a bismuth telluride.

There has been no physical work conducted on the property since 1985 and during the interim the claims were maintained by cash in lieu payments made by Hudson Bay Exploration and Development Company Limited. The claims were returned to the original optionor's (Martensson and McDiarmid) in September 1997 and were subsequently optioned by Selwyn Minerals Inc.

The focus of the 1998 work program was to fulfill the work requirements to maintain the claims in good standing and to obtain some modern multi-element geochemical data to better define a mineralization deposit model for this mineral occurrence.

Trenches sampled returned assays of up to 2.24 oz/ton gold from quartz veins cutting sericite schist in Trench 84-14. Other trenches sampled were anomalous in gold, arsenic, bismuth and tellurium. The geochemical association of Au, As, Bi, Te, +/- Cu Pb. Zn and Sb is found in both the veins on the tetradymite vein system and in samples collected from the rhyolite porphyry.

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INTRODUCTION

This report was prepared to satisfy the assessment reporting requirements under the Yukon Quartz Mining Act. Exploration work consisted of mapping, soil and rock sampling on old trenches over the tetradymite vein system which is located northeast and downslope from a rhyolite porphyry plug and has a general strike of 130°. The work was completed between October 2-5 by a three person crew. The crew was mobilized to the property by helicopter out of Carmacks and gear was slung from the Minto airstrip. The samples were collected by Al Doherty, P. Geo., Joe Clarke, and Bruce Skea.

This report is based on the authors' knowledge of the property and area gained from exploration work on this and nearby properties, and from public and private reports.

Location and Access

The Swede and Sam Claims are located approximately 110 km northwest of Carmacks Yukon on the west side of Hayes Creek a tributary of the Yukon River. The property is situated in the northeast corner of 1:50,000 Selwyn River map area (NTS 115-J-9) and the west side of Wolverine Creek map area (NTS 115-I-12). The geographic coordinates of a point approximately in the centre of the claims are 62° 39' north latitude and 138° 05' west longitude (Figure 1). Access to the property is by helicopter. The property is accessible by winter trails, the Casino trail leads from Carmacks northwest for 59 km to Sonora Gulch and another winter trail leads west from the Minto deposit for 61 km to the Property.

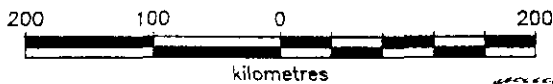
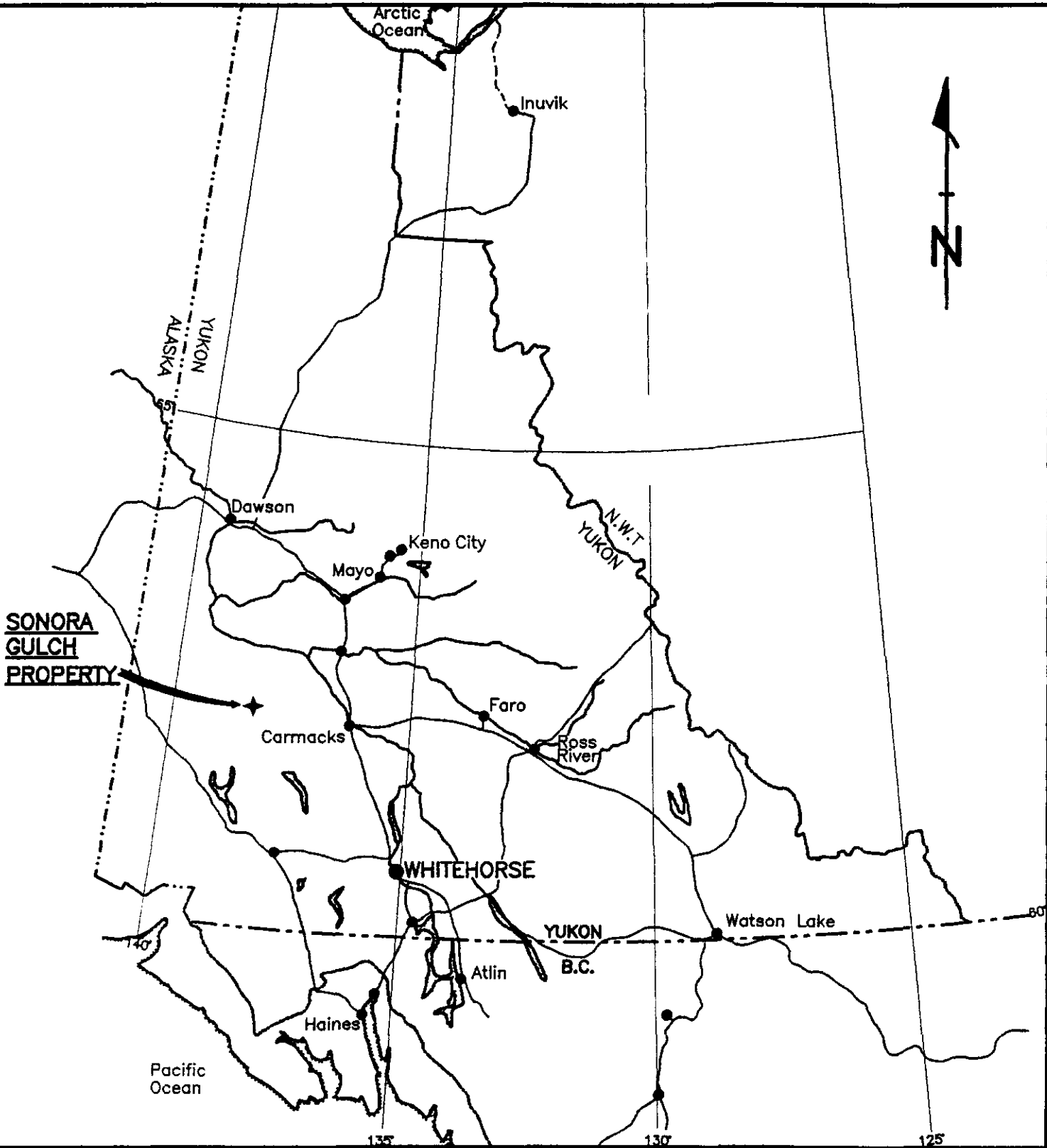
Property

The Sonora Gulch property consists of 104 contiguous un-surveyed two post quartz claims, (Figure 2), covering approximately 2,184 hectares. Figure 2 shows the location of the claims with respect to topography and major drainage's. The claims were staked in accordance with the Yukon Quartz Mining Act and are all within the Whitehorse Mining District. The claims were subject to a Sale Purchase Agreement between Selwyn Minerals Inc and Jan Martensson and Alan McDiarmid, which was terminated in early 1999. Current claim data are as follows:

TABLE I: Sonora Gulch Claim Data

CLAIM NAME	GRANT NUMBERS	MINING DIST.	EXPIRY DATE *
SWEDE 1-6	YA03779-YA03784	WHITEHORSE	OCT. 02, 1999
SAM 1-18	YA03869-YA03886	WHITEHORSE	OCT. 28, 1998
SAM 20-35	YA03888-YA03903	WHITEHORSE	OCT. 28, 1998
SAM 37-86	YA03905-YA03954	WHITEHORSE	OCT. 28, 1998
SAM 87-98	YA08275-YA08286	WHITEHORSE	OCT. 15, 1998
SAM 117-118	YC08341-YC08342	WHITEHORSE	OCT. 14, 1998

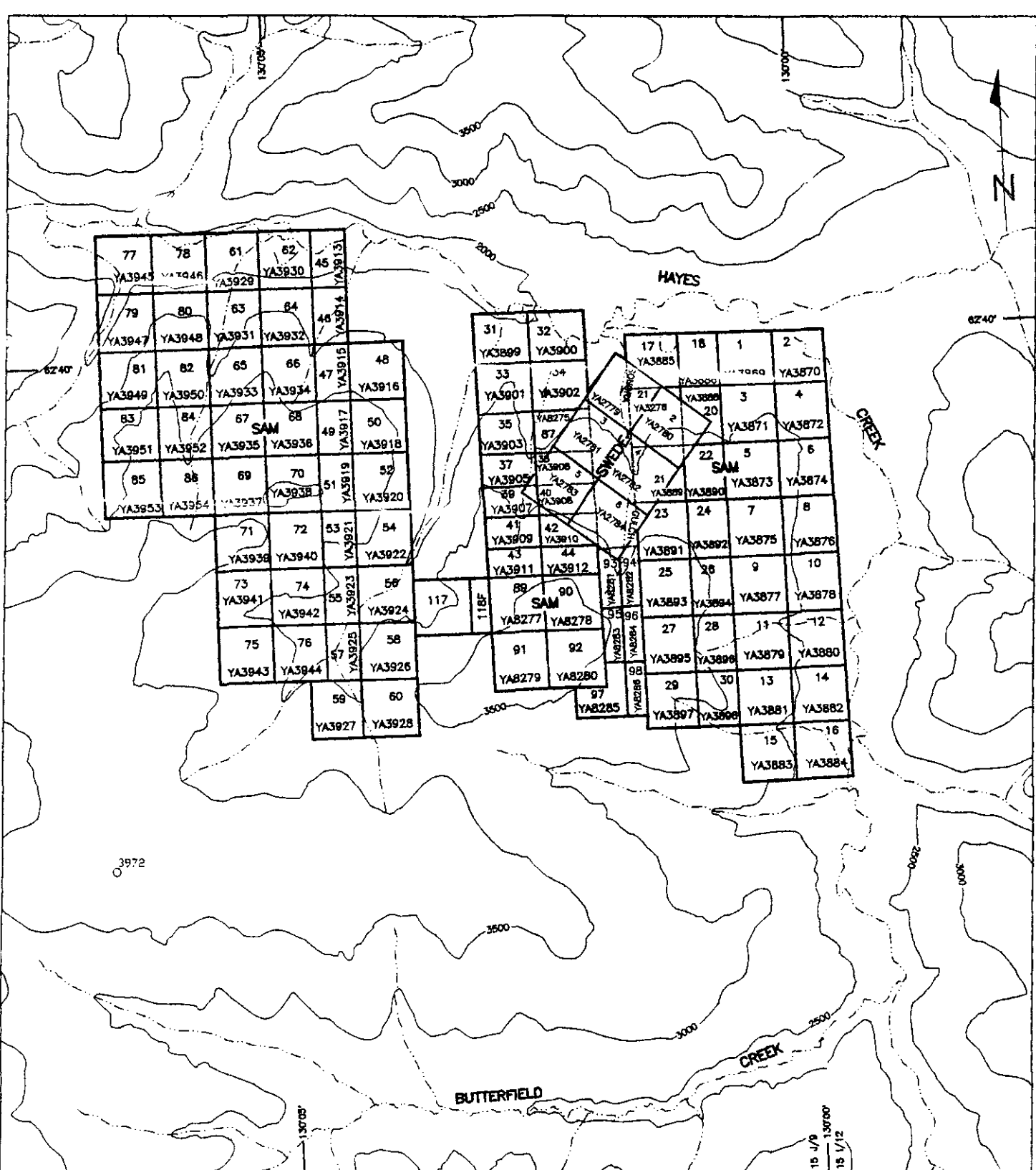
* subject to approval of 1998 assessment work. A cash in lieu payment was made to maintain the Swede 1-6 claims



SONORA GULCH PROPERTY
 WHITEHORSE MINING DISTRICT, YUKON TERRITORY

**PROPERTY
 LOCATION
 MAP**

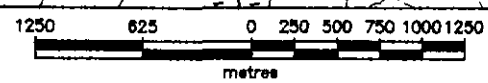
Aurum Geological Consultants Inc.	date: APRIL, 1998
NTS: 115 L, J	drawn: JC scale: 1:6,000,000 figure: 1



LEGEND

- CLAIM BOUNDARY
- CLAIM NUMBER
- GRANT NUMBER

- CLAIM GROUP BOUNDARY
- CONTOUR LINE 500 ft INTERVAL
- CREEK



SONORA GULCH PROPERTY
WHITEHORSE MINING DISTRICT

CLAIM MAP

History

The first reported quartz claims in the Sonora Gulch area were staked in 1899 and again in 1945 when trenching was carried out during the 1946-1951 period in connection with placer activity (Douglas, 1982). After the discovery of porphyry copper gold molybdenum mineralization at Casino in 1962, the Sonora Gulch area was reassessed for its porphyry potential by Coranex Limited in 1965 and by the Dawson Range Joint venture in 1969-1970.

Assessment report records on the Swede and Sam claims date back to 1975 when Anglo American Corporation of Canada Exploration Ltd., commenced negotiating an option on the Swede 1-6 claims from J. Martensson and A. McDiarmid. Anglo immediately added the Sam1-98 claims to the core Swede 1-6 claims and concluded an option agreement on the Swede 1-6 claims in late 1977.

Anglo American completed a Ag, Pb soil geochemical survey on the Sam 1-98 claims in 1976. Results were sufficiently encouraging to warrant further exploration (McKinney, 1976). Additional soil sampling and trenching and drilling was completed between 1977 and 1984 during which time Hudson Bay Exploration and Development Company Limited and Tombil Mines Limited entered into a joint venture agreement with Anglo. HBED was the operator. In 1984 the claims were transferred to Hayes Resources Ltd.

In 1977 and an 11 hole 1606 foot drill program focused on assessing gold in soil geochemical anomalies associated with quartz-calcite-pyrite veins and the lead copper sulphosalts boulangerite and bornonite. The area drilled was within and on the rhyolite porphyry metasedimentary contact and intersected some limited gold values. Further drilling was completed (4 BQ holes 1328) in 1980 and a further seven holes totaling 2664 feet in 1981. Mainly on the Tetradyomite vein northeast of the rhyolite plug. Drill targets were based on soil geochemical anomalies, trench anomalies and on Magnetometer and VLF-EM anomalies outlined by surveys completed in 1980.

The last major exploration program was completed in 1984 and consisted of 43 trenches of which 23 were sampled over 2483 feet and a five hole drill program totaling 2279 feet.

A work program was completed for Selwyn Minerals Inc., in the fall of 1997. This work focused on the rhyolite plug to determine if it was the source of the mineralizing fluids.

Assessment reports detailing this work are referenced as (Bidwell, 1978, Douglas 1977, 1981, 1982, 1984 and 1985; Doherty, 1998).

Physiography, Climate and Vegetation

An interior continental climate with moderate to low precipitation (30 cm annually), warm summers and cold winters typifies the area. Permafrost is commonly encountered particularly on the steeper north and east facing slopes and low, marshy, forested areas. The property is normally snow free from mid June to late September. Relief on the property is approximately 1600 feet, with the highest point reaching 3700 feet just west of the airstrip. The majority of the property is below tree line. Vegetation on the north facing slope consists of black spruce, willow and alder. The most recent continental glacial advances did not cover this area of the Yukon. However, evidence of Pleistocene valley glaciers can be found in some areas (Payne et al. 1987). As a result, outcrop exposure is poor (~5%) except on ridge tops and incised drainage channels and gullies.

GEOLOGY

Regional Geology

The property is located in the central portion of the Dawson Range which extends from Carmacks to the Yukon-Alaska border. The oldest rocks in the area are the Paleozoic (?) Yukon Tanana Terrane metamorphic rocks (Figure 3). These are intruded by batholiths and plutons emplaced in the Triassic, Jurassic and Late Cretaceous periods. The Big Creek and Hoochekoo faults are two major northwest trending faults that transect the area. The nature and extent of displacement on these faults is uncertain. The Big Creek and Hoochekoo faults merge just north of the Sonora Gulch property.

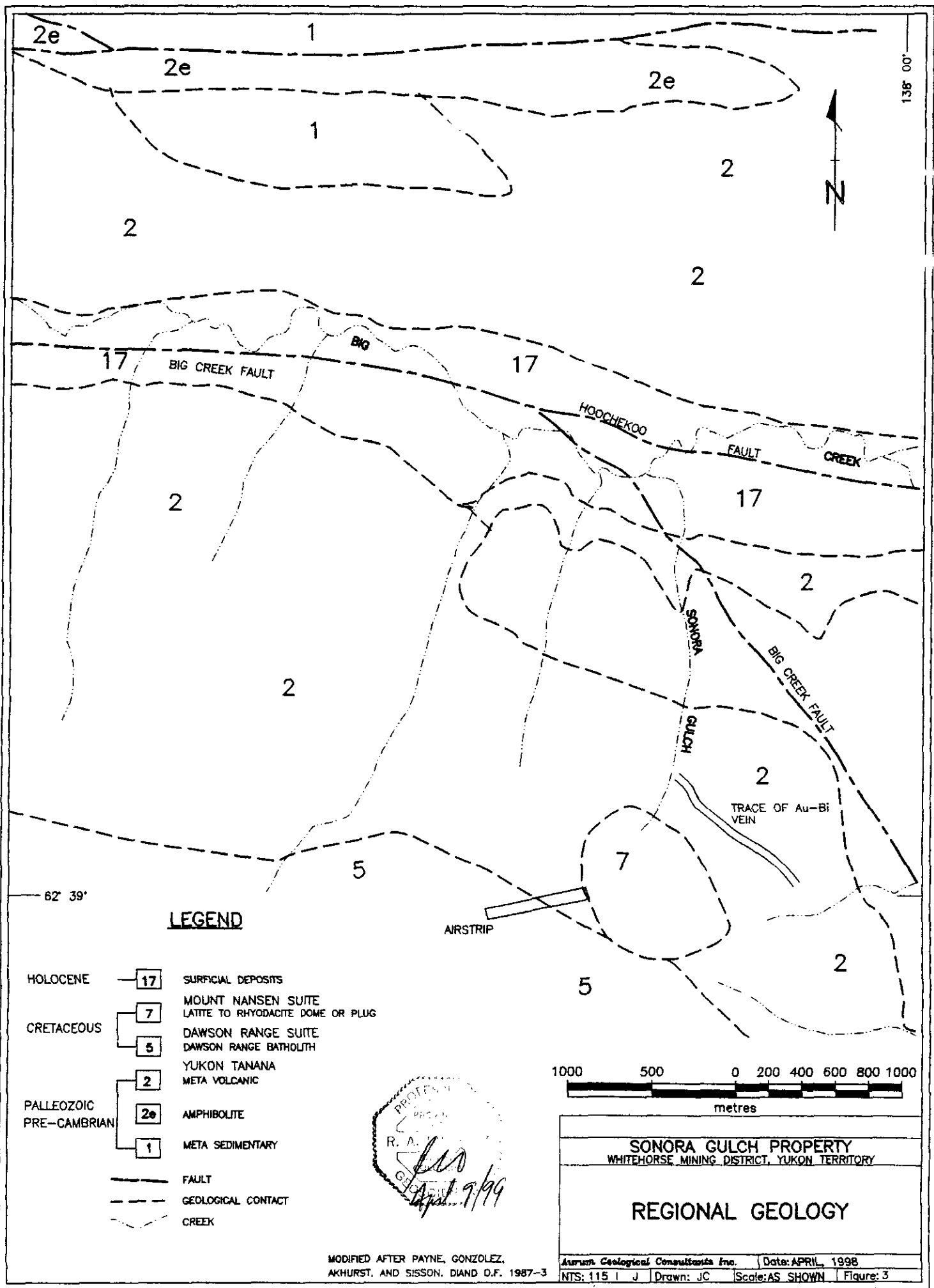
Numerous mineral occurrences are documented along the southeastern side of the Big Creek-Hoochekoo fault system and comprise Cu-Mo porphyry mineralization as found at Casino, Zappa, Pattison, Cockfield, and Cash most of which are hosted by the Dawson Range granodiorites. Most of the porphyry occurrences are located southwest of the Big Creek fault in what is known as the Dawson Range mineral belt (Hart, 1998). Vein systems hosting Ag-Pb-Zn, and Au mineralization are commonly associated with the Mt. Nansen suite of intrusions and volcanics.

PROPERTY GEOLOGY

The Sonora Gulch Property is located just southwest of the Big Creek fault (Figure 3). Yukon Tanana terrane metasedimentary and metavolcanic rocks are cut by a Dawson range pluton of granodioritic composition on the southwest side of the claim block. On the central south portion of the claim block a Mount Nansen suite rhyolite porphyry plug intrudes the metasedimentary and metavolcanic rocks of the Yukon Tanana terrane and probably cuts the Dawson range granodiorite as well. The Hayes creek valley is filled with surficial deposits that host the placer gold and tetradymite.

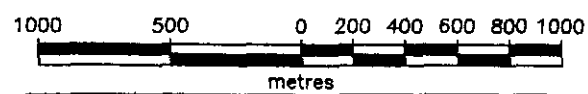
Drill core descriptions of the metasedimentary and metavolcanic rocks describe mostly quartz-mica schist, quartz-biotite gneiss and meta-andesites. Gabbro is noted in some sections and proximal to the mafic lithologies listwanite type alteration is described.

The rhyolite porphyry is a fine to medium grained gray to yellow and green quartz eye porphyry. Alteration within the porphyry consists of bleaching, silicification, sericitization and some areas of argillic alteration. The porphyry contains disseminated pyrite from <0.5 to 5%. Quartz stringers were noted but are not common. On the surface the porphyry is limonitized and hematitized. The main soil geochemical anomalies defined by Hudson Bay Exploration and Development are associated with the rhyolite porphyry. Re-sampling of old trenches over the rhyolite porphyry in 1997 confirmed that the rhyolite porphyry contains anomalous gold in the 1 to 3 gram range. Significant gold analyses are confined to the rhyolite porphyry and the Tetradymite vein system on the northeast side of the rhyolite porphyry.



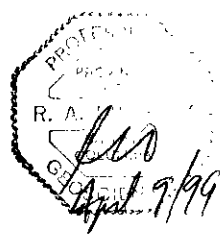
LEGEND

- HOLOCENE — 17 SURFICIAL DEPOSITS
- CRETACEOUS — 7 MOUNT NANSEN SUITE
LATTITE TO RHYODACITE DOME OR PLUG
- 5 DAWSON RANGE SUITE
DAWSON RANGE BATHOLITH
- 2 YUKON TANANA
META VOLCANIC
- PALAEZOIC — 2e AMPHIBOLITE
- PRE-CAMBRIAN — 1 META SEDIMENTARY
- FAULT
- GEOLOGICAL CONTACT
- - - CREEK



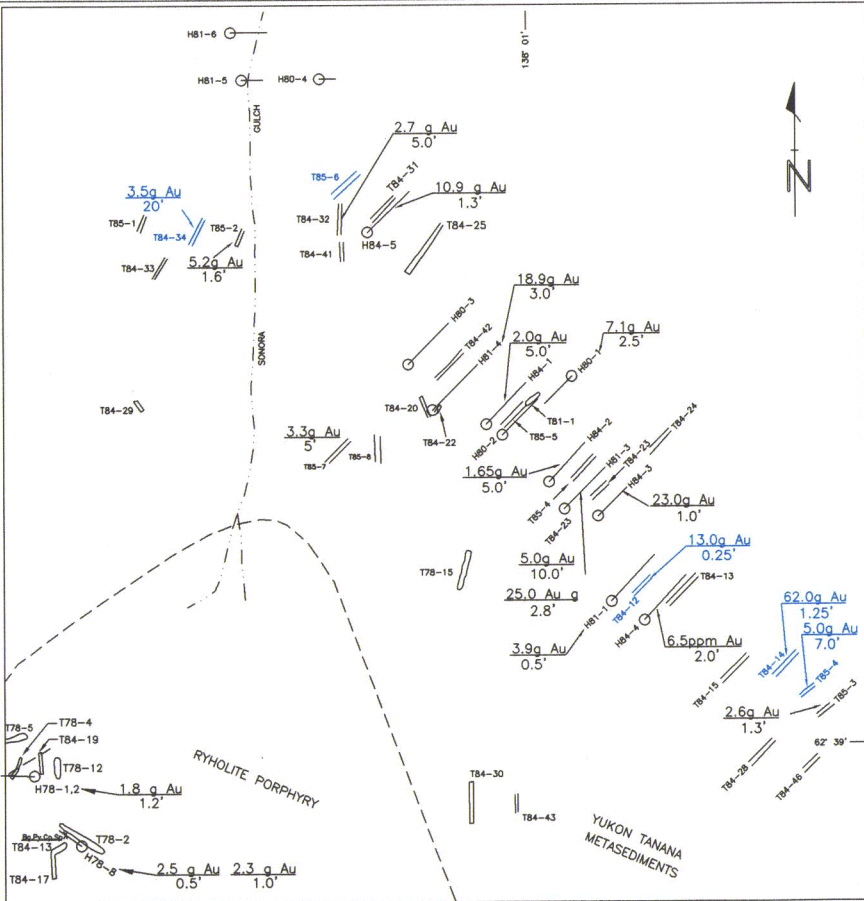
SONORA GULCH PROPERTY
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

REGIONAL GEOLOGY









MODIFIED AFTER PAYNE, GONZOLEZ,
AKHURST, AND SISSON, DIAND D.F. 1987-3

Aurum Geological Consultants Inc. Date: APRIL, 1998
NTS: 115 | J Drawn: JC Scale: AS SHOWN Figure: 3

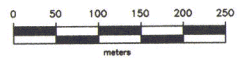
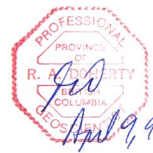


LEGEND

SYMBOLS

-  GEOLOGICAL CONTACT
-  FAULT
-  DIAMOND DRILL HOLE
-  CAT TRENCH
-  CREEK
-  1998 TRENCH SAMPLE LOCATION

- Py PYRITE
- Po PYRRHOTITE
- Cp CHALCOPYRITE
- Sp SPHALERITE
- Gn GALENA
- Bg BOULANGERITE
- Au GOLD
- Ag SILVER
- Tt TETRADYMIT
- As ARSENOPYRITE



SONORA GULCH PROPERTY
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

TRENCH AND DIAMOND DRILL ASSAY RESULTS

1998 Trench Sampling

The focus of the 1998 work program was to re-sample old trenches excavated over the tetradymite vein system located northeast and downslope from a rhyolite porphyry intrusion and to obtain current 31 element ICP analyses to better define the exploration model for the Sonora Gulch property. The trenches were first located, cleaned of snow and cleared to expose material for sampling.

Five trenches (84-12, 84-14, 84-34, 85-4 and 85-6) that had previously returned anomalous gold values were re-sampled by collecting rock or soil samples from the bottoms of the trenches. A total of seven rock and fifteen soil samples were collected from the trenches. All trenches had been excavated over the tetradymite vein system. The locations of the sampled trenches are shown in Figure 4 along with significant previous sampling results and drill hole locations over the tetradymite vein system.

The results of the sampling are shown in Figures 5-9. The best results were returned from trench 84-14 where a narrow 3-5 cm quartz vein returned 2.24 oz/ton gold and was also highly anomalous in silver, arsenic, bismuth, tellurium, copper, lead, zinc, antimony and tungsten (Figure 7). Samples from other trenches returned anomalous values in gold, arsenic, bismuth and tellurium.

Trench 84-34 - Figure 5

This trench was excavated on the west side of Sonora Gulch. The trench exposed garnet-magnetite-epidote skarn with disseminated pyrite and arsenopyrite. Three rock samples returned anomalous gold (190-495 ppb Au), along with silver, bismuth, tellurium, and copper.

Trench 85-4 - Figure 6

Trench 85-4 was excavated over a soil geochemical anomaly and exposed sericite altered chlorite schist. The 1998 soil samples were weakly anomalous in gold, arsenic and tellurium.

Trench 84-14 - Figure 7

Trench 84-14 was re-sampled because it had returned a high grade sample of 62 g/t Au over 1.25 feet from 1984. A narrow 3-5 cm quartz vein was exposed within a 50cm wide envelope of hematite and clay alteration. A sample of the vein material returned 2.24 oz/ton gold with anomalous Ag, As, Bi, Cd, Cu, Mo, Pb, Sb, W, and Te. Wallrock samples returned lower values.

Trench 84-12 - Figure 8

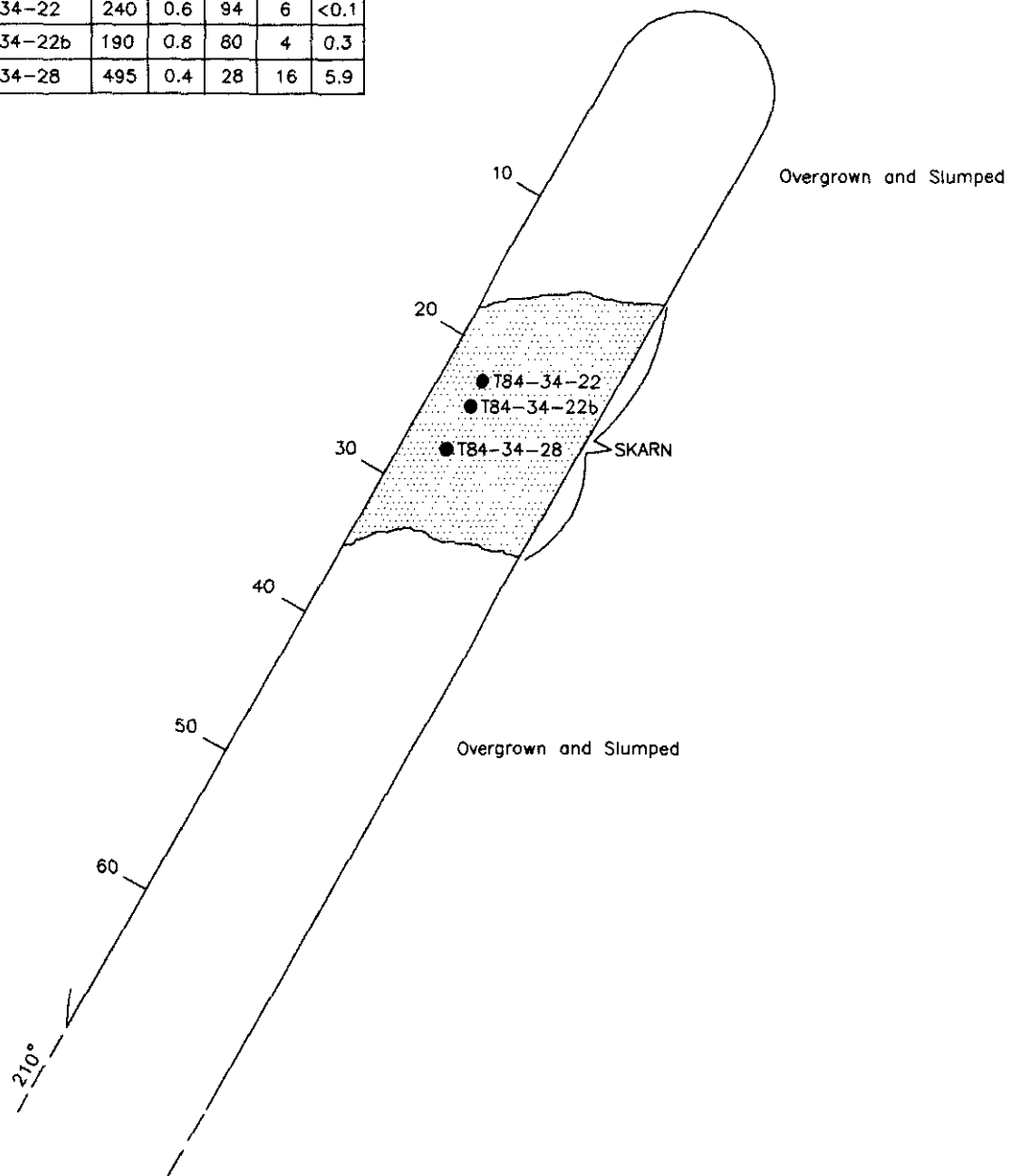
This trench exposed limonite and clay altered schist and returned low 20-40 ppb gold and copper anomalies.

Trench 85-6 - Figure 9

This trench cut into overburden on the west facing slope above Sonora Gulch. Soil samples collected at five meter intervals along the trench returned three samples anomalous in gold (50-15 ppb Au) with anomalous arsenic, copper, molybdenum and lead.

In comparing the geochemical results from samples collected in 1997 over the rhyolite porphyry and the 1998 samples collected from the tetradymite vein system, there is only minor differences between the sample sets. The samples from the rhyolite porphyry on average contain three times more potassium and are lower in calcium, chrome and cobalt but are of very similar geochemistry to samples collected on the tetradymite vein system. Sample descriptions are found in Appendix A. Chemical analyses are in Appendix B.

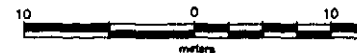
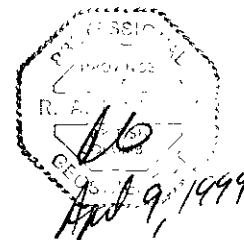
	Au ppb	Ag ppm	As ppm	Bi ppm	Te ppm
T84-34-22	240	0.6	94	6	<0.1
T84-34-22b	190	0.8	80	4	0.3
T84-34-28	495	0.4	28	16	5.9



LEGEND

- T84-34-22 Reddish brown garnet-calcite
-epidote Skarn, with Mt, Apy,
Py, CPy as blebs and
disseminations.
- T84-34-22b Same as T84-34-22, but with
green chlorite.
- T84-34-28 Same as above.

Au GOLD
Ag SILVER
As ARSENOPYRITE
Te TELLURIUM
Bi BISMUTH



SONORA GULCH PROPERTY
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

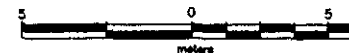
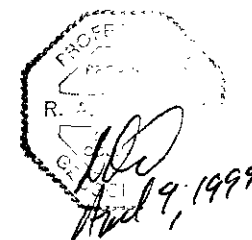
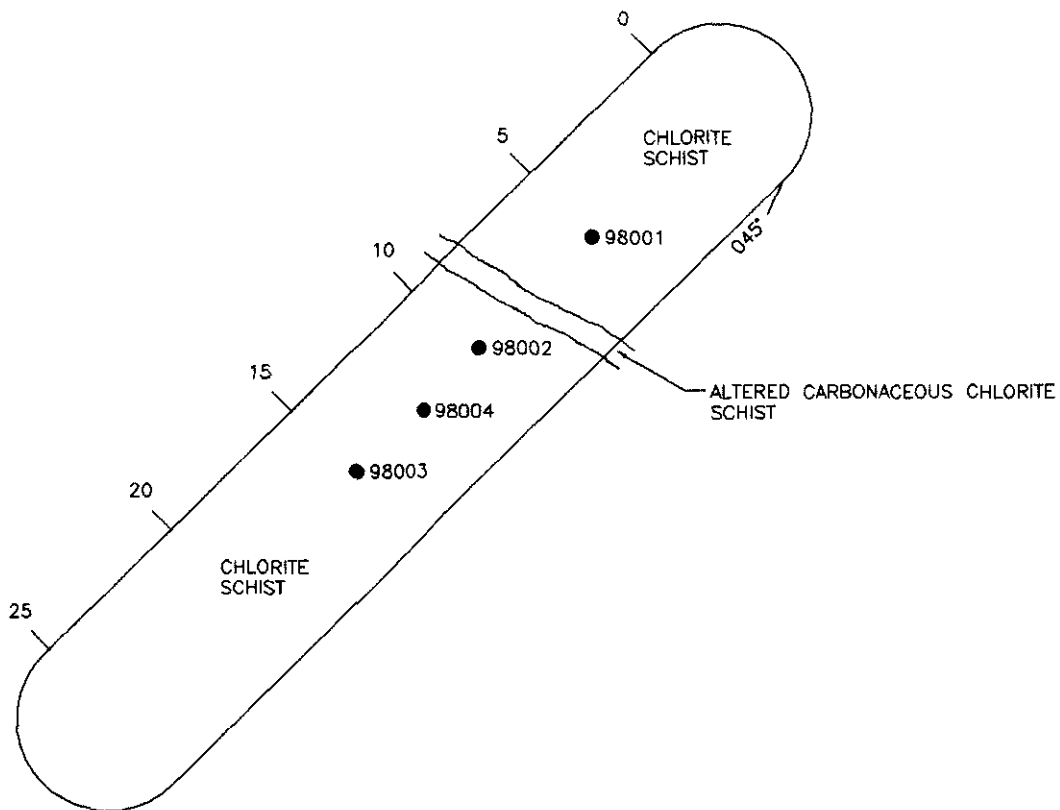
1998 SAMPLES
TRENCH 84-34
SWEDE 6 CLAIM (4A03784)

	Au ppb	Ag ppm	As ppm	Bi ppm	Te ppm
98001	30	0.2	74	<2	<1
98002	10	0.2	36	<2	<1
98003	95	1.2	536	2	<1
98003	200	.08	456	2	0.3



LEGEND

Au	GOLD
Ag	SILVER
As	ARSENOPYRITE
Bi	BISMUTH
Te	TELLURIUM



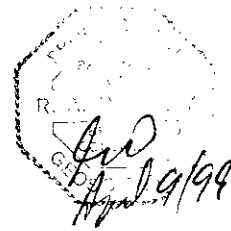
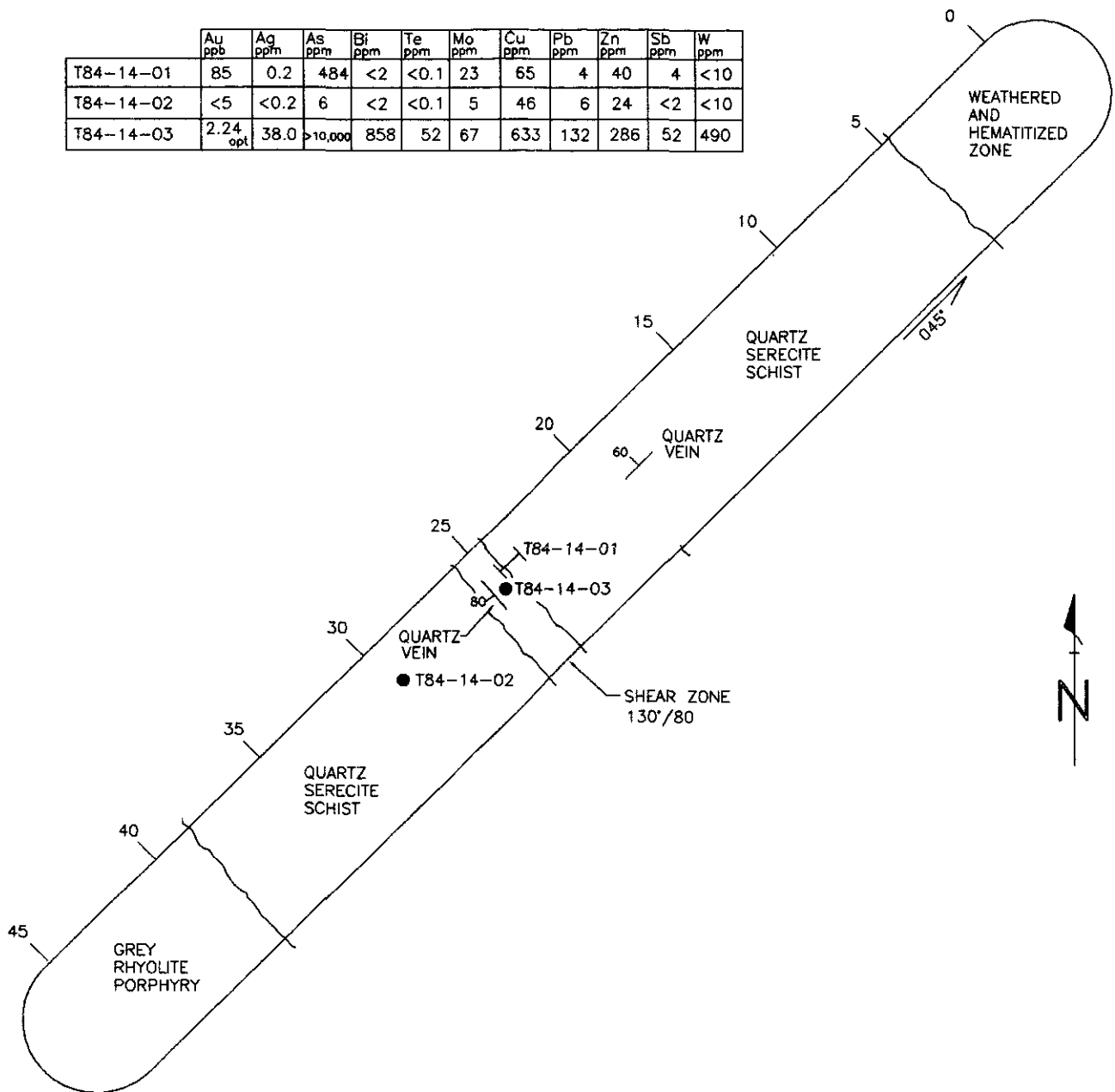
SONORA GULCH PROPERTY
WHITEHORSE MINING DISTRICT YUKON TERRITORY

1998 SAMPLES
TRENCH 85-4
SWEDE 6 CLAIM

LEGEND

- Au GOLD
- Ag SILVER
- As ARSENOPYRITE
- Te TELLURIUM
- Bi BISMUTH
- Mo MOLYBDENUM
- Cu COPPER
- Pb LEAD
- Zn ZINC
- Sb ANTIMONY
- W TUNGSTEN

	Au ppb	Ag ppm	As ppm	Bi ppm	Te ppm	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Sb ppm	W ppm
T84-14-01	85	0.2	484	<2	<0.1	23	65	4	40	4	<10
T84-14-02	<5	<0.2	6	<2	<0.1	5	46	6	24	<2	<10
T84-14-03	2.24 opt	38.0	>10,000	858	52	67	633	132	286	52	490



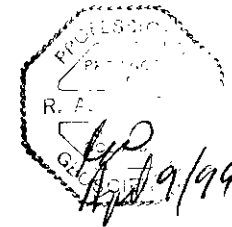
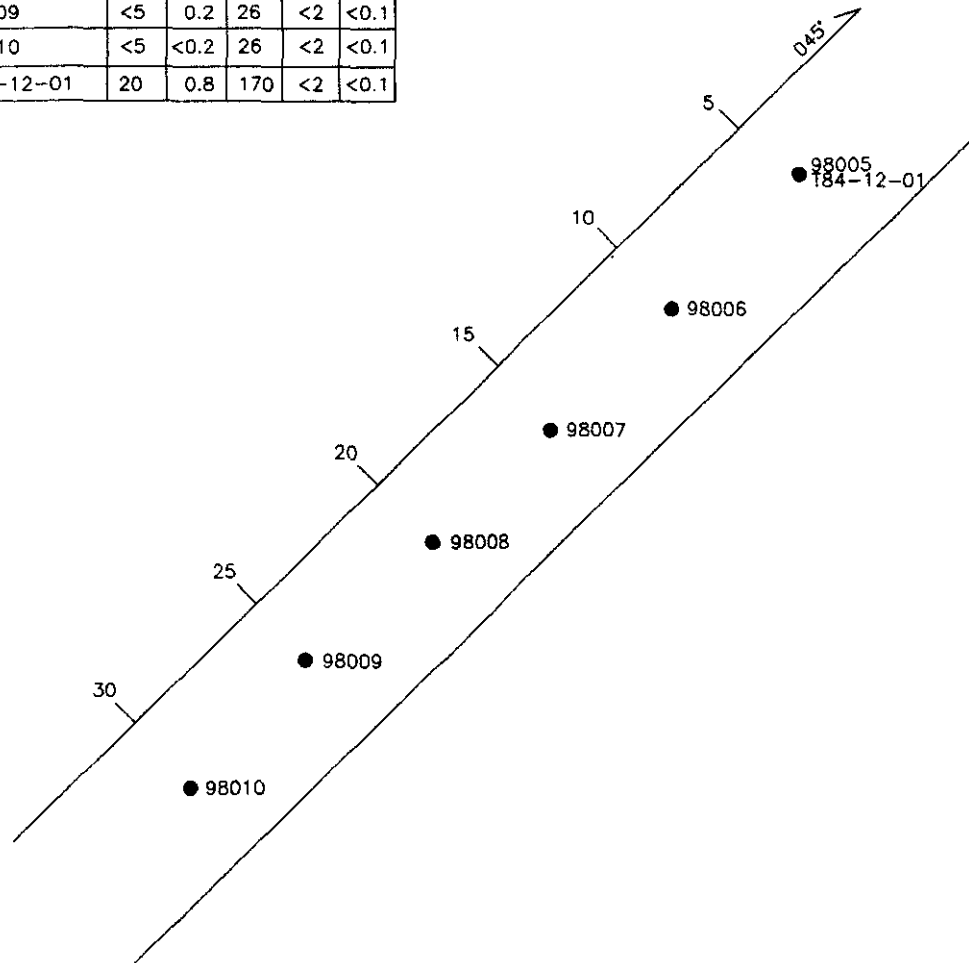
SONORA GULCH PROPERTY
 WHITEHORSE MINING DISTRICT, YUKON TERRITORY
 1998 SAMPLES
 TRENCH 84-14
 SAM 3 CLAIM (4A03891)
 Assum Geological Consultants Inc. Date: 1999
 NTS: NTS:115/J Drawn: MM Scale: 1:225 Figure 7

	Au ppb	Ag ppm	As ppm	Bi ppm	Te ppm
98005	25	1.2	428	<2	<0.1
98006	40	1.0	72	<2	<0.1
98007	30	1.4	68	<2	<0.1
98008	5	0.2	28	<2	<0.1
98009	<5	0.2	26	<2	<0.1
98010	<5	<0.2	26	<2	<0.1
T84-12-01	20	0.8	170	<2	<0.1



LEGEND

Au	GOLD
Ag	SILVER
As	ARSENOPYRITE
Te	TELLURIUM
Bi	BISMUTH



SONORA GULCH PROPERTY
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

1998 SAMPLES
TRENCH 84-12
SAM 3 CLAIM (4A03891)

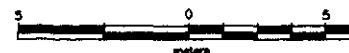
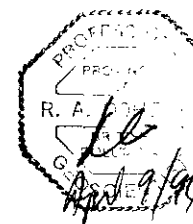
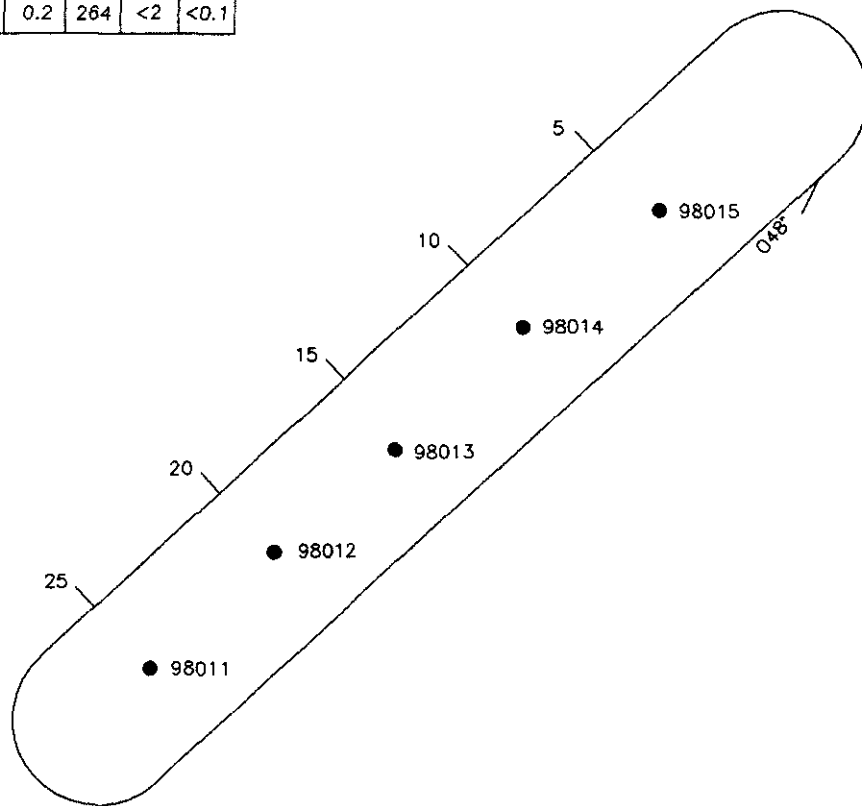
Atterton Geological Consultants Inc. Date: 1999

NTS: NTS:115/J | Drawn: MM | Scale: 1:225 | Figure 8

LEGEND

Au GOLD
 Ag SILVER
 As ARSENOPYRITE
 Te TELLURIUM
 Bi BISMUTH

	Au ppb	Ag ppm	As ppm	Bi ppm	Te ppm
98011	50	1.0	336	<2	<0.1
98012	115	1.6	892	<2	<0.1
98013	100	0.8	296	<2	<0.1
98014	25	0.6	196	<2	<0.1
98015	20	0.2	264	<2	<0.1



SONORA GULCH PROPERTY
 WHITEHORSE MINING DISTRICT YUKON TERRITORY
 1998 SAMPLES
 TRENCH 85-6
 SWEDE 6 CLAIM (4A03784)

CONCLUSIONS AND RECOMMENDATIONS

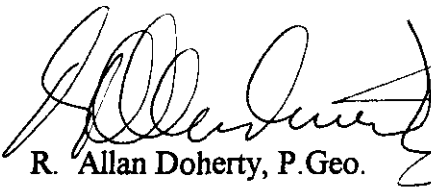
The Sonora Gulch property covers a late Cretaceous rhyolite porphyry intruding Yukon Tanana Terrane metasedimentary and metavolcanic rocks. Anomalous gold in the 1-3 gm range is found within the rhyolite porphyry and within quartz-calcite sulphosalt veins within the metasediments on the northeast side of the Rhyolite porphyry.

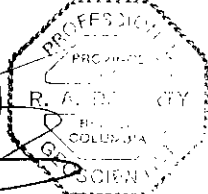
Resampling of old trenches in 1997 and 1998 has confirmed that the rhyolite porphyry and the tetradymite vein system hosts anomalous gold in the 1-3 gram per tonne range in the rhyolite porphyry and in multi-ounce range from the tetradymite vein system. The geochemistry of samples collected from the rhyolite and the tetradymite vein system are very similar and suggest that the rhyolite porphyry is the source of the mineralizing fluids at Sonora Gulch.

The geochemical signature of mineralization in both the rhyolite porphyry and the tetradymite vein system includes Au, As Bi, Te, +/- Cu, Pb, Zn, Sb and also Mo and W.

Further work is warranted and recommended and should consist of mapping, auger soil sampling and trenching and additional diamond or reverse circulation drilling at deeper levels on the tetradymite vein system. The area between the rhyolite porphyry and the tetradymite vein system should be further evaluated for low grade bulk tonnage gold mineralization.

Respectfully submitted;
Aurum Geological Consultants Inc.


R. Allan Doherty, P. Geo.



April 6, 1998

REFERENCES

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- Tempelman-Kluit, D.J., 1974. Reconnaissance Geology of Aishihik Lake, Snag and part of Stewart River Map-Areas, west Central Yukon: GSC Paper 73-41

Walker, A. A., 1977. Assessment report Geochemical, Electromagnetic and Geological Surveys, August 1977. Sam 1-98 Claims, NTS 115-J-9 and 115-I-12. Assessment report # 090223 for Anglo American Corp. of Canada Exploration.

Walton, L., 1987. Assessment report, Magnetometer Survey Hayes Creek Area, Yukon NTS 115J/9, 115I/12

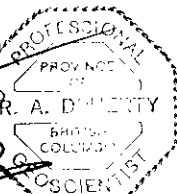
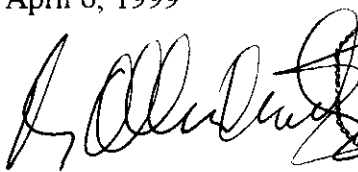
Watson, K. W., 1982. Summary Report on the Placer Potential of the Hayes Creek Area, Central Yukon.

STATEMENT OF QUALIFICATIONS

I, R. Allan Doherty, with business address:
Aurum Geological Consultants Inc.
205 - 100 Main Street
P.O. Box 4367
Whitehorse, Yukon
Y1A 3T5

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., 205 - 100 Main Street, P.O. Box 4367, Whitehorse, Yukon.
2. I am a graduate of the University of New Brunswick, with a degree in geology (Hons.B.Sc., 1977) and that I attended graduate school at Memorial University of Newfoundland (1978-81). I have been involved in geological mapping and mineral exploration continuously since then.
3. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, Registration No. 20564.
4. I have based this report on property work completed between October 2-5, 1998 my knowledge of the area and on referenced sources.
5. I am the President and sole shareholder of Selwyn Minerals Inc.
6. I consent to the use of this report by Selwyn Minerals Inc., provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

April 6, 1999



R. Allan Doherty, P. Geo.

STATEMENT OF COSTS

1998 Assessment Work Valuation; **Sam 1-118 Claims, 105 J/9 & 105 I/12**. Work completed between October 2-5, 1998. A total of 98 claims and \$9800.00 of work required.

A. Personnel

R. Allan Doherty, P. Geo. , Prospector, mapping, sampling October 2-5, 1998, 4 Day @ \$400/day	\$1,600.00
Joseph A. J. Clarke, CET, Prospector, Sampler October 3-5, 1998, 3 Day @ \$300/day	\$ 900.00
Bruce Skea, Sampler October 3-5, 1997 3 day @ \$250.00	\$ 750.00

B. Expenses

Camp Costs (9 man days @ \$75 per day)	\$ 675.00
Trans North Helicopters	\$3,058.10
Truck rental:	\$ 200.00
Gasoline, Propane	\$ 156.18
Analytical Costs:	\$ 579.95
Shipping:	\$ 51.00
Sample bags, flagging tape :	\$ 100.00

C. Report Costs

Report Writing and Reprographics	\$1,200.00
Sub-Total	\$9,270.23
GST (7% of \$4,864.03)	\$ 648.92
TOTAL ASSESSMENT VALUE	\$9,919.15

APPENIX A
SONORA GULCH
ROCK SAMPLE DESCRIPTIONS

SONORA GULCH
ROCK SAMPLES 1998

Sample #	Description	ppm Cu	ppm Pb	ppm Zn	ppb Ag	ppm As	ppm Bi	ppb Au	ppm Te
TR84-12-01	Sample of vein quartz in yellow brown limonite stained schist	242	8	40	0.8	70	<2	2.0	<0.1
TR84-14-1	Grab sample of quartz vein material from north wall of trench. Dark grey quartz, strained. No visible sulphides	65	4	40	0.2	484	<2	85	<0.1
TR84-14-02	Blue grey silicified schist with pyrite.	46	6	24	<0.2	6	<2	<5	<0.1
TR84-14-03	Quartz vein, 3-5 cm wide, contained within a red hematite and clay altered zone 50 cm wide. Vein is light grey, fractured and with sericite coatings.	633	132	286	38	>10000	858	76.73 g/t	52
TR84-34-22	Garnet-epidote-magnetite skarn zone with calcite and arsenopyrite as blebs and disseminations.	151	<2	24	0.6	94	6	240	<0.1
R84-34-22B	Green chlorite rich calc-silicate with disseminated magnetite	257	6	4	0.8	80	4	190	0.3
TR84-34-28	Same as TR84-34-22	127	4	46	0.4	28	16	495	5.9

APPENDIX B
GEOCHEMICAL ANALYSES AND STATISTICS

Chemex Labs Ltd. Certificate A9834555 -Soils
Chemex Labs Ltd. Certificate A9834556 -Rocks



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: AURUM GEOLOGICAL CONSULTANTS INC.

P.O. BOX 4367
WHITEHORSE, YT
Y1A 3T5

A9834555

Comments: ATTN: A. DOHERTY

CERTIFICATE

A9834555

(LIS) - AURUM GEOLOGICAL CONSULTANTS INC.

Project: 09
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 04-NOV-1998.

SAMPLE PREPARATION

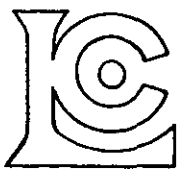
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
217	15	Geochem ring entire sample
229	15	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	15	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	15	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	15	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	15	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	15	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	15	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	15	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	15	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	15	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	15	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	15	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	15	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	15	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	15	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	15	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	15	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	15	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	15	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	15	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	15	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	15	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	15	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	15	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	15	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	15	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	15	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	15	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	15	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	15	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	15	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	15	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	15	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	15	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000
54	15	Te ppm: HBr-Br2 digest, extrac	AAS-BKGD CORR	0.1	100.0



Chemex Labs Ltd.

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P.O. BOX 4367
WHITEHORSE, YT
Y1A 3T5

Project: 09
Comments: ATTN: A. DOHERTY

Page Number : 1-A
Total Pages : 1
Certificate Date: 04-NOV-1998
Invoice No. : 19834555
P.O. Number :
Account : LIS

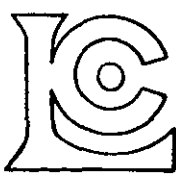
CERTIFICATE OF ANALYSIS

A 834555

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
98001	217	229	30	0.2	2.39	74	90	0.5	< 2	0.55	< 0.5	12	111	133	3.46	< 10	1	0.21	20	0.92	145
98002	217	229	10	0.2	3.71	36	90	1.0	< 2	1.09	< 0.5	31	518	209	6.04	10	1	0.58	10	2.30	555
98003	217	229	95	1.2	1.05	536	440	< 0.5	2	0.18	0.5	11	147	179	2.61	< 1	1	0.21	10	0.49	165
98004	217	229	200	0.8	1.62	456	120	0.5	2	0.23	< 0.5	13	139	200	3.44	< 10	3	0.23	10	0.62	135
98005	217	229	25	1.2	0.70	428	290	0.5	< 2	0.13	2.5	58	96	618	3.41	< 10	2	0.20	30	0.09	565
98006	217	229	40	1.0	1.12	72	240	1.0	< 2	0.21	1.5	21	78	743	3.80	< 10	< 1	0.22	30	0.10	140
98007	217	229	30	1.4	0.81	68	20	0.5	2	1.75	0.5	15	93	454	3.26	< 10	1	0.29	< 10	0.59	270
98008	217	229	5	0.2	4.75	28	360	0.5	< 2	2.35	1.0	25	33	122	4.97	10	< 1	0.73	< 10	2.12	500
98009	217	229	< 5	0.2	3.98	26	120	0.5	< 2	1.36	1.0	31	24	201	4.10	< 10	< 1	0.28	< 10	1.47	530
98010	217	229	< 5	< 0.2	2.75	26	170	< 0.5	< 2	0.67	< 0.5	17	170	81	3.03	< 10	1	0.41	10	2.14	505
98011	217	229	50	1.0	1.92	336	110	< 0.5	< 2	0.36	0.5	9	125	162	3.76	< 10	< 1	0.32	10	0.78	170
98012	217	229	115	1.6	2.12	892	130	< 0.5	< 2	0.31	1.5	8	148	133	3.94	< 10	1	0.39	10	0.82	180
98013	217	229	100	0.8	2.39	296	160	< 0.5	< 2	0.13	0.5	9	160	171	4.16	< 10	< 1	0.83	20	1.16	115
98014	217	229	25	0.6	2.59	196	180	0.5	< 2	0.14	0.5	15	172	182	4.54	< 10	< 1	0.69	10	1.27	180
98015	217	229	20	0.2	1.93	264	80	< 0.5	< 2	0.28	< 0.5	8	123	92	2.95	< 10	< 1	0.42	10	1.08	115

CERTIFICATION:

Handwritten signature



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: AURUM GEOLOGICAL CONSULTANTS INC

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WHITEHORSE, YT
Y1A 3T5

Project: 09
Comments: ATTN: A. DOHERTY

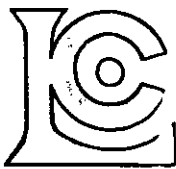
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Total Pages : 1
Certificate Date: 04-NOV-1998
Invoice No. : 19834555
P.O. Number :
Account : LIS

CERTIFICATE OF ANALYSIS

A9834555

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Te
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
98001	217	229	26	0.08	27	360	6	< 2	6	39	0.04	< 10	< 10	33	< 10	41	< 0.1
98002	217	229	9	0.01	146	940	2	< 2	21	22	0.03	< 10	< 10	140	< 10	81	< 0.1
98003	217	229	17	0.03	12	200	50	4	3	13	0.01	< 10	< 10	20	< 10	51	< 0.1
98004	217	229	26	0.03	15	260	30	2	4	14	0.01	< 10	< 10	25	< 10	41	0.3
98005	217	229	6	< 0.01	12	60	18	2	4	57	< 0.01	< 10	< 10	9	< 10	91	< 0.1
98006	217	229	6	0.01	15	360	8	< 2	8	19	< 0.01	< 10	< 10	22	< 10	91	< 0.1
98007	217	229	9	< 0.01	14	280	16	2	8	45	< 0.01	< 10	< 10	18	< 10	61	< 0.1
98008	217	229	3	0.12	22	190	2	< 2	18	88	0.16	< 10	< 10	139	< 10	81	< 0.1
98009	217	229	3	0.19	36	210	6	< 2	16	51	0.15	< 10	< 10	162	< 10	71	< 0.1
98010	217	229	1	0.08	57	650	2	4	10	48	0.09	< 10	< 10	80	< 10	41	< 0.1
98011	217	229	9	0.03	27	250	96	< 2	5	31	0.07	< 10	< 10	41	< 10	81	< 0.1
98012	217	229	10	0.03	26	290	220	2	5	29	0.08	< 10	< 10	46	< 10	111	< 0.1
98013	217	229	6	0.05	29	360	22	< 2	6	38	0.07	< 10	< 10	43	< 10	81	< 0.1
98014	217	229	12	0.03	41	350	28	< 2	7	34	0.08	< 10	< 10	50	< 10	51	< 0.1
98015	217	229	13	0.06	22	370	26	2	6	26	0.09	< 10	< 10	50	< 10	41	< 0.1

CERTIFICATION: *Alan Rickman*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: AURUM GEOLOGICAL CONSULTANTS INC.

P.O. BOX 4367
 WHITEHORSE, YT
 Y1A 3T5

A9834556

Comments: A1 TN: A. DOHERTY

CERTIFICATE

A9834556

(LIS) - AURUM GEOLOGICAL CONSULTANTS INC.

Project: 09
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 03-NOV-1998.

SAMPLE PREPARATION

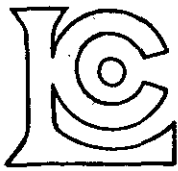
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	7	Geochem ring to approx 150 mesh
226	7	0-3 Kg crush and split
3202	7	Rock - save entire reject
229	7	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	7	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
997	1	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0
2118	7	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	7	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	7	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	7	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	7	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	7	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	7	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	7	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	7	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	7	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	7	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	7	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	7	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	7	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	7	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	7	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	7	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	7	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	7	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	7	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	7	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	7	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	7	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	7	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	7	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	7	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	7	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	7	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	7	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	7	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	7	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	7	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000
54	7	Te ppm: HBr-Br2 digest, extrac	AAS-BKGD CORR	0.1	100.0



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Account : LIS

CERTIFICATE OF ANALYSIS

A9834556

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
TR84-12-01	205 226	20 -----		0.8	0.13	70	170	< 0.5	< 2	0.37	2.0	15	197	242	1.24	< 10	< 1	0.07	< 10	0.17
TR84-14-01	205 226	85 -----		0.2	0.22	484	20	< 0.5	< 2	0.09	< 0.5	10	188	65	1.04	< 10	< 1	0.13	10	0.04
TR84-14-02	205 226	< 5 -----		< 0.2	3.71	6	70	0.5	< 2	1.39	0.5	6	99	46	2.02	10	1	0.18	20	0.94
TR84-14-03	205 226	>10000	76.73	38.0	1.09	>10000	80	0.5	858	1.26	6.5	147	117	633	8.51	< 10	< 1	0.25	20	0.14
TR84-34-22	205 226	240 -----		0.6	1.43	94	< 10	< 0.5	6	11.85	< 0.5	21	51	151	3.70	< 10	1	0.04	< 10	0.38
TR84-34-22B	205 226	190 -----		0.8	1.27	80	10	< 0.5	4	12.75	0.5	64	72	257	3.87	< 10	< 1	0.04	< 10	0.47
TR84-34-28	205 226	495 -----		0.4	1.19	28	20	< 0.5	16	12.75	3.0	29	47	127	5.76	< 10	< 1	0.05	< 10	0.32

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Project : 09
Comments: ATTN: A. DOHERTY

Page Number : 1-B
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Certificate Date: 03-NOV-1998
Invoice No. : 19834556
P.O. Number :
Account : LIS

CERTIFICATE OF ANALYSIS

A9834556

SAMPLE	PREP		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn	Te
	CODE		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
TR84-12-01	205	226	190	3	0.01	5	< 10	8	< 2	1	10	< 0.01	< 10	< 10	3	< 10	40	< 0.1
TR84-14-01	205	226	85	23	< 0.01	3	60	4	4	< 1	3	< 0.01	< 10	< 10	1	< 10	40	< 0.1
TR84-14-02	205	226	85	5	0.35	7	360	6	< 2	5	85	0.07	< 10	< 10	24	< 10	24	< 0.1
TR84-14-03	205	226	710	67	< 0.01	50	730	132	52	9	81	< 0.01	< 10	< 10	32	490	286	52.0
TR84-34-22	205	226	530	3	< 0.01	18	530	< 2	< 2	2	86	0.08	< 10	< 10	15	< 10	24	< 0.1
TR84-34-22B	205	226	625	5	< 0.01	39	570	6	2	3	92	0.08	< 10	< 10	20	10	46	0.3
TR84-34-28	205	226	475	3	0.01	20	340	4	4	1	49	0.06	< 10	< 10	16	< 10	46	5.9

CERTIFICATION: