Geochemical and Geological Assessment Report on the "025" Claim Group, Atlin Mining Division, NWBC

NTS 104M9E & W

Latitude 59°34'30''N
Longitude 134°14'30''W

UTM 8V 542.4E 6602.2N

Owner/Author G.R. Thompson B.Sc. (hon)

November 21, 2000

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INTRODUCTION

The “025” claim group consists of 20 contiguous two post claim units along a prominent 6 km normal shear structure which trends 25°. G.R.Thompson discovered gold bearing epithermal breccia on the east shore of Tagish Lake in 1988 during a regional prospecting program. Since then, several kilometers of anomalous gold-silver-arsenic have been mapped to date.

The objective of the program this season was to gain knowledge on the character of mineralization and alteration and to obtain geochemical soil data for unexplored areas within the central and northern portions of the property. Twenty-two hand auger soils and seven rock samples were taken over a 5 km strike. Ten samples were selected from pre-1998 programs for petrology, fluid inclusion, infrared and scanning electron microscope studies.

LOCATION & ACCESS

The”**025”** claim group is located in Northwest British Columbia, Canada (Figure 1). NTS 104M9, UTM 8 V 542.3E 6602.1N, Latitude 59 degrees 34’30”N Longitude 134 degrees 14’ 30”W. The property is situated in the Atlin Mining Division, approximately 35 km west from the town of Atlin (Figures 2-4). The property is accessible by boat from Atlin, west to Atlin River-Graham Inlet then to Taku Arm of Tagish Lake, which, takes about a hour. Helicopters and float planes are also available in Atlin and takes about 20 minutes.

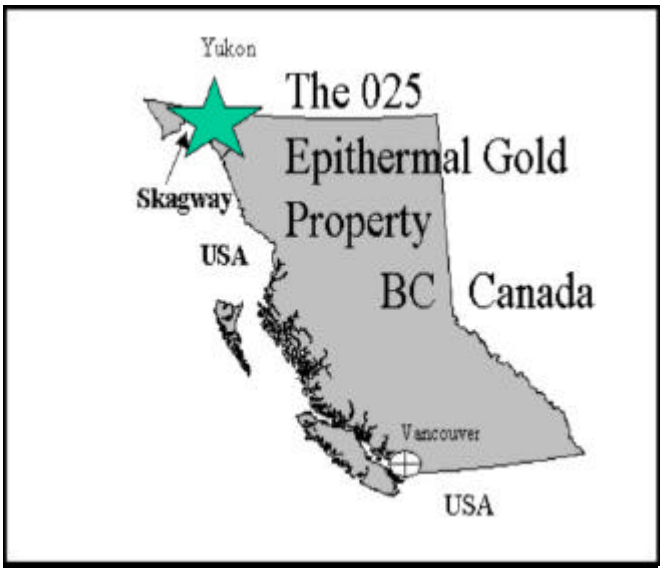
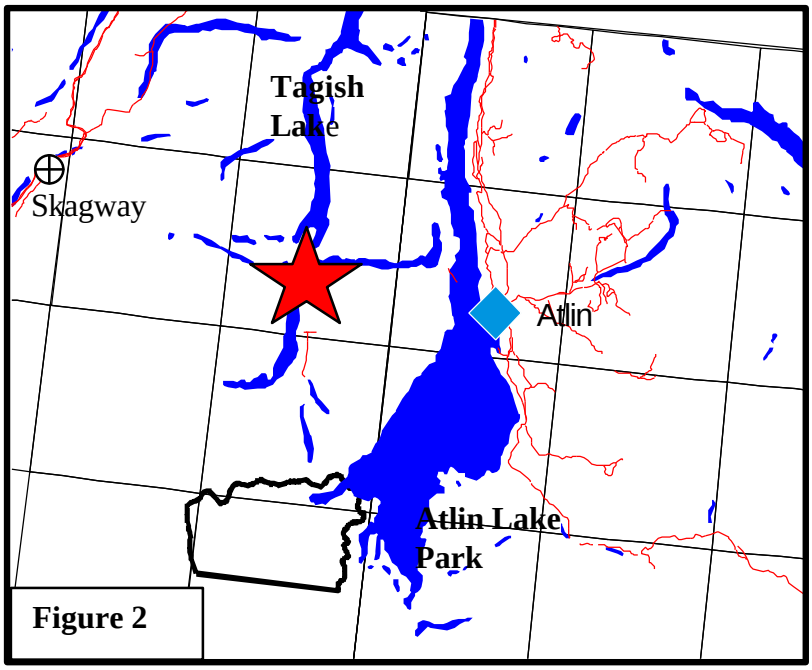

Yukon
The 025
Epithermal Gold
Property
Skagway
USA
BC Canada
Vancouver
USA

Figure 1


Tagish
Lake
Skagway
Atlin
Atlin Lake
Park
Figure 2

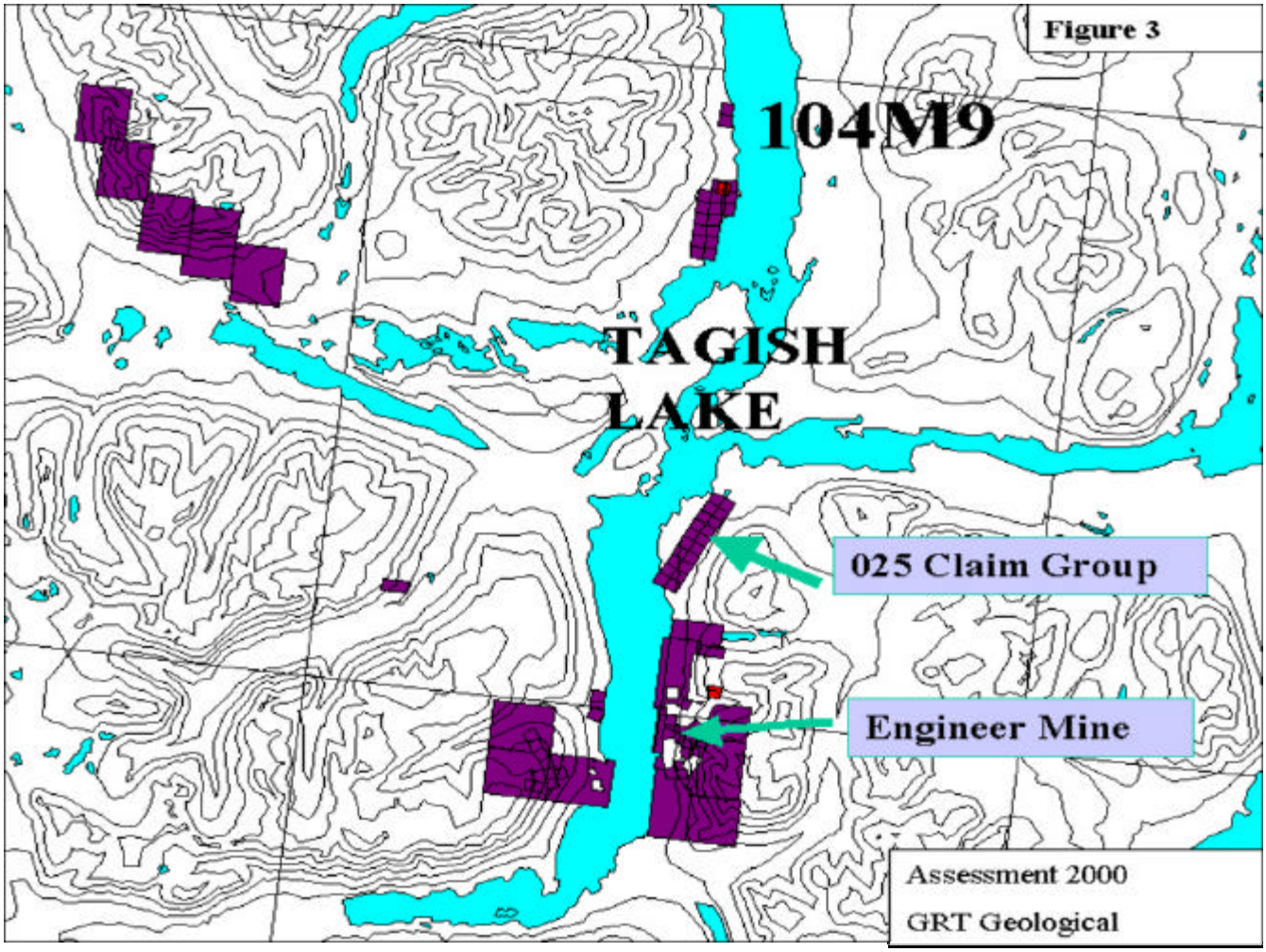


Figure 3
104M9
TAGISH
LAKE
025 Claim Group
Engineer Mine
Assessment 2000
GRT Geological

CLAIM INFORMATION

Table 1. The 025 claim group.

Claim Name	Tag Number	Tenure Number	Number of units	Expire Date
Gold A	680251M	358745	1	Aug.29,2003
Gold B	680252M	358746	1	Aug.29,2003
Gold C	680253M	358747	1	Aug.29,2003
Gold D	680254M	358748	1	Aug.29,2003
Gold E	680255M	358749	1	Aug.29,2003
Gold F	680256M	358750	1	Aug.29,2003
Gold G	680257M	358751	1	Aug.29,2003
Gold H	680258M	358752	1	Aug.29,2003
Gold I	680259M	358753	1	Aug.30, 2003
Gold J	680260M	358754	1	Aug.30, 2003
Gold K	680261M	358755	1	Aug.30, 2003
Gold L	680262M	358756	1	Aug.30, 2003
Gold M	680263M	358757	1	Aug.30, 2003
Gold N	680264M	358758	1	Aug.30, 2003
Gold O	680265M	358759	1	Aug.30, 2003
Gold P	680266M	358760	1	Aug.30, 2003
Gold Q	680267M	358761	1	Aug.30, 2003
Gold R	680269M	358762	1	Aug.30, 2003
Gold S	680270M	358763	1	Aug.30, 2003
Gold T	680268M	358764	1	Aug.30, 2003

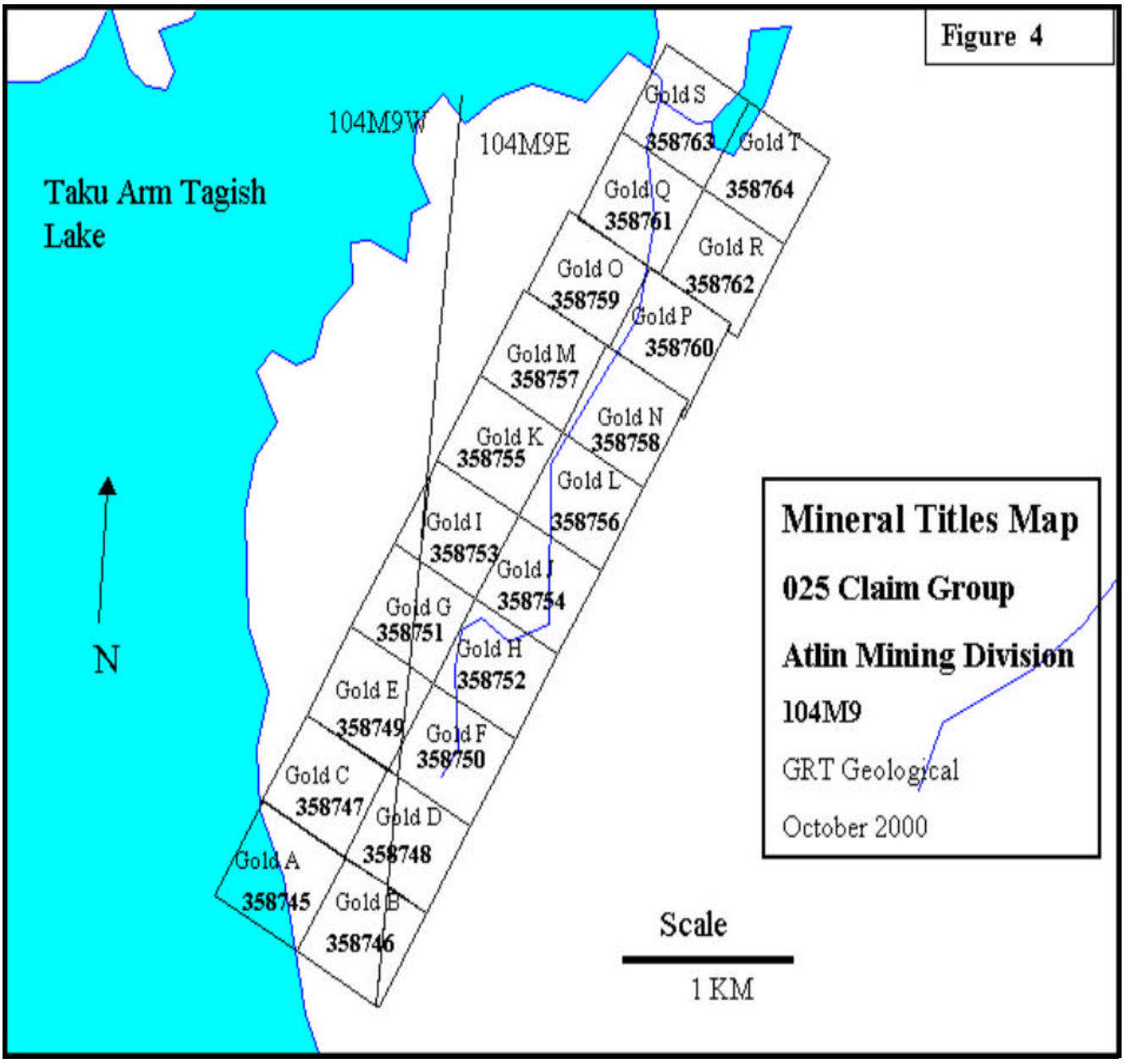


Figure 4
104M9W
104M9E
Taku Arm Tagish Lake
Gold S
358763
Gold T
358764
Gold Q
358761
Gold R
358762
Gold O
358759
Gold P
358760
Gold M
358757
Gold N
358758
Gold K
358755
Gold L
358756
Gold I
358753
Gold J
358754
Gold G
358751
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358752
Gold E
358749
Gold F
358750
Gold C
358747
Gold D
358748
Gold A
358745
Gold B
358746
N
Mineral Titles Map
025 Claim Group
Atlin Mining Division
104M9
GRT Geological
October 2000
Scale
1 KM

TOPOGRAPHY & VEGETATION

The claims lie within the flank of the Tagish Highlands. From Tagish Lake at an elevation of 650m (2151 ft.) undulating low to moderated relief rises to 840m (2700 ft.) with limited outcrop, swampy lakes , intermittent creeks and mature forest cover. Stands of Spruce, Pine, Poplar, balsam and shrubs of willow and alder are throughout the property (Figure 3 & 5).

PHYSIOGRAPHY, CLIMATE & GLACIATION

Taku Arm of Tagish Lake acts as one of the main drainage channels for the district. Two contrasting types of topography occur in the region; that of the Teslin Plateau (part of a larger physiographic region the Yukon Plateau, and roughly comparable to the Intermontane tectonic province), and the of the Tagish Highlands (part of the boundary ranges Physiographic region, and given character from the Coast Plutonic Complex). The Teslin Plateau is an extensively dissected and eroded plateau. Topography consists of irregularly distributed, rounded hill with variable elevations (local area with flat topped, uniform elevation). The valleys are wide, deep and steep walled , and typically U-shaped. The Tagish Highlands are rugged, consisting mainly of knife-like ridges, needle summits, and abruptly incising valleys where considerable snow and ice are seen through-out the entire year. The rivers and creeks generally open in may but may be as late as June. Warm summer weather is experienced for about four months, with June and July receiving almost continuous daylight. The mean daily temperature in July is no less than 14 degrees C. The month of July receives 10 to 13 days with measurable precipitation ; mean annual precipitation is 60 cm. In January the mean daily temperature is -15 C., with 14 to 17 days with measurable precipitation. During the Pleistocene epoch the Tagish Highlands became extensively glaciated, while the upperland part of the Teslin Plateau was effected to a lesser extent (Figure 5).

HISTORY AND PREVIOUS WORK

The Mass and Quantity claims were staked in 1988 by G.R.Thompson upon discovery of gold bearing quartz flooded argillite breccia on the east shore of Tagish Lake. From 1989-92 the property was under option to Golden Bee Minerals Inc, whom conducted geological mapping, trenching, petrographic studies, grid w/soil and rock

geochem. From 1992-97 G.R.Thompson conducted control grid, geological mapping, soil and rock geochemical surveys, S.P. geophysics, hand trenching and XRD Studies.

The **Main Zone** strikes for 360m having widths vary to 15m. Seventy-two rock samples returned an average of 3 g/t Au and 57 g/t Ag. Grades to date range up to 8.7 g/t Au, 1374 g/t Ag. An arsenic soil anomaly is centered within the southern portion of the main zone, which corresponds to the higher Au-Ag grades. The following are results from hand trenching and chip sampling.

- **89TR01- 5m @ 2.3g/t Au, 57 g/t Ag,**
- **89TR02- 4m @ 3 g/t Au, 9g/t Ag,**
- **96TR01- 4m @ 2.47g/t Au, 102g/t Ag,**
- **96TR02- 3m @ 2.5 g/t Au, 11 g/t Ag,**
- **96TR03- 6m @ 1.9g/tAu, 3.8g/t Ag.**

The **Bear-ox Zone** displays a 700 m long by up to 100 m wide arsenic, gold soil anomaly. Gold from soils have returned up to 17 600 ppb Au, with a 15m > 1000 ppb Au from 5 m stations and 3 m of > 10 000 ppb Au from 1m stations.

Trenching results are as follows:

- **91TR02- 6m @ 2.5 g/t Au, 5.0 g/t Ag.**
- **97TR01- 11m @ 1.3 g/t Au, 2.0 g/t Ag.**

Weak S.P. geophysical anomalies correspond with some of these geochemical results and several moderated S.P anomalies were identified outside the fault zone. XRD analysis has identified Samarium Telluride from pyritic-clay associated with anomalous gold. Several drill targets have been identified.

The **Barny Zone** displays anomalous Au, Ag, As, and Sb values for a strike of 1 km. Breccia and stockwork qtz-carbonate zones are associated with a high level granodiorite porphyry, cross faults and overturned folds.

Early workings on the property date back to early-mid 1900's. Many old shallow hand trenches are evident along the structure, but the operators are unknown, and no government records are available. Activity in the area dates back to 1898 when White Pass Engineer's made their way to the placer camps of Atlin and Dawson City. Visible gold was discovered of the shore of Tagish Lake, which became the Engineer Mine, located 6 km south of the 025 property. Operation of the Engineer Mine was from 1913 to 1952, which produced 18,058 oz of gold and 8,450 oz of silver from 17,157 tons

milled. T.R. Bultman, conducted a Ph.D., thesis on the geology and tectonic history of the Whitehorse Trough region (unpublished, 1979).

The BCDM conducted a 4 year (1987-90) regional geological and geochemical Program. BCDM Sample #88mm5-3 taken from the Main zone returned 5.2 g/t Au and a sample contained visible gold in quartz flooded argillite breccia.

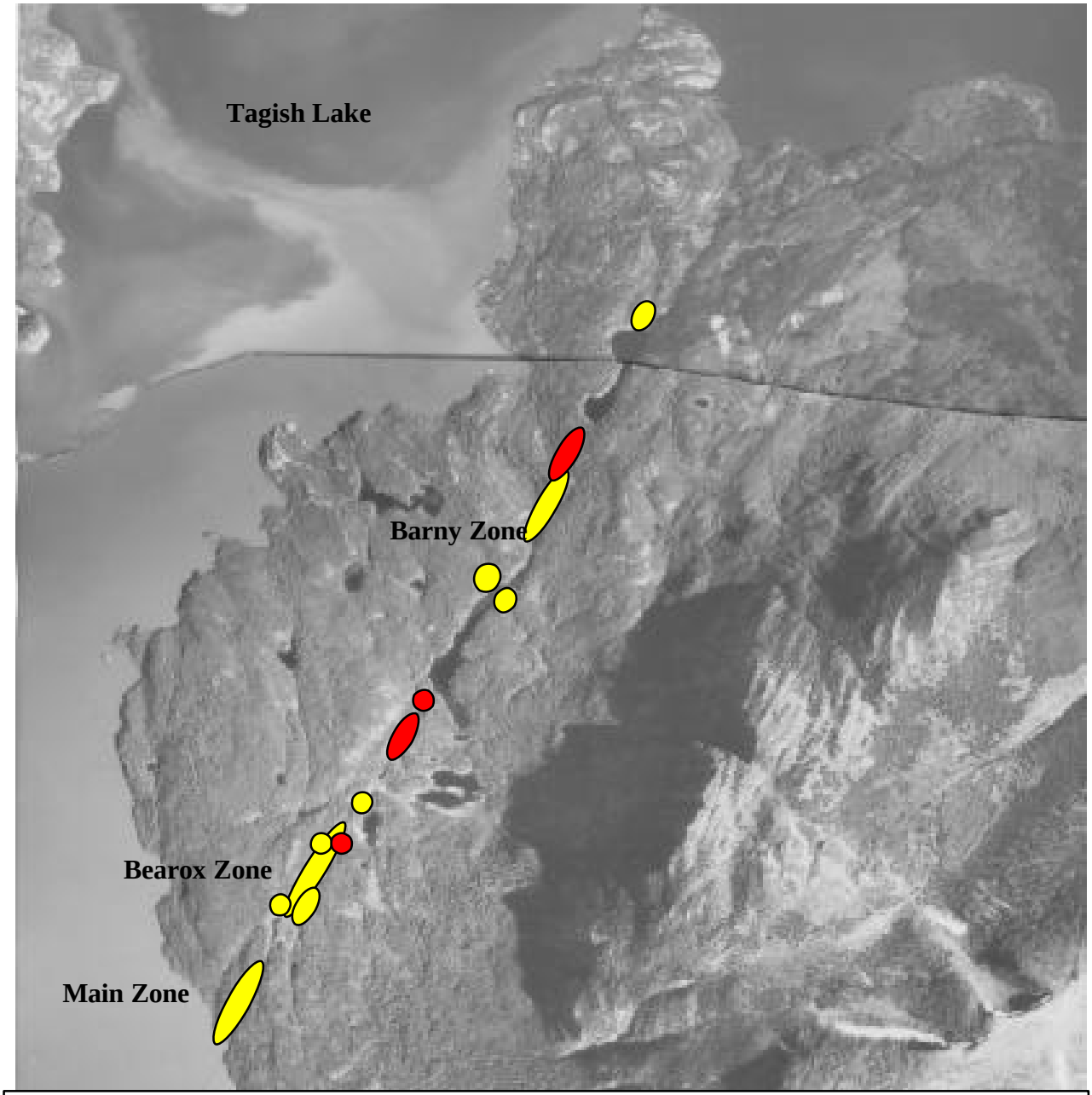


Figure 5. Aerial Photograph of the 025 Structures and known areas of anomalous Au, Ag, As and Sb values in yellow, red are new areas of anomalous Au.

REGIONAL GEOLOGY

The 025 claim group lies within the Whitehorse Trough of the Northwest trending Intermontane tectonic province. This area is bounded by two major long-lived deep-seated faults (Figure 6). The 025 claim group covers a splay fault off the sub-vertical Llewellyn Fault system. The Llewellyn Fault separates the Whitehorse Trough from the Coast Crystalline Complex (Nisling Assemblage). The Nisling Assemblage is a displaced continental margin package, polydeformed to four phases of deformation (Mihalynuk and Mountjoy, 1989). Probable upper Proterozoic to Paleozoic in age. Protoliths are varied, mainly pelitic but also volcanic protoliths and carbonates (Mihalynuk and Mountjoy, 1989). The Cache Creek group is an oceanic assemblage comprised of basalts , massive carbonates and imbricated altered ultramafic slices, and mantel tectonites. In parts, the Whitehorse trough blankets the Nisling and Cache Creek terranes as an overlap. The oldest rocks in the Whitehorse Trough are K-spar megacrystic hornblende granodiorite, age constraints to 212-220 Ma, accompanied by hornblende and pyroxene leucogabbro. Overlain by a thick blanket of polymictic boulder conglomerate, with clasts of the 215 Ma K-spar megacrystic granodiorite in the conglomerate and ferric-pyroxene breccia and basalt typical lithology of the Stuhini Group volcanic rocks (Mihalynuk and Mountjoy, 1989). The Whitehorse trough has under gone lateral shortening by some 45 percent (Mihalynuk et al., 1990). This has resulted in closed to open, symmetric to asymmetric folds with wave lengths ranging up to 10 km. Folding in the Laberge group is particularly well developed (Mihalynuk et al., 1990) (Figure 6 & 7).

The Stuhini Group forms a 3 km thick pile of pillow basalts, breccias, intercalated argillites and volcanic clastics, topping them forming a cap are the upper Triassic Carbonates correlated with the Sinwa Formation which sits on top of the Stuhini Group succession (Mihalynuk and Mountjoy, 1989). Unconformably overlying those in some places and structurally overlying them in most places are the rocks of the Laberge Group (Mihalynuk and Mountjoy, 1989) (Figure 6).

The Laberge group rocks are dominated by feldspathic-graywacke , argillite and conglomerate of lower to middle Jurassic. The Laberge Group sediments began the early depositional stages as evidence by intraformational angular unconformaties associated

conglomerated in strata of probable Pliensbachian age (Mihalynuk et al, 1990). Slump folds are common on the hand sample scale to hillside. Later axial-surface cleavages bare no relations to these early-form slump-folds. Folds produced during this deformation have axial planer (or near Planer) surfaces that consistently trend northwest and most commonly dip steeply both east and west (Mihalynuk et al., 1990). Axial cleavages are well developed in argillites, but are rare in massive wackes. Major folds are up-right, gentle to close, and gently plunging (Mihalynuk et al., 1990). Many of the units within the Laberge Group Sediments have limited facies-dependent distribution which results from their depositional environment, interpreted as one of coalescin subaqueous turbiditic fans (Bultman, 1979).

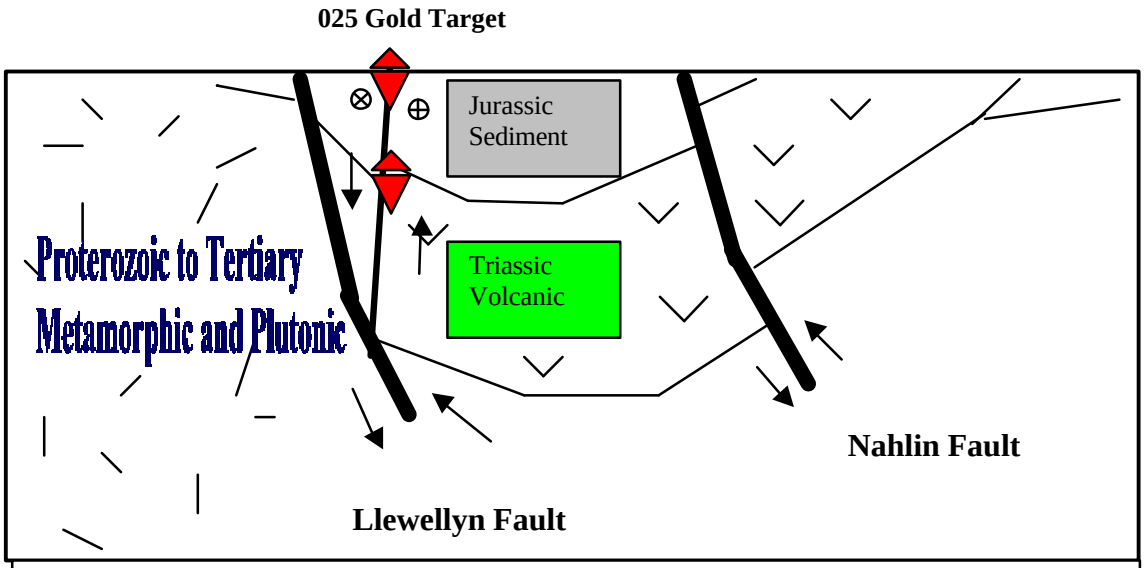


Figure 6. Geological Cross Section, modified after Mihalynuk et al 1989.

LOCAL GEOLOGY

The 025 claim group geology is dominated by lower to middle Jurassic Laberge Group sediments, consisting of interbedded argillaceous siltstones, feldspathic-wackes, siliciclastics and conglomerates. A chloritic hornblende granodiorite porphyry intrusive outcrop is located on the east side and footwall of the 025 srtucture. The main structure within the claim group is a 6 km long N025E trending sub-vertical west dipping normal fault. The 025 fault is splay off the Llewelyn fault and has many cross faults trending north to northwest. The 025 Claim Group straddle this structure by 500m on both sides. Marsh lands cover many of the structures, but their lineaments are obvious from the air photo (Figure 5). The Laberge group rocks are underlain by Triassic Stuhini group volcanics. The contact between the Laberge and Stuhini group rocks is estimated at 500 – 800 m depth.

Legend to Figure 7, Geology

Lower Jurassic Laberge Group

-lJL- Undivided wacke, argillite and siltstone.

-lJLs- Siliciclastic: > 100 m thick; indurated siltstones to quartz-rich lithic wackes; cm-scale trough cross-stratification; well-layered; well-indurated; rusty weathering.

-lJLa- Argillites undivided or mixed

-lJLa1-Rhythmically bedded argillites; form successions 10-100 m thick; 2-5 cm beds, good normal grading; bioturbated tops and feeding trails especially prominent in < 10 cm calcareous beds; very sparce cobbles of various protoliths.

-lJLa2-Irregularly and thinly bedded argillites; as recessive sets between wacke beds; dark brown to black 1-30 mm; may be silty; rusty weathering.

-lJLg- Greywacke; feldspsar < lithic grains; very fine sand to granules; < 5 % mafic minerals, especially hornblende; clacareous with bulbous concretions m's long; beds massive or gradded, cm's to 10 m+ thick; grey to green and orange weathering; resistant.

-lJlc- Conglomerates; generally < 200 m thick. Clasts can include volcanic, sedimentary and intrusive rock types. Typically clast-supported with a coarse wacke matrix, or
1-30 % clasts floating in an argillite matrix. Martix-supported and intraformational conglomerates are also common.

-lJLq- Quartz subarenites; sandstones and granule conglomerates comprised largely of quartz with lesser feldspar. Altered biotie flakes are common accessories.

Figure 7. Geology Map of the 025 Project Area, Open File 1997-1, Mihalynuk et al. 1997

LITHOLOGY:

Argillites are divided into two major types, *Irregular, thinly interbeded* brown to black argillites variably millimeters to decimeters thick, which occur as sets within wacke successions. *Rhymically bedded* argillites form low in the stratigraphy, 10 - 100 meters thick. Beds are 2 to 5 cm thick and grade from silty, light-colored bases to dark argillaceous tops (Mihalynuk and Mountjoy, 1990).

Greywackes are the dominant rock type within the Laberge group. Feldspathic wackes are the most abundant type typically in massive or well-bedded units with well defined normal grading. Beds range from 5 cm to > 10 m. The weathering color of feldspathic wackes is a greenish-gray to orange and are resistant compared to the adjacent argillite beds that are rusty-brown to black. Lithic-rich wacke beds are 10 to 100 cm thick and are interbedded with argilltes. Lithic-rich wackes are finner and less variable in grain size than the feldspathic or quartz-rich wacke (Mihalynuk and Mountjoy, 1990).

Conglomerate are 10 to > 200 meters in thickness. Volcanic and intrusive clasts domintate the lower portion whereas metamorphic fragments become more abundant upwards. Metamorphic clasts, in order of abundance, include muscovite-biotite schists and phyllites, chlorite-muscovite schists, amphibolitic gneisses and rare marble. Volcanic clasts include pyroxene and feldspar-porphyritic varieties which have a probable source from hydrothermally metamorphosed volcaniclastic succession, aphanitic mafic to felsic. Both matrix and clast-supported conclomerates are common. Intrusive boulders up to 1.2 m diameter, most commonly < 15 cm (Mihalynuk and Mountjoy, 1990)

STUHINI GROUP

Within the southern portion of 104M8 a contiuous section of the Stuhini group sediments and volcanic rocks displays units that can be correlated for tens of kilometers. The entire package represents a transition from coarse terrigenous sediments to submarine mafic volcanics. As the volcanic piles built, they became more felsic and less voluminous. At the end of volcanism, epiclastic and reefal carbonate deposition covered and preserved the volcanic piles. The culmination of carbonate deposition marks the top of the Stuhini strata, (Mihalynuk and Mountjoy, 1990).

STRUCTURE

The 025° structure is a prominent 6 km long, up to 100 m wide, normal strike slip dip-slip fault (Figure 5 &7). Faulting within the 025 structure is complex with many structures trending north-south to northwest and northeast. An overturned fold lies between two northwest trending vertical dipping faults, juxtaposed to the main 025 structure which is evident on geology and aerial maps. Folds are open to isoclinal with the axial plane of folds east of the 025 structure trending northwest with a steep southwest dip, while the axial plane of folds west of the 025 structure trend north to west-north-west. A shallow northeast dipping thrust fault is located near the north end of the 025 structure.

EXPLORATION

Assessment work was conducted on the 025 claim group from August 10th to August 27th. Two men accessed the property from Atlin via Jet boat (1.2hrs each way). Atlin was used for food and accommodation, since only a few days were spent on the property. Twenty-two soil and seven rock samples were taken over a 5km strike (Figures 8-13). Soils were taken by hand auger from 0.3m to 2.5 m depth, along short lines normal to the 25° trending structure. One to three soils were taken per-line at 20 m stations and 200-300m line spacing (Figures 8-13). Rock samples were taken as grab or 1-2 chips. The rocks and soils were sent to ALS Chemex Labs in North Vancouver for preparation geochemical analysis (appendix 1)

Ten rock hand samples numbered 801 – 810, were selected from samples collected on the 025 Main zone from 1988- 1997 (Figures 8 & 9). The 10 had samples were cut and made into polished thin sections for petrographic, fluid inclusion and scanning electron microscope studies. The 801 – 810 rock samples were analyzed by PIMA infrared spectroscopy and subjected to a HF-Sodium Nitrate test (K-feldspar staining)(Figure 19). A boulder sized sample from the discovery outcrop Main zone was cut into a cubic hand sample (Figure 20).

Soil geochemical data from pre-1998 (Bearox Zone) were used to determine correlation coefficients R^2 values for Au and pathfinder elements (Table 2 & 5).

Figure 8

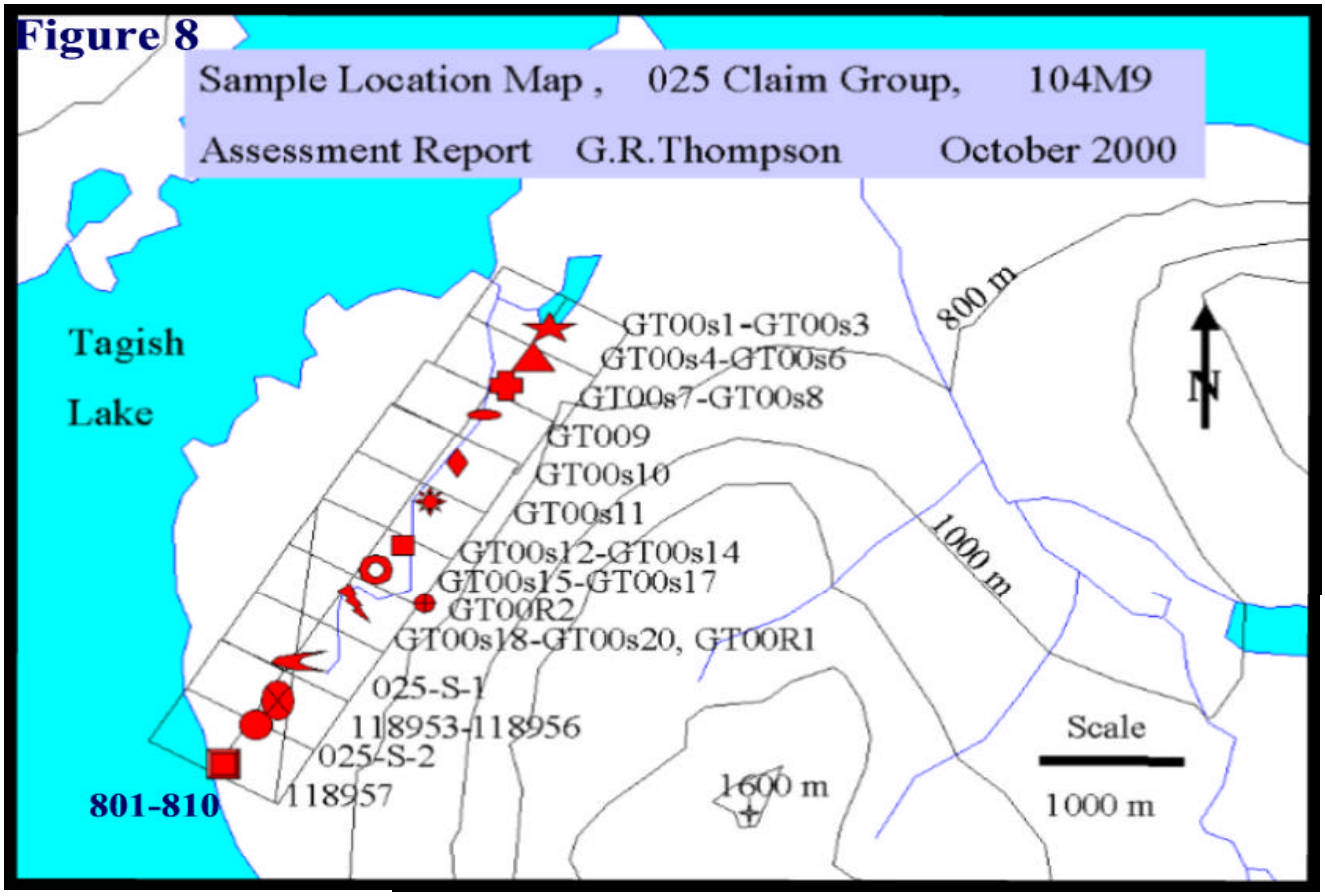


Figure 9

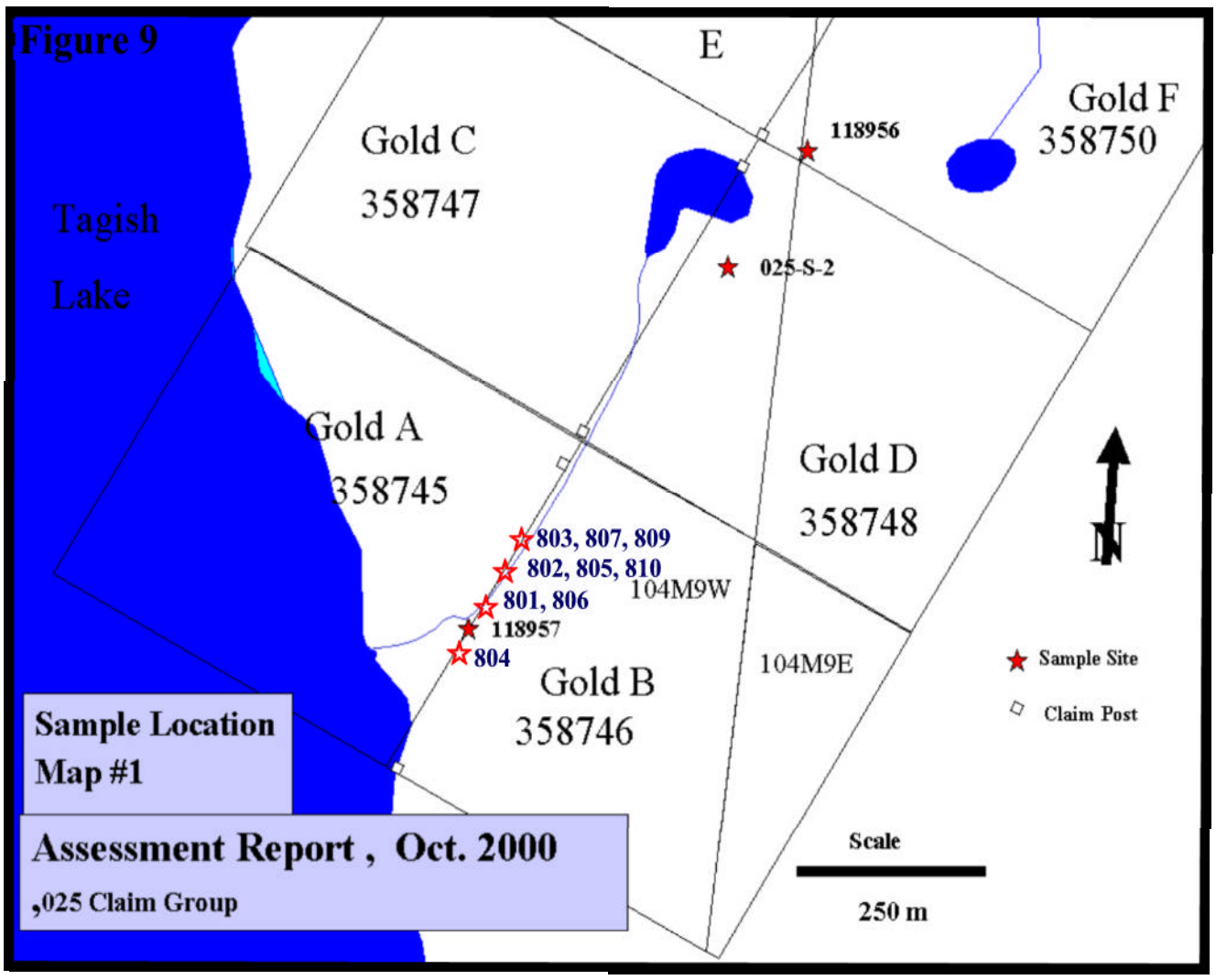


Figure 10

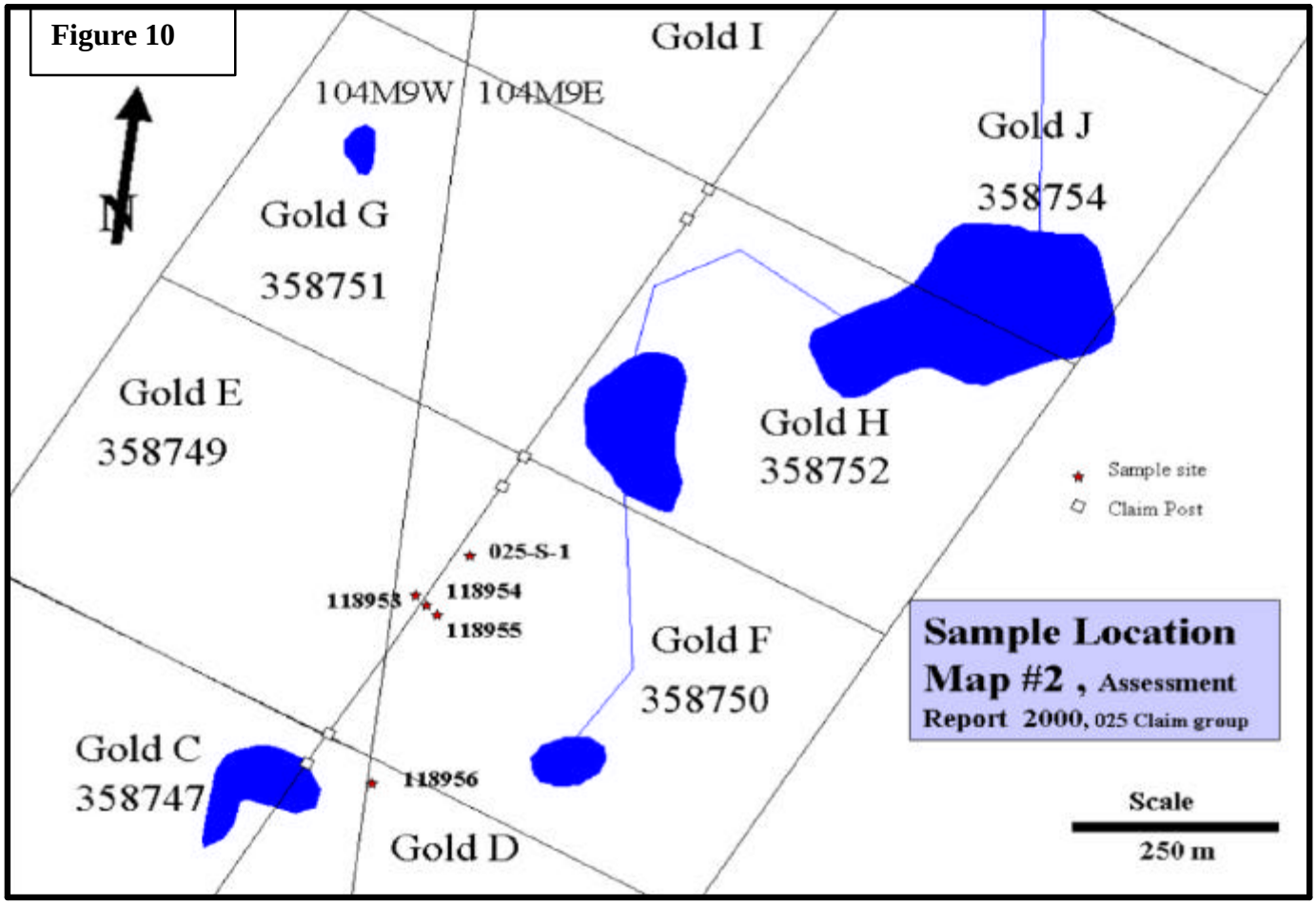


Figure 11

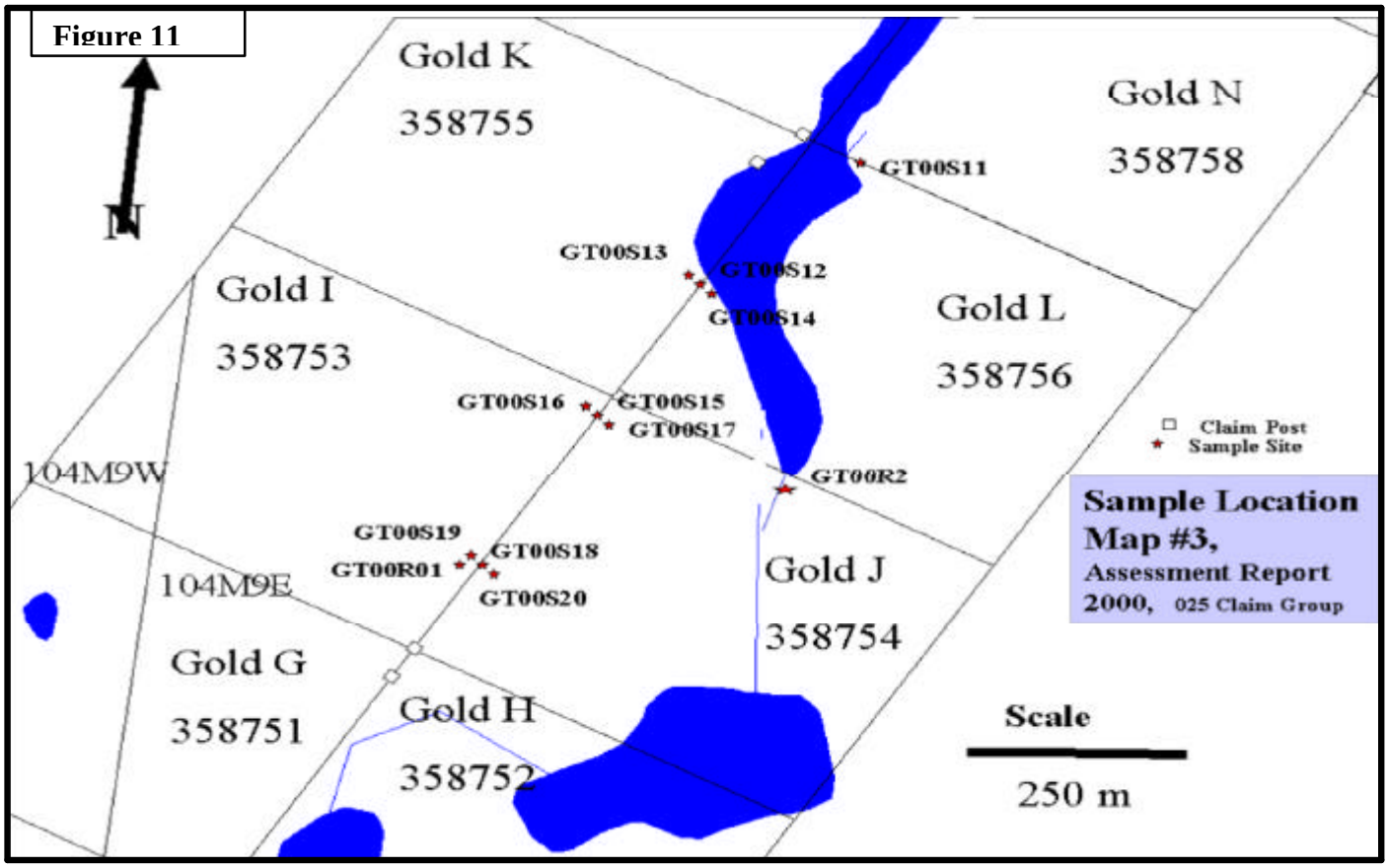


Figure 12

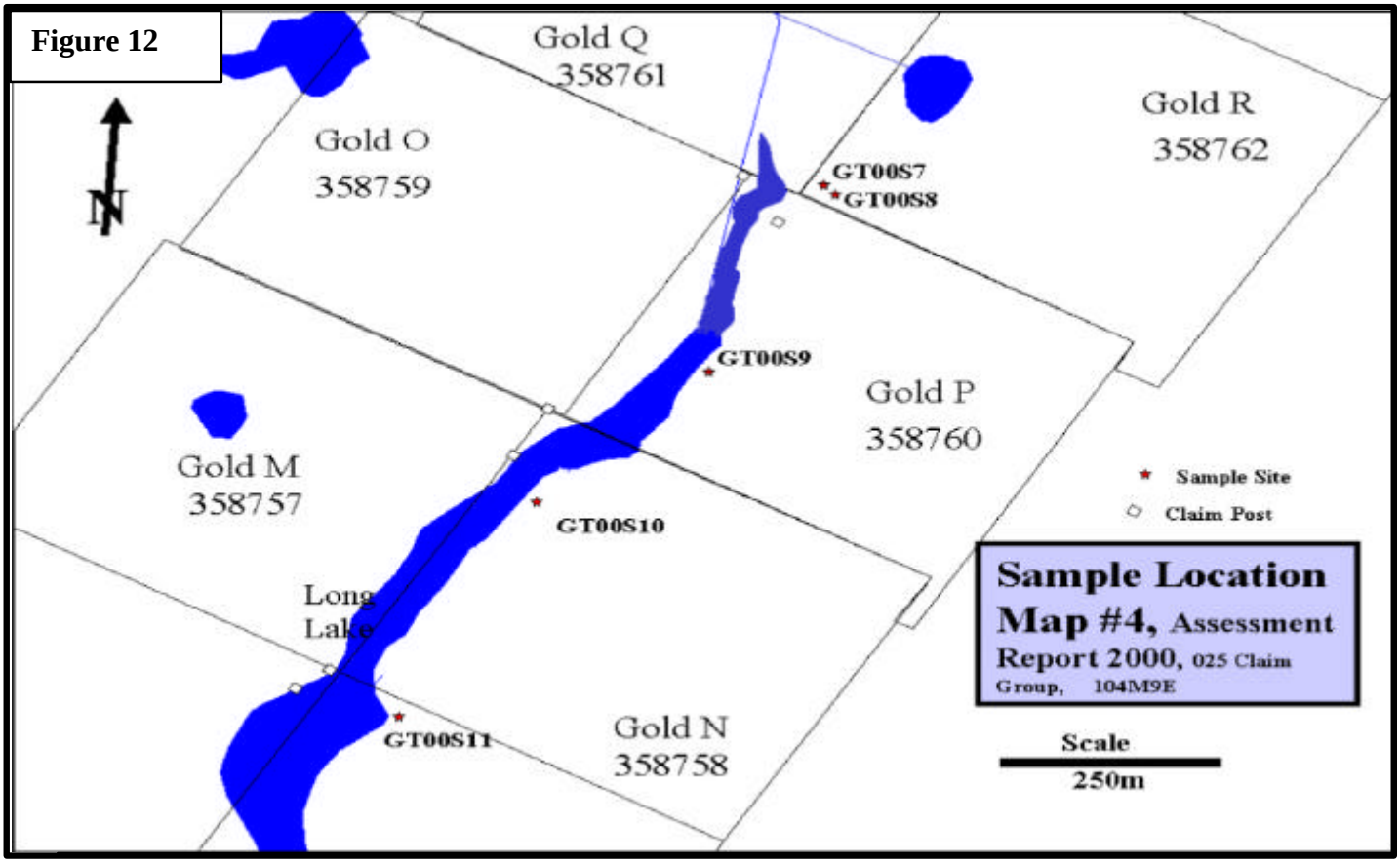
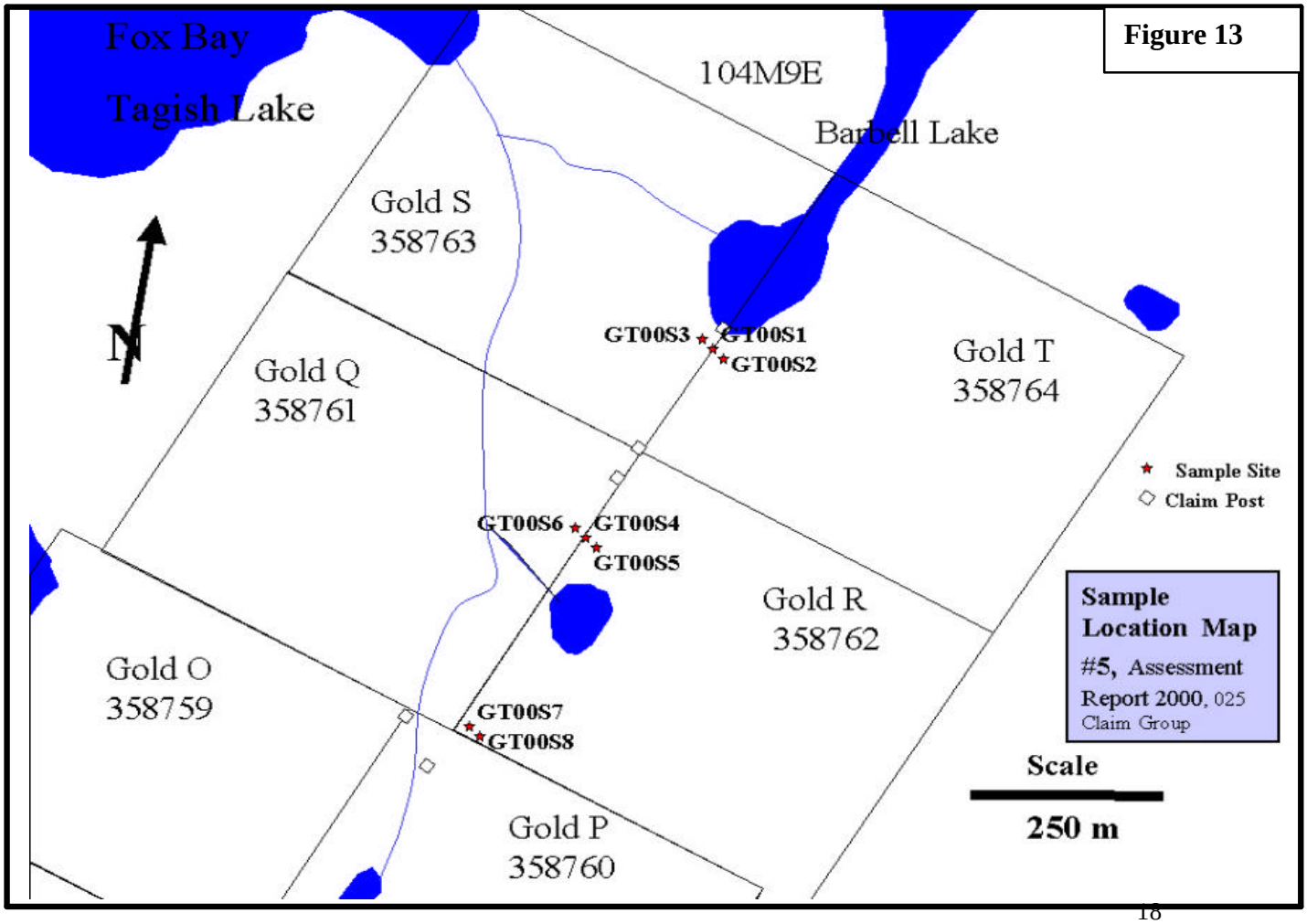


Figure 13



GEOCHEMISTRY

Background values for gold and arsenic were determined from the BCDM's regional program in the Tagish Lake area (Mihalynuk et al.1988). Anomalous values were set to be > 19 ppb, > 117 ppm, > 30 ppm and > 0.4 ppm for Au, As, Sb and Ag respectively.

Twenty nine samples were submitted to ALS Chemex Laboratory in North Vancouver. Soil samples were prepared to –80 mesh while rock samples were prepared to –150 mesh. Samples were analyzed using 32 element ICP aqua regia digestion charge. Gold values were determined by fire assay using atomic absorption spectra (Table 3 & appendix 1).

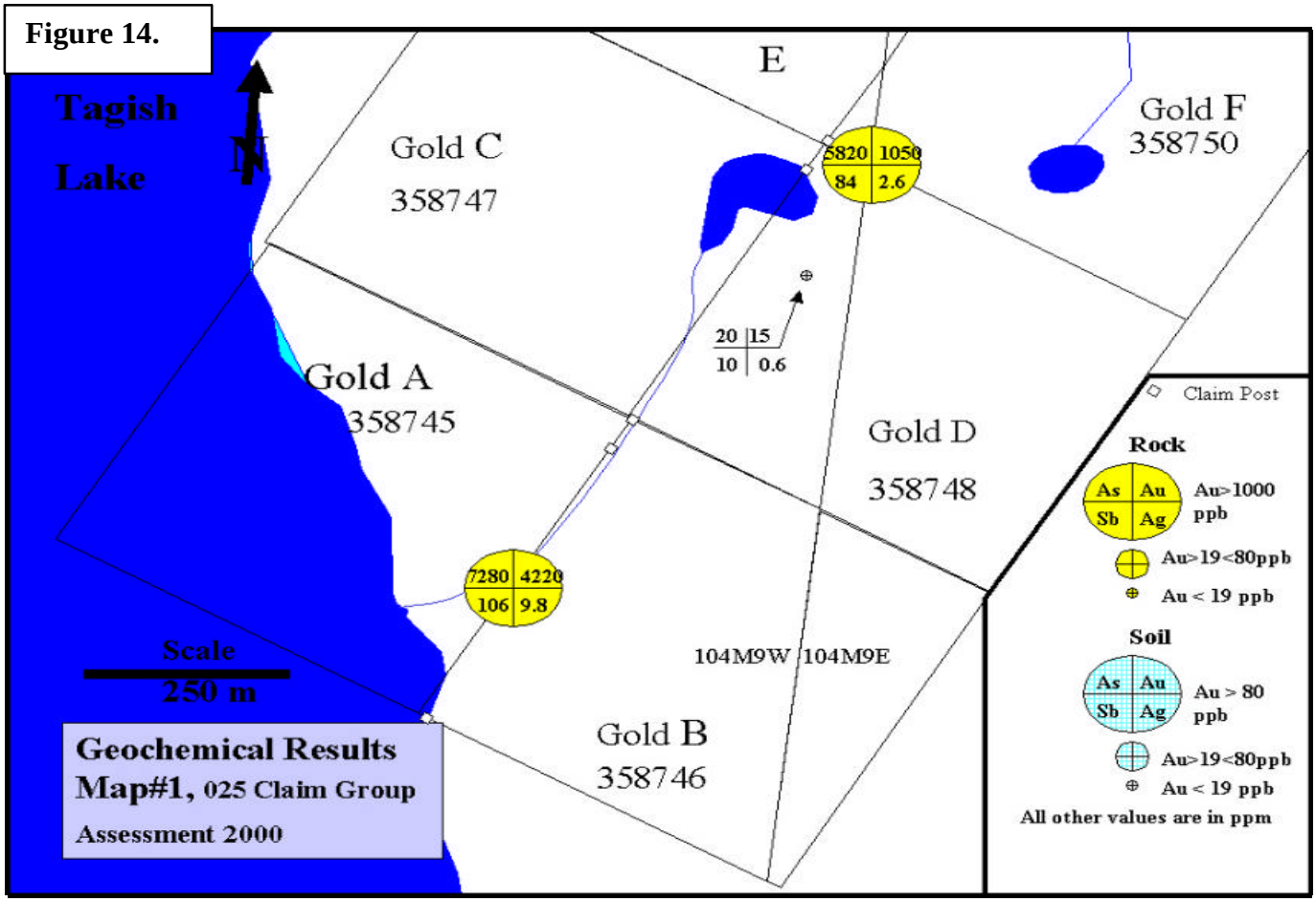
The correlation coefficients were obtained using excel R^2 plots. Soil geochemical results from 200 samples (appendix 4) on the Bearoz Zone pre-1998 were analyzed. Positive correlations exists between Au/As (0.63), Au/Cu (0.64) and Au/Sb (0.56). The strongest correlation exists between As/Sb (0.74), (Table 2)

Table 2. Correlation coefficients, n=200, Bear-ox zone.

	Au ppb	Ag ppm	As ppm	Sb ppm	Cu ppm	Zn ppm	Mo ppm	Ba ppm
Au	1							
Ag	0.34	1						
As	**0.63**	0.30	1					
Sb	**0.56**	0.26	**0.74**	1				
Cu	**0.64**	0.48	0.53	0.49	1			
Zn	-0.19	-0.80	-0.031	-0.25	-0.11	1		
Mo	0.05	0.02	0.35	0.25	0.31	0	1	
Ba	-0.20	-0.09	-0.41	-0.26	-0.4	0.39	-0.33	1
Pb	0.21	0.12	0.44	0.39	0.5	0.09	0.36	-0.31
Ca%	0.44	0.45	0.47	0.39	0.41	-0.16	-0.11	-0.13

A summary of the geochemical results for 2000 are shown in Table 3. From the 22 soils samples, 9 are considered anomalous for gold, with a high of 140 ppb Au. Four of the 22 soils were anomalous in silver with a high of 0.6 ppm, while six were anomalous in arsenic with a high of 2020 ppm. From the seven rock samples taken, 5 are anomalous in Au, Ag and As, with highs of 4220 ppb Au, 9.8 ppm Ag and >10000 ppm As. A complete list of the assay results and sample descriptions are given in Table 4. Geochemical results for (Au-Ag-As-Sb) are ploted on maps (Figures 14-18) below.

Figure 14.


Tagish Lake
N
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Gold C
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Gold F
358750
5820 1050
84 2.6
20 15
10 0.6
Gold A
358745
Gold D
358748
7280 4220
106 9.8
104M9W 104M9E
Gold B
358746
Scale
250 m
Geochemical Results
Map#1, 025 Claim Group
Assessment 2000
Claim Post
Rock
As Au
Sb Ag
Au>1000 ppb
Au>19<80ppb
Au < 19 ppb
Soil
Au > 80 ppb
Au>19<80ppb
Au < 19 ppb
All other values are in ppm

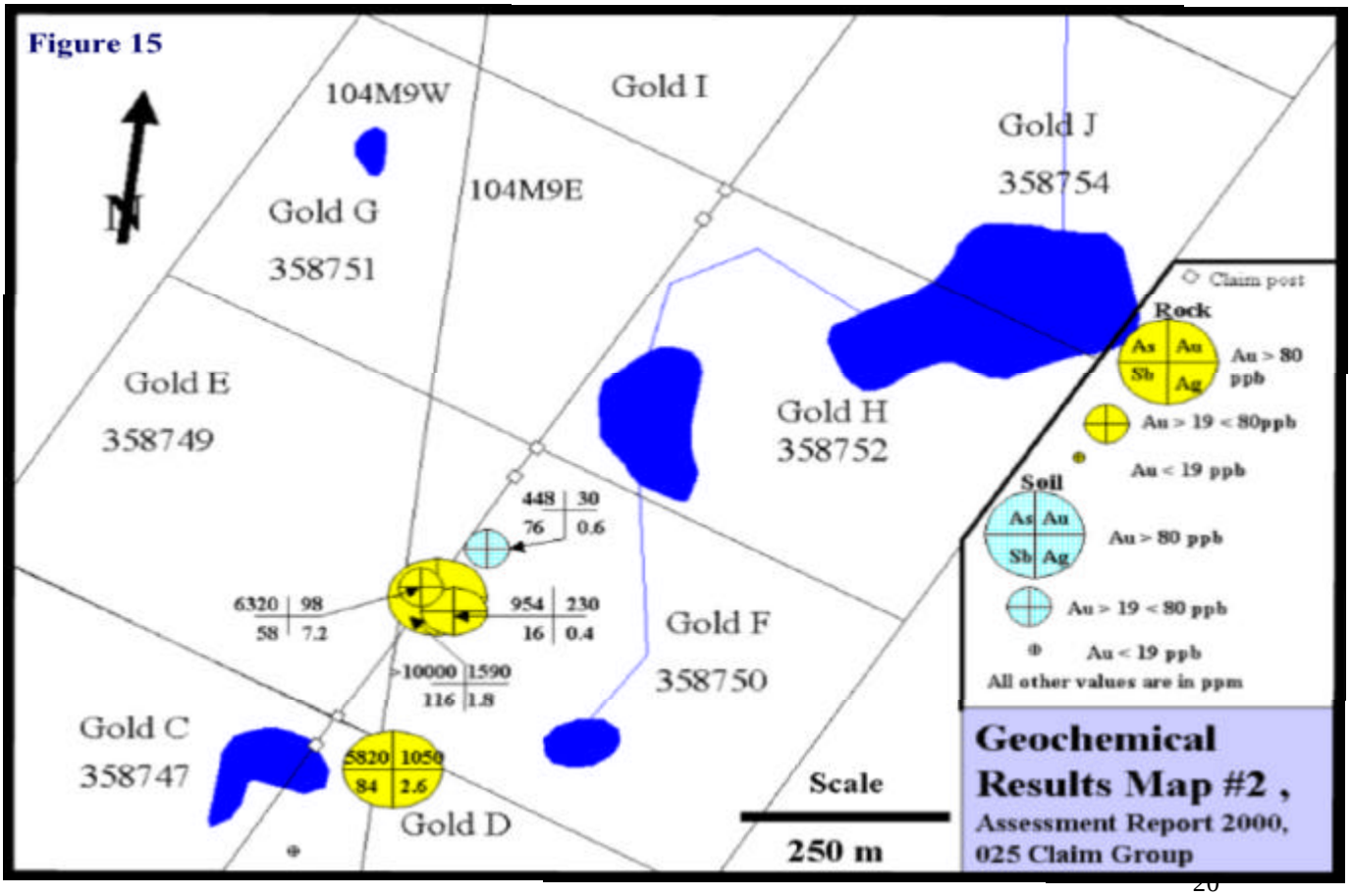
Figure 15
N
104M9W
Gold I
Gold J
358754
Gold G
358751
104M9E
Gold E
358749
Gold H
358752
448 30
76 0.6
6320 98
58 7.2
954 230
16 0.4
>10000 1590
116 1.8
Gold F
358750
Gold C
358747
5820 1050
84 2.6
Gold D
Scale
250 m
Claim post
Rock
As Au
Sb Ag
Au > 80 ppb
Au > 19 < 80ppb
Au < 19 ppb
Soil
Au > 80 ppb
Au > 19 < 80 ppb
Au < 19 ppb
All other values are in ppm
Geochemical Results Map #2 ,
Assessment Report 2000,
025 Claim Group

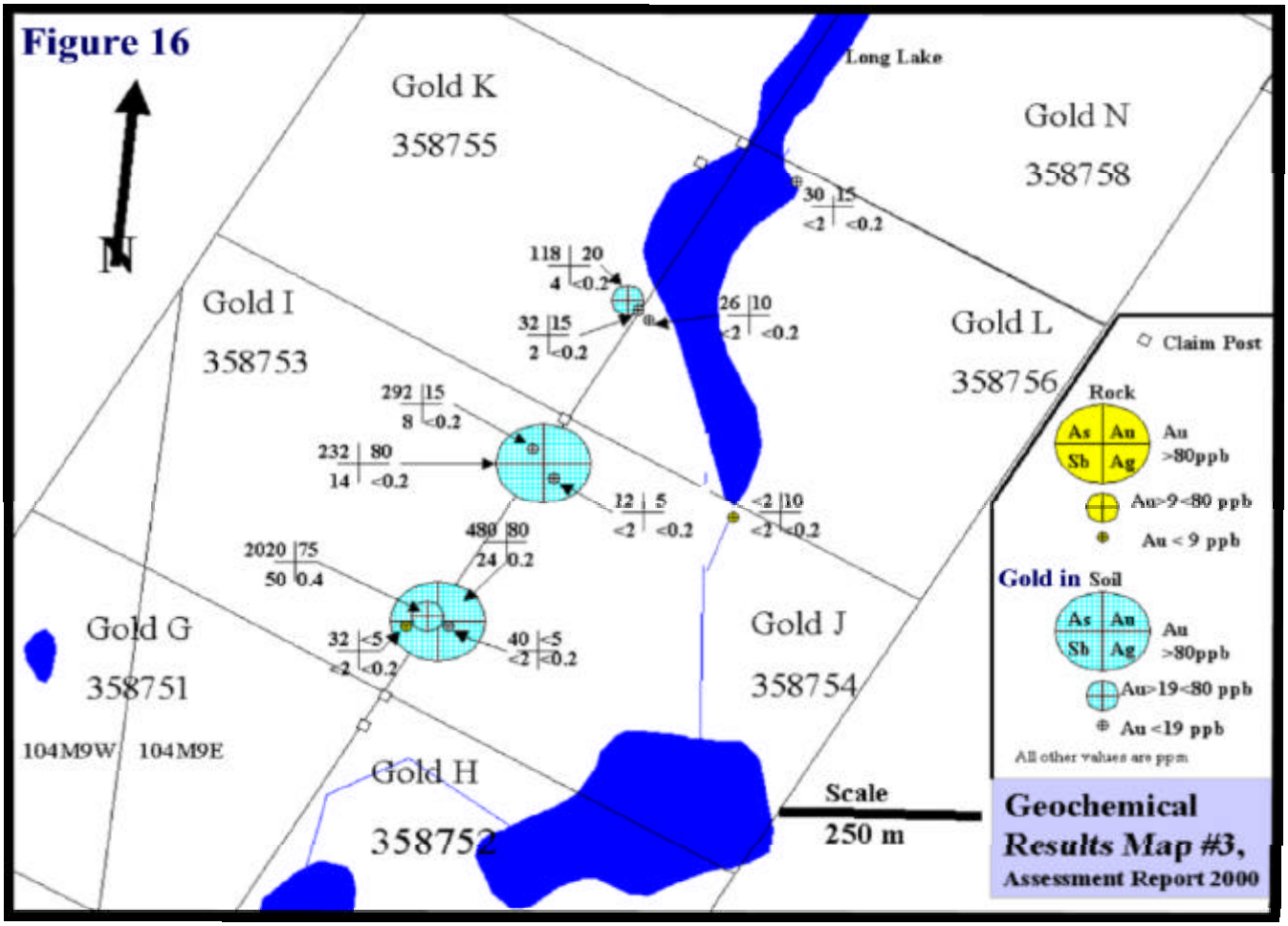
Figure 16
N
Gold K
358755
Long Lake
Gold N
358758
Gold I
358753
Gold L
358756
Gold G
358751
Gold J
358754
Gold H
358752
104M9W
104M9E
30 | 15
<2 | <0.2
118 | 20
4 | <0.2
32 | 15
2 | <0.2
26 | 10
<2 | <0.2
292 | 15
8 | <0.2
232 | 80
14 | <0.2
12 | 5
<2 | <0.2
<2 | 10
<2 | <0.2
480 | 80
24 | 0.2
2020 | 75
50 | 0.4
32 | <5
<2 | <0.2
40 | <5
<2 | <0.2
Scale
250 m
Claim Post
Rock
As | Au
Sb | Ag
Au >80ppb
Au>9<80 ppb
Au < 9 ppb
Gold in Soil
As | Au
Sb | Ag
Au >80ppb
Au>19<80 ppb
Au <19 ppb
All other values are ppm
Geochemical Results Map #3, Assessment Report 2000

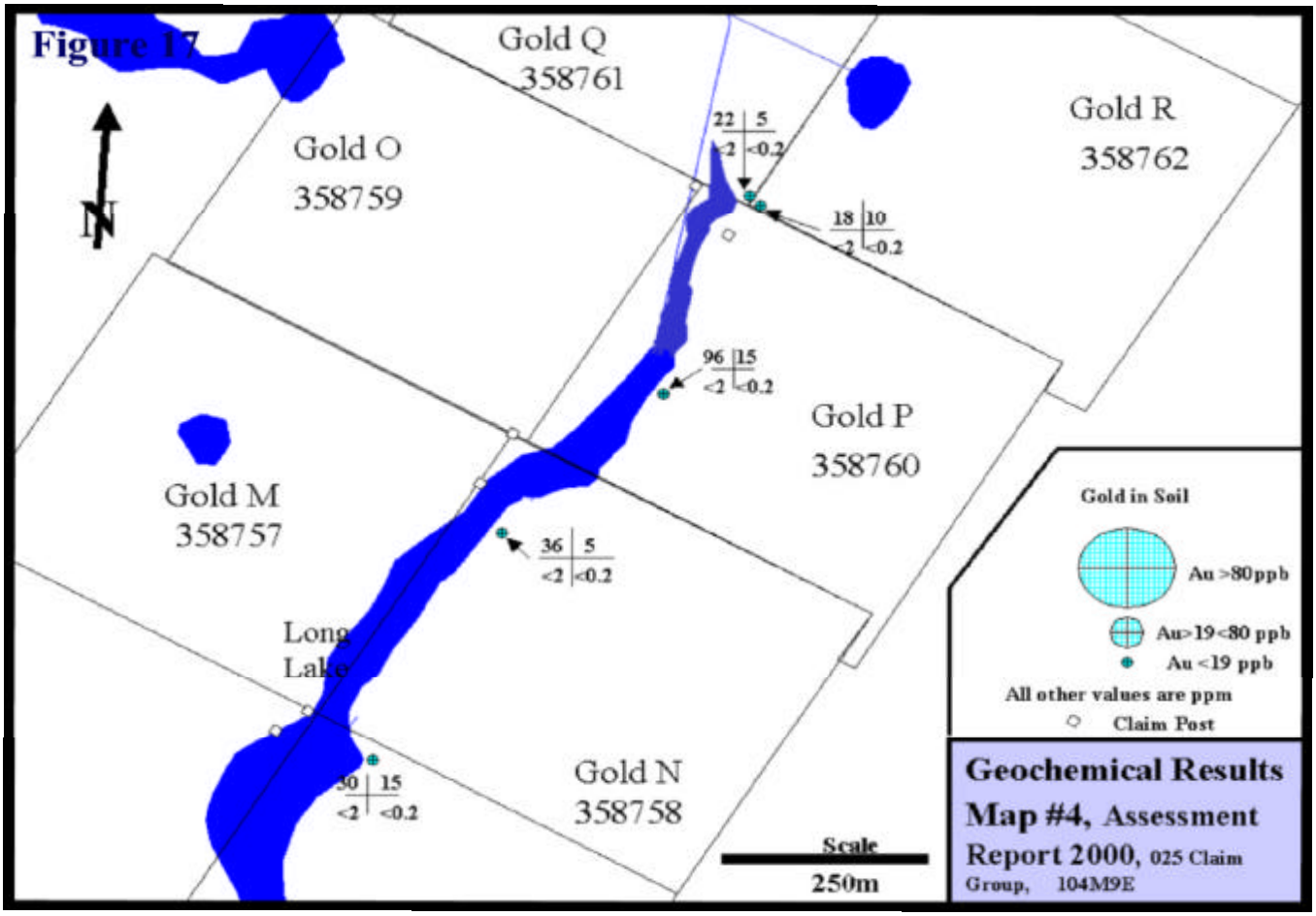
Figure 17
N
Gold Q
358761
Gold R
358762
Gold O
358759
Gold P
358760
Gold M
358757
Long Lake
Gold N
358758
22 | 5
<2 | <0.2
18 | 10
<2 | <0.2
96 | 15
<2 | <0.2
36 | 5
<2 | <0.2
30 | 15
<2 | <0.2
Scale
250m
Gold in Soil
Au >80ppb
Au>19<80 ppb
Au <19 ppb
All other values are ppm
Claim Post
Geochemical Results Map #4, Assessment Report 2000, 025 Claim Group, 104M9E

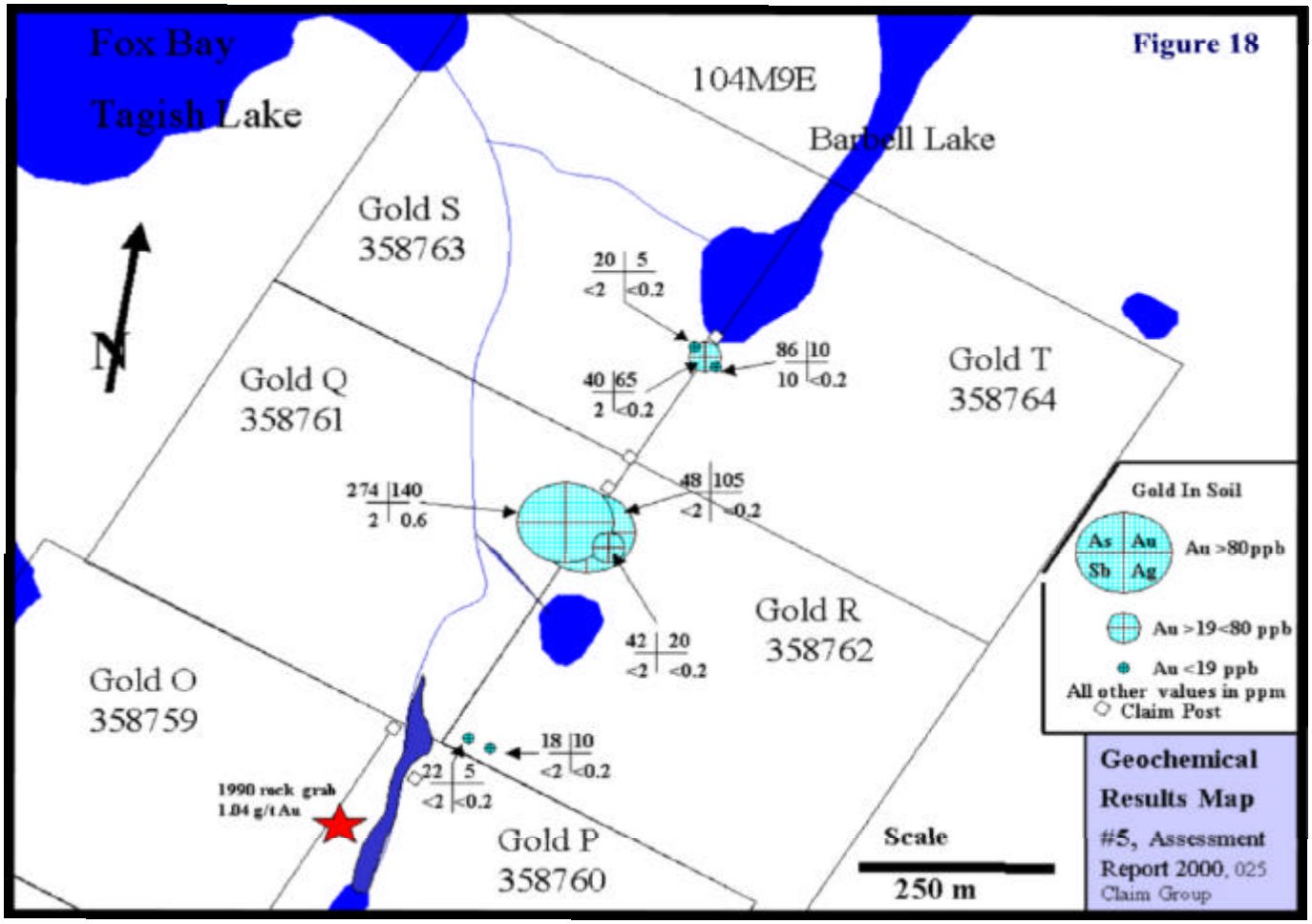

Table 3. Summary of Geochemical Results

Geochemical Summary 025 Assessment 2000			
From 22 Soil Samples			
Au	> 19 ppb	>= 80 ppb	High ppb
	9	4	140
Ag	> 0.4 ppm	> 2 ppm	High ppm
	4	0	0.6
As	> 117 ppm	>240 ppm	High ppm
	6	5	2020
From 7 Rock samples			
Au	> 19 ppb	>= 80 ppb	High ppb
	5	5	4220
Ag	> 0.4 ppm	> 2 ppm	High ppm
	5	3	9.8
As	> 117 ppm	>240 ppm	High ppm
	5	5	>10000

FLUID INCLUSIONS

Samples were investigated for fluid inclusions in an attempt to determine fluid chemistry and temperature of crystallization, however, only very small (< 5 μm) vapor rich inclusions were observed. Larger inclusions were noted to have abundant necking or leaking, thus, a fluid inclusion study was not conducted due to extensive deformation.

MINERALIZATION

Gold and silver occur in the native form and in close association with arsenopyrite – pyrite. Sulphides are commonly less than 2%, but, may range up to 4 % by volume and are partially replaced by limonite. Arsenopyrite forms as finely disseminated neddles, blebs, framboids (Figure 24) and (micro-veinlets 1.3 mm wide) (Figure 21-24). Pyrite is generally in the cubic form as fine disseminations. Gold grains in thin section range up to 100 μm in size. Silver occurs late in the paragenesis as native and possibly as andorite-argyridite grains up to 500 μm in size (Figure 21). Sulphides appear structurally controlled, which have undergone multiple episodes of (crack and seal) by fault activation and crystallization of mineralizing fluids.

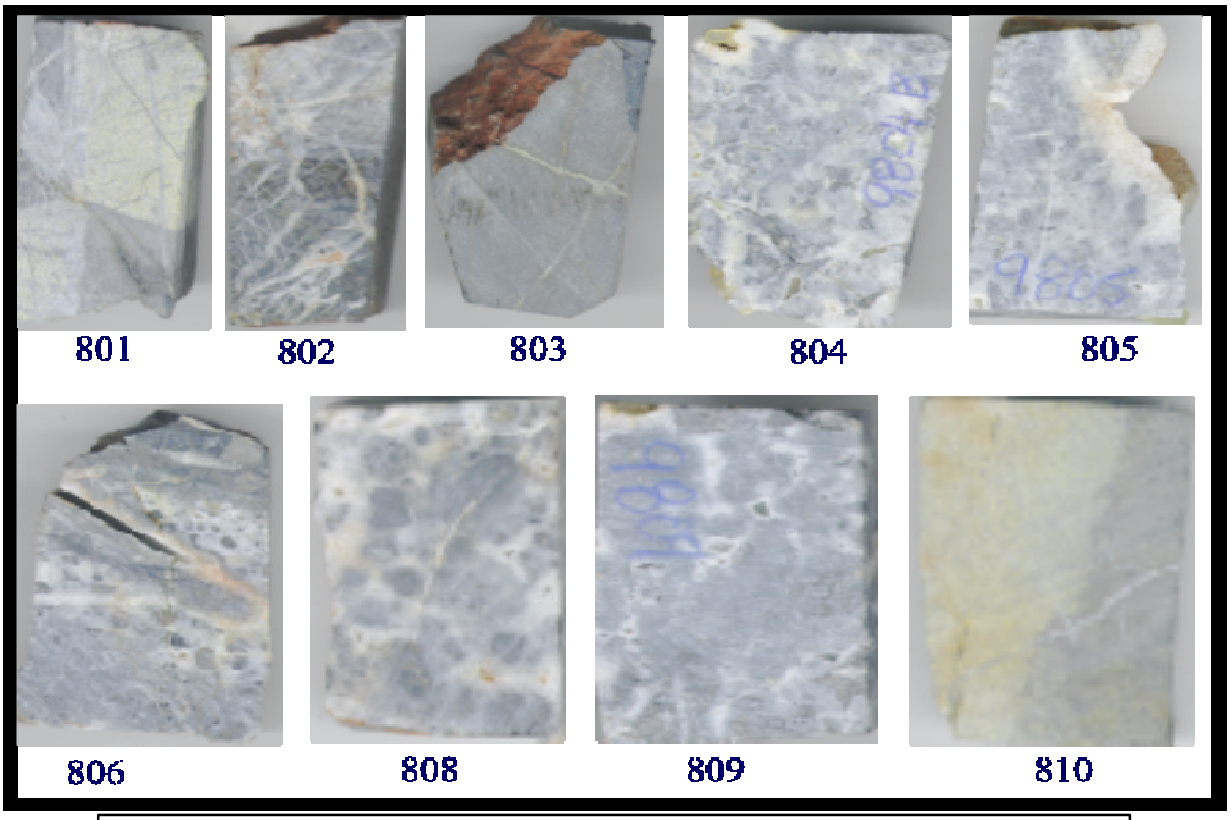

Figure 19. Photographs of lab test samples, assessment 2000

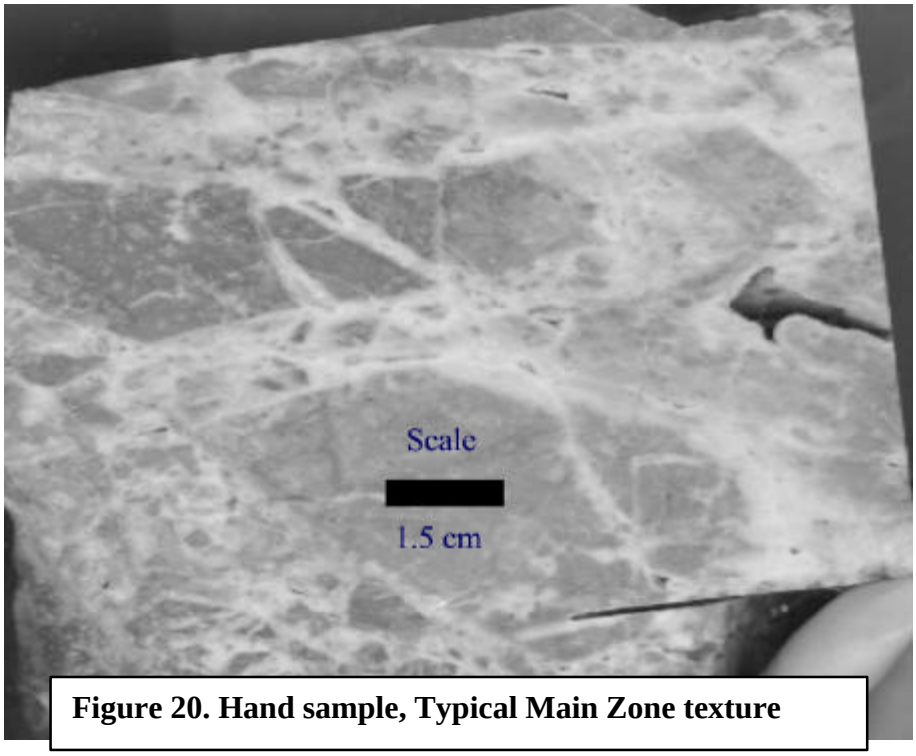

Figure 20. Hand sample, Typical Main Zone texture

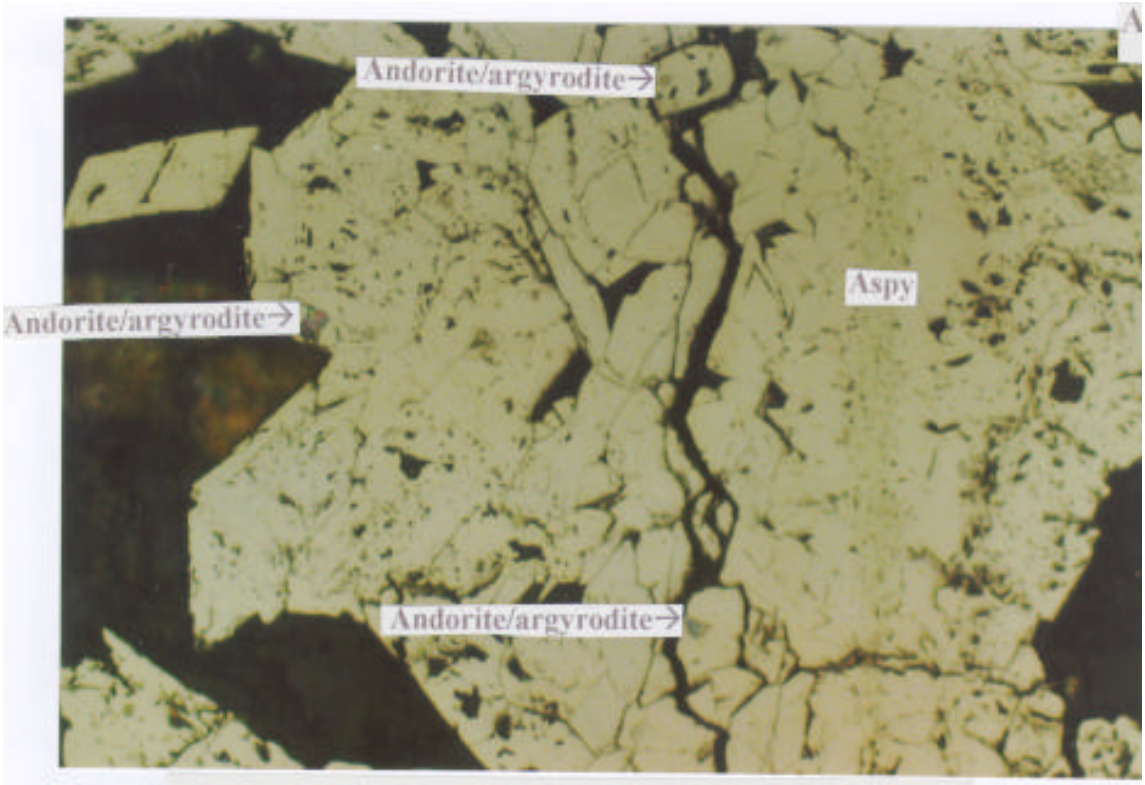

Figure 21. Photomicrograph sample # 801, FOV 0.30 mm, xpl, aspy seem

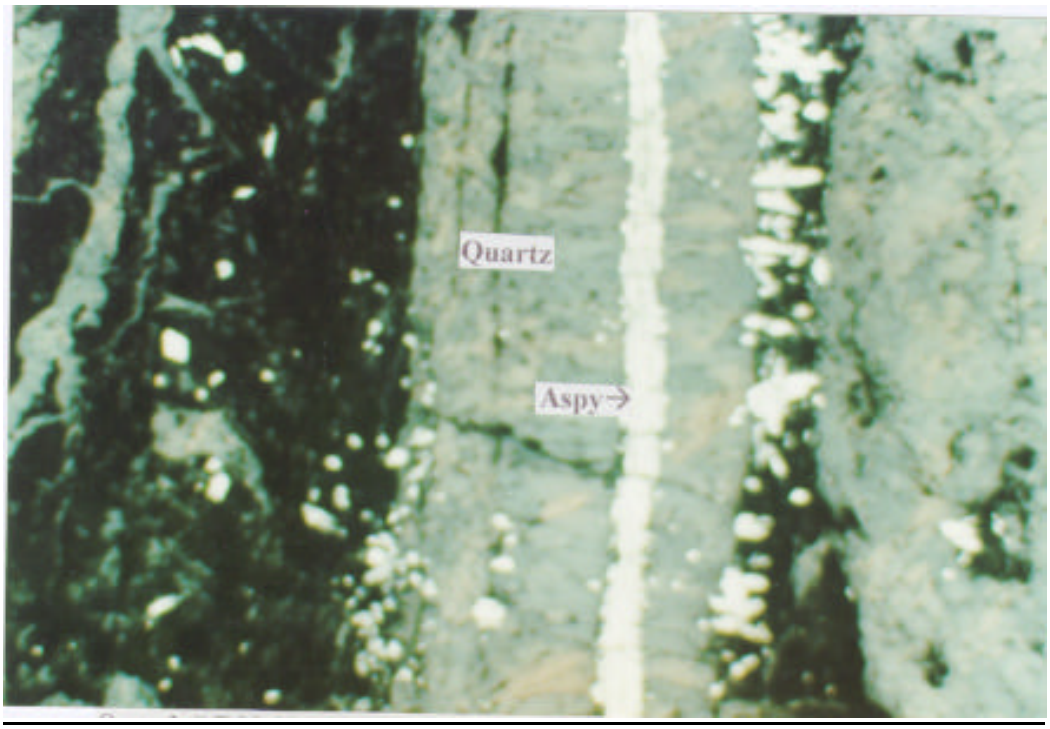

Figure 22. Photomicrograph sample #801, FOV 5.1 mm, ppl

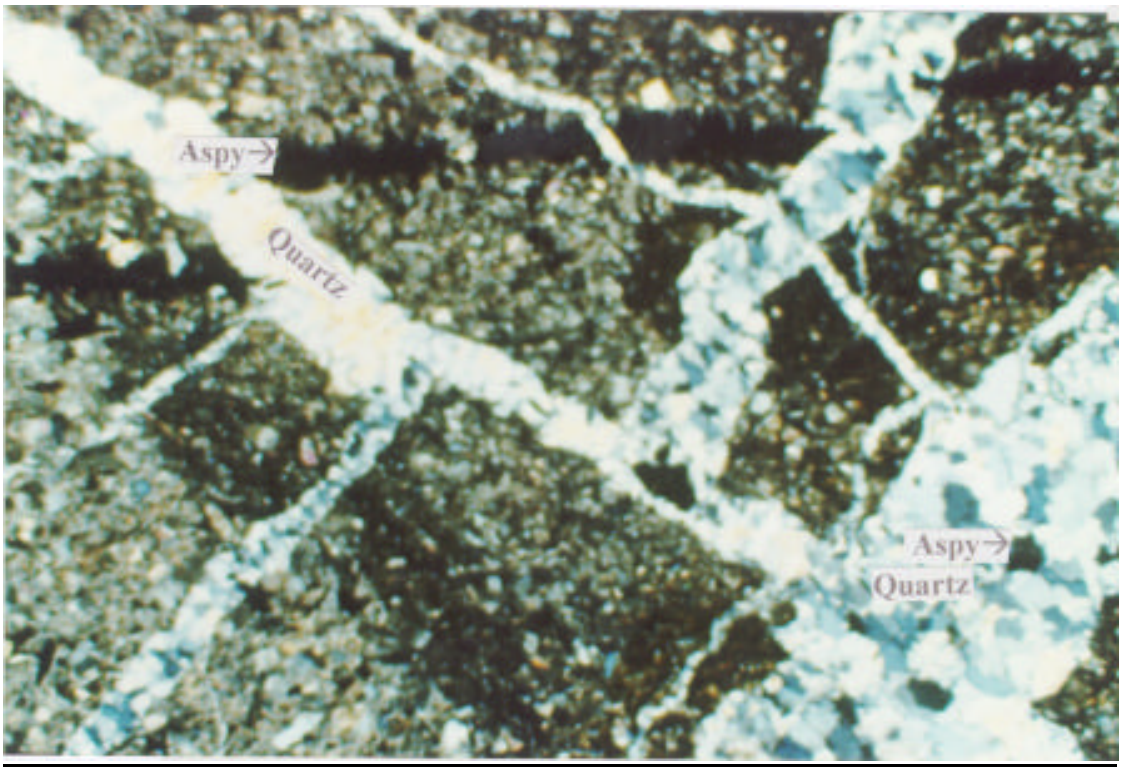

Figure 23. Photomicrograph sample #803, FOV 5.1 mm, transmitted xpl

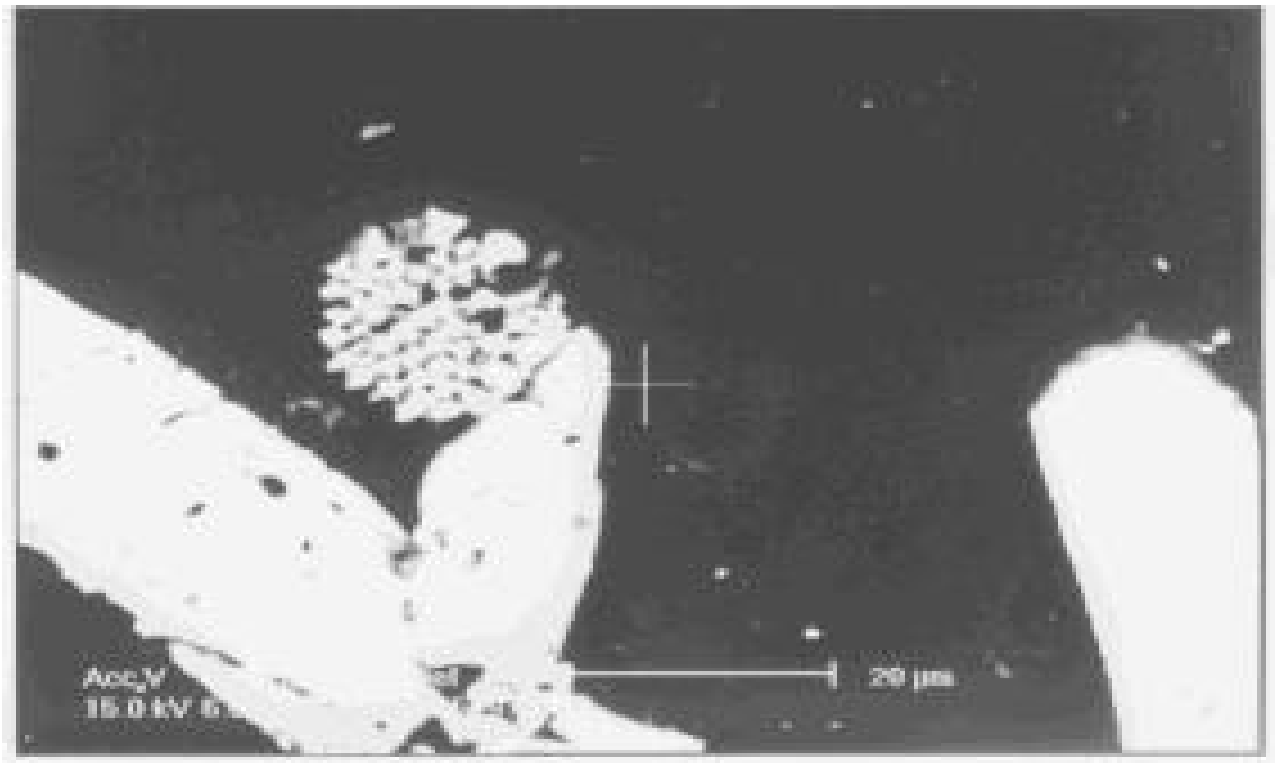

Figure 24. Photomicrograph sample #801, Scanning Electron Microscope, Aspy

ALTERATION

The dominant alteration within the main zone is phyllic (quartz-sericite-aspy-py), with K-feldspar, silicification, chalcedony and illite. Weak to moderate pervasive potassium alteration was determined from HF-Sodium cobalt nitrite staining (Sample # 9801 & 9810) (Figure 19). The PIMA Infrared spectral analysis indicates the presence of illite and muscovite with a low error margin, while the remaining samples returned null of high error (appendix 3). The presence of illite indicates a temperature range of an estimated 150-250°C. Alteration is localized to the 025 fault and related structures. The wall rocks are only weakly to moderately altered suggesting a low temperature system.

DISCUSSION

The soil sampling program has identified two new areas of anomalous gold mineralization within the 025 structure. The first new area is located in the central portion of the structure (Figure 5 & 16), where gold ranges from ≥ 20 ppb to ≤ 80 ppb, 300-500 m strike ± 20 m wide. The second new area is located at the north end of the Barny zone (Figure 5 & 18), where gold values range from ≥ 20 ppb to ≤ 140 ppb, > 300 m strike,

and ≤ 20 m to ≥ 60 m wide. Rock samples failed to turn up any new areas of mineralization, however, have provided additional data for the Bearox and Main zones. Rock grab Sample #118957 from the main zone returned 4.22 g/t Au (Table3 & 4). Rock samples 118953-118955 were taken from hand trench 97HTR01 on the Bearox zone as 3 consecutive samples returned 933 ppb over 4 m. Grab sample # 118956 was taken from the southeast portion of the Bearox zone returned 1050 ppb Au (Table 4). Grab samples GT00R1 and GT00R2 contained disseminated to blebs of sulphide with qtz-breccia textures, but, failed to turn up significant values (Table 4).

Quartz is the dominant phase component with a single phase reaching 54 % quartz by volume. Quartz is seen with foam textures microscopically and as feathered net texture, coxcomb, crackle breccia, stockwork and with drusy vug textures megascopically. Phyllic alteration is localized to the fault zone however, it is present at all stages in the paragenetic sequence. Up to three phases of quartz-sulphide mineralization have been identified from petrology. Quartz and sulphides display foam textures and crosscutting relationships. Gold and silver are intimately associated with the arsenopyrite deposition. Data also suggest that the gold and silver were deposited late in the fluid phase, post-syn arsenopyrite and pyrite deposition.

SUMMARY

Soil samples taken this year have extended the strike length of anomalous Au-As values within the 025 structure by 500 m. Alteration of the main zone consists of quartz, potassium feldspar, illite, sericite, muscovite and other clays minerals. Small vapour rich fluid inclusion were identified, suggesting a low to moderate salinity, however most of the aqueous-vapour inclusions were deformed which hampered this study. Correlation coefficient (r^2) values for Au/As, Au/Cu, and As/Sb are 0.63, 0.64 and 0.74 respectively. Petrology has identified multiple episodes of quartz-sulphide mineralization within the main zone. Open spaces, coxcomb and cockade texture with limited wallrock alteration and presence of illite suggest a low temperature 150-250°C epithermal system for the Main zone. Abundant slickenslides megascopically and foam texture, network fractures and leakage of fluid inclusions microscopically is evidence for a dynamic system.

RECOMMENDATIONS

- Gold is known to occur in the native form and associated with arsenopyrite and pyrite. Further studies should be conducted to determine if gold is refractory and at what ratio.
- Additional soil sampling within the central portion of the structure, Barny zone area and southern portions of the Bearox zone. Soils should be taken with a mechanized auger due bog like ground conditions.
- A Radiometric survey should be conducted along the entire 6 km structure, which would detect areas of strong potassic alteration.
- An I.P. survey in a dipole-dipole array should be conducted along the 6 km structure which would detect resistive and conductive areas.
- Geological mapping and investigation of areas where a high degree of cross faulting occurs (Figure 5).

STATEMENT OF QUALIFICATIONS

- I Gary R. Thompson of #147-6335 Thunderbird Crescent, Vancouver BC , V6T 2G9, certify that:
- I hold a B.Sc. (honours) geology degree from The University of British Columbia.
- I have been active in mineral exploration since 1984.
- I have successfully completed the Advanced Prospectors Training Program and the Petrology for Prospectors Program sponsored by the British Columbia Energy Mines and Petroleum Resources in 1989 and 1990 respectively.

August Assessment 2000

Gary R. Thompson, B.Sc.----------

Acknowledgement

Thanks to David Caulfield (Rimfire Minerals Corp.) for support on the soil-rock geochemical program.

Cost Statement
025 Claim Group
Assessment Work 2000

Labour	8 man days	$250 pd	$2,000
Travel			$1,900
Food-Accommodation			$500
Assays			$800
Supplies			$300
Lab-prep-analysis			$1,250
Misc			$200
Report			$500
			$7,450
	withdrawl	P-A-C	$550
		total	**$8,000**

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***Aerial Photographic Prints**:* BC 5677-#050, 511, 067, 086, 177, 178, 179,

Appendix 1

Table 4. Assay and Sample descriptions.

025 Soil and Rock Sample Data **A0027233-CERTIFIED**

Assessment Report 2000

Sample #	UTM Easting	UTM Northing	zone	Type	Sample Description
GT00S1	543705	6605103	8 V	soil	1.2m depth, tan-gray-green clay rich sand-pebbles of altered argillite
GT00S2	543719	6605100	8 V	soil	0.5m depth, tan brown, rocky-silt w/altered argillite
GT00S3	543681	6605118	8 V	soil	0.5m depth, tan-orange-brown, clay-silt-pebbles, argillite
GT00S4	543599	6604837	8 V	soil	0.5m depth, tan-gray-orange-brown, clay-sand-pebbles of altered argillite
GT00S5	543631	6604838	8 V	soil	0.6m depth, tan-brown, clay-sand-silt w/altered argillite
GT00S6	543579	6604853	8 V	soil	0.5m depth, rusty-orange-brown, silt-talus fines w/qtz-carb-breccia-argillite o/c
GT00S7	543448	6604504	8 V	soil	0.3m depth, tan-gray-brown, clay-silt-sand, altered argillite
GT00S8	543477	6604502	8 V	soil	0.3m depth, tan-gray-brown, clay-silt-sand-rock fines argillte
GT00S9	543400	6604201	8 V	soil	0.5m depth, lt brown-orange-tan, silt-rock fines of altered graywacke o/c
GT00S10	543226	6603946	8 V	soil	0.3m depth, tan-borwn, clay w/argillte fragments, base of slope
GT00S11	543129	6603631	8 V	soil	0.9m depth, tan-green-gray, clay
GT00S12	542906	6603370	8 V	soil	2m depth, gray-blue-green, clay w/pebbles of altered argillte, fault center
GT00S13	542876	6603385	8 V	soil	1.8m depth, tan-gray-brown, clay w/pebbles of altered argillite
GT00S14	542941	6603388	8 V	soil	1.0m depth, medium brown clay w/pebbles of altered argillite
GT00S15	542827	6603195	8 V	soil	1.3m depth, tan-brown, clay-sand w/pebbles of altered argillite
GT00S16	542821	6603206	8 V	soil	0.4m depth, tan-brown, clay-sand w/pebbles of altered argillite
GT00S17	542856	6603179	8 V	soil	0.5m depth, tan-gray-brown, clay-sand w/fragments of altered argillite
GT00S18	542731	6602926	8 V	soil	2.5m depth, dark brown, organic rich clay-silt, old lake bottom w/snails, fault center
GT00S19	542719	6602925	8 V	soil	0.6m depth, orange-brown, silt-talus fines, qtz-Fe-carb-breccia vein argillte
GT00S20	542756	6602896	8 V	soil	0.3m depth, tan-yellow, silt-sand w/pebbles and cobbs of altered argillite
025s1	4990E	5395N	8 V	soil	Bear-ox grid, gray-brown clay-silt w/fragments of argillite
025s2	5050E	4900N	8 V	soil	Bear-ox grid area, 2m depth, gray-brown clay-silt
GT00R1	542756	6602896	8 V	rock	float from soil site GT00S19, qtz-Fe-carb argillite breccia, 1% sulphide blebs+seems weathers to a rusty-orange, open spaces and feather-net-texture to stockwork
GT00R2	543088	6603131	8 V	rock	o/c, grab, weakly altered limestone-limygritstone, w/hairline qtz-sulphide (py) veinlets taken near creek draining Long Lake, north-south srtike fault zone
118953	542363	6602345	8 V	rock	taken from hand trench 97TR01, highly fractured qtz-agillite breccia, 1.3m chip-grab
118954	542363	6602345	8V	rock	from hand trench 97TR01, fault rubble, highly friable, qtz-breccia fragments, 1.9m chip
118955	542363	6602345	8 V	rock	from hand trench 97TR01, fault rubble, highly friable, qtz-breccia fragments, 1m chip
Table 4					
118956			8 V	rock	O/c grab near First Lake (Bearox), qtz-argillite stockwork, feathery-bladed qtz
118957			8 V	rock	main zone o/c grab, smoke gray qtz argillite breccia, fine diss\sulphides, aspy-py

Sample #	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %
GT00S1	65	<.2	1.8	40	<10	130	0.5	<2	1.1
GT00S2	10	<.2	2.78	86	<10	150	1	<2	0.81
GT00S3	5	<.2	2.33	20	<10	190	0.5	<2	0.42
GT00S4	105	<.2	2.19	48	<10	120	0.5	<2	0.73
GT00S5	20	<.2	2.23	42	<10	130	0.5	<2	0.78
GT00S6	140	0.6	1.12	274	<10	110	2	<2	0.56
GT00S7	5	<.2	2.03	22	<10	110	0.5	<2	0.26
GT00S8	10	<.2	2.66	18	<10	190	0.5	<2	0.38
GT00S9	15	<.2	3.7	96	<10	190	1.5	<2	0.51
GT00S10	5	<.2	2.42	36	<10	170	0.5	<2	0.81
GT00S11	15	<.2	2.73	30	<10	260	0.5	<2	0.97
GT00S12	15	<.2	2.21	32	<10	180	0.5	<2	0.74
GT00S13	20	<.2	2.29	118	<10	190	0.5	<2	0.78
GT00S14	10	0.2	2.31	26	<10	250	0.5	<2	1.12
GT00S15	80	<.2	1.76	232	<10	100	0.5	<2	1.06
GT00S16	15	<.2	2.38	292	<10	210	0.5	<2	0.77
GT00S17	5	<.2	2.46	12	<10	80	0.5	<2	0.41
GT00S18	80	0.2	0.86	480	<10	160	<.5	<2	6.24
GT00S19	75	0.4	1.07	2020	<10	100	1	<2	0.71
GT00S20	<5	<.2	1.98	40	<10	130	0.5	<2	0.28
025s1	30	0.6	1.6	448	<10	180	0.5	<2	1
025s2	15	0.6	1.54	20	<10	170	0.5	<2	1.25
GT00R1	<5	<.2	0.7	32	<10	80	0.5	<2	7.26
GT00R2	10	<.2	1.67	<2	<10	70	0.5	<2	3.93
118953	980	7.2	0.14	6320	<10	60	<.5	<2	0.04
118954	1590	1.8	0.49	>10000	<10	140	1	6	4.87
118955	230	0.4	1.55	954	<10	70	0.5	<2	0.16
118956	1050	2.6	0.33	5820	<10	60	<.5	<2	0.1
118957	4220	0.8	0.2	7280	<10	30	<.5	<2	<.01

APPENDIX 1

Table 4

	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo

Sample #	ppm	ppm	ppm	Ppm	%	ppm	ppm	%	ppm	%	ppm	ppm
GT00S1	<.5	15	40	77	3.28	<10	<1	0.16	10	0.88	450	11
GT00S2	<.5	25	89	162	5.09	10	<1	0.29	10	1.24	510	8
GT00S3	<.5	10	113	35	3.82	10	<1	0.27	<10	1.36	320	1
GT00S4	<.5	17	52	68	4.71	10	<1	0.09	<10	1.16	285	4
GT00S5	<.5	15	46	85	3.8	<10	<1	0.12	10	0.92	430	5
GT00S6	2	37	20	59	11.2	<10	<1	0.09	10	0.19	1105	<1
GT00S7	<.5	13	37	38	3.42	<10	<1	0.1	<10	0.96	305	<1
GT00S8	<.5	18	44	52	3.84	10	<1	0.18	10	1	475	4
GT00S9	1	74	72	238	8.64	10	<1	0.22	10	1.54	1265	4
GT00S10	<.5	17	44	66	3.98	10	<1	0.14	10	0.87	400	<1
GT00S11	<.5	19	51	149	4.35	10	<1	0.3	10	1.25	580	1
GT00S12	<.5	19	49	79	3.86	<10	<1	0.18	10	1.23	370	3
GT00S13	<.5	19	47	90	4.3	10	<1	0.19	10	1.13	500	3
GT00S14	0.5	17	42	55	3.39	10	<1	0.11	<10	0.81	575	<1
GT00S15	<.5	16	46	88	3.77	<10	<1	0.11	<10	1.07	400	3
GT00S16	0.5	15	46	67	3.98	10	<1	0.13	10	1.26	495	1
GT00S17	0.5	24	61	108	5.23	10	<1	0.1	10	1.64	600	7
GT00S18	<.5	11	16	72	1.96	<10	<1	0.06	<10	0.45	100	2
GT00S19	<.5	31	15	114	7.12	<10	<1	0.12	<10	0.33	850	<1
GT00S20	<.5	13	36	38	3.48	<10	<1	0.12	<10	0.76	415	2
025s1	0.5	19	53	158	4.62	<10	<1	0.08	<10	0.85	560	4
025s2	<.5	11	39	126	2.21	<10	<1	0.08	<10	0.81	195	3
GT00R1	<.5	11	27	40	3.82	<10	<1	0.24	<10	2.97	800	<1
GT00R2	<.5	17	75	72	3.79	10	<1	0.28	<10	1.35	470	26
118953	<.5	1	116	14	0.89	<10	<1	0.09	<10	0.01	20	2
118954	<.5	36	144	100	4.51	<10	<1	0.15	<10	1.77	1000	1
118955	<.5	9	54	84	4.35	<10	<1	0.25	<10	0.54	250	1
118956	<.5	10	63	66	4.64	<10	<1	0.19	<10	0.04	385	8
118957	<.5	1	85	16	0.96	<10	<1	0.12	<10	0.02	15	2

APPENDIX 1

Table 4

Sample #	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm
GT00S1	0.03	39	830	2	0.04	<2	7	89	0.07	<10	<10	55
GT00S2	0.03	117	380	10	0.03	10	16	81	0.07	<10	<10	91

GT00S3	0.01	24	340	<2	<.01	<2	7	37	0.18	<10	<10	122
GT00S4	0.03	44	710	6	0.01	<2	10	74	0.05	<10	<10	69
GT00S5	0.02	39	340	10	0.02	<2	8	80	0.06	<10	<10	66
GT00S6	<.01	43	760	22	0.05	2	20	78	<.01	<10	<10	60
GT00S7	0.01	33	420	<2	<.01	<2	4	23	0.02	<10	<10	51
GT00S8	0.02	45	270	6	<.01	<2	7	35	0.08	<10	<10	66
GT00S9	0.06	139	630	<2	0.05	<2	15	75	0.06	<10	<10	112
GT00S10	0.02	41	400	6	0.02	<2	8	100	0.04	<10	<10	69
GT00S11	0.03	74	600	12	0.02	<2	10	106	0.1	<10	<10	69
GT00S12	0.02	47	570	8	0.2	2	9	96	0.07	<10	<10	66
GT00S13	0.02	49	620	2	0.04	4	10	120	0.07	<10	<10	64
GT00S14	0.01	35	560	8	0.04	<2	6	107	0.03	<10	<10	64
GT00S15	0.03	44	990	6	0.07	14	9	136	0.05	<10	<10	53
GT00S16	0.03	42	680	8	0.02	8	8	120	0.05	<10	<10	61
GT00S17	0.01	62	520	6	0.02	<2	8	41	<.01	<10	<10	82
GT00S18	0.01	27	490	6	1.88	24	6	352	<.01	<10	<10	22
GT00S19	0.01	63	730	20	0.07	50	18	94	<.01	<10	<10	33
GT00S20	0.01	30	390	2	<.01	<2	5	29	0.02	<10	<10	58
025s1	0.01	88	1380	8	0.08	76	11	116	0.01	<10	<10	52
025s2	0.01	44	550	8	0.77	10	6	128	0.01	<10	<10	42
GT00R1	0.01	25	980	<2	0.15	8	6	848	<.01	<10	<10	26
GT00R2	0.02	43	800	<2	1.53	<2	8	232	0.03	<10	<10	69
118953	<.01	9	120	2	0.12	58	<1	55	<.01	<10	<10	6
118954	<.01	300	2520	2	0.09	116	17	351	<.01	<10	<10	57
118955	0.02	27	1070	12	0.04	16	6	20	<.01	<10	<10	51
118956	<.01	60	410	6	0.07	84	7	52	<.01	<10	<10	26
118957	<.01	4	100	4	0.33	106	<1	13	<.01	<10	<10	4

Table 4 con't.

	W	Zn
Sample #	ppm	ppm
GT00S1	<10	102
GT00S2	<10	80
GT00S3	<10	58
GT00S4	<10	84

GT00S5	<10	74
GT00S6	<10	108
GT00S7	<10	68
GT00S8	<10	114
GT00S9	<10	96
GT00S10	<10	90
GT00S11	<10	114
GT00S12	<10	118
GT00S13	<10	106
GT00S14	<10	80
GT00S15	<10	104
GT00S16	<10	92
GT00S17	<10	120
GT00S18	<10	86
GT00S19	<10	100
GT00S20	<10	64
025s1	<10	138
025s2	<10	114
GT00R1	<10	58
GT00R2	<10	74
118953	<10	4
118954	<10	52
118955	<10	60
118956	<10	62
118957	<10	6

ALS Chemex

Aurora Laboratory Services 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: EQUITY ENGINEERING LTD.

700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

A0026738

Comments: ATTN: DAVID CAULFIELD

CERTIFICATE A0026738

(EIA) - EQUITY ENGINEERING LTD.

Project: RMC00-06
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 30-AUG-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	9	Geochem ring to approx 150 mesh
226	9	0-3 Kg crush and split
3202	9	Rock - save entire reject
229	9	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	9	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	9	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	9	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	9	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	9	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	9	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	9	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	9	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	9	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	9	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	9	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	9	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	9	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	9	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	9	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	9	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	9	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	9	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	9	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	9	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	9	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	9	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	9	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	9	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	9	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	9	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	9	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	9	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	9	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	9	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	9	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	9	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	9	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	9	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	9	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

ALS Chemex

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To: EQUITY ENGINEERING LTD.

700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

Project : RMC00-06
Comments: ATTN: DAVID CAULFIELD

Page Number :1-A
Total Pages :1
Certificate Date: 30-AUG-2000
Invoice No. :I0026738
P.O. Number :
Account :EIA

CERTIFICATE OF ANALYSIS A0026738

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B 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 %
118953	205 226	980	7.2	0.14	6320	< 10	60	< 0.5	< 2	0.04	< 0.5	1	116	14	0.89	< 10	< 1	0.09	< 10	0.01
118954	205 226	1590	1.8	0.49	>10000	< 10	140	1.0	6	4.87	< 0.5	36	144	100	4.51	< 10	< 1	0.15	< 10	1.77
118955	205 226	230	0.4	1.55	954	< 10	70	0.5	< 2	0.16	< 0.5	9	54	84	4.35	< 10	< 1	0.25	< 10	0.54
118956	205 226	1050	2.6	0.33	5820	< 10	60	< 0.5	< 2	0.10	< 0.5	10	63	66	4.64	< 10	< 1	0.19	< 10	0.04
118957	205 226	4220	9.8	0.20	7280	< 10	30	< 0.5	< 2	< 0.01	< 0.5	1	85	16	0.96	< 10	< 1	0.12	< 10	0.02

CERTIFICATION: David Lefebvre

ALS Chemex

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Page Number :1-B
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Account :EIA

CERTIFICATE OF ANALYSIS A0026738

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
118953	205 226	20	2	< 0.01	9	120	2	0.12	58	< 1	55	< 0.01	< 10	< 10	6	< 10	4
118954	205 226	1000	1	< 0.01	300	2520	2	0.09	116	17	351	< 0.01	< 10	< 10	57	< 10	52
118955	205 226	250	1	0.02	27	1070	12	0.04	16	6	20	< 0.01	< 10	< 10	51	< 10	60
118956	205 226	385	8	< 0.01	60	410	6	0.07	84	7	52	< 0.01	< 10	< 10	26	< 10	62
118957	205 226	15	2	< 0.01	4	100	4	0.33	106	< 1	13	< 0.01	< 10	< 10	4	< 10	6

CERTIFICATION:

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700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

A0027232

Comments: ATTN: DAVID CAULFIELD

CERTIFICATE A0027232

(EIA) - EQUITY ENGINEERING LTD.

Project: RMC-00-06
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 05-SEP-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	20	Dry, sieve to -80 mesh
202	20	save reject
229	20	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	20	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	20	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	20	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	20	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	20	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	20	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	20	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	20	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	20	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	20	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	20	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	20	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	20	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	20	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	20	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	20	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	20	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	20	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	20	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	20	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	20	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	20	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	20	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	20	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	20	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	20	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	20	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	20	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	20	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	20	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	20	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	20	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	20	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	20	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	20	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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700 - 700 W. PENDER ST.
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V6C 1G8

Project : RMC-00-06
Comments: ATTN: DAVID CAULFIELD

Page Number :1-A
Total Pages :1
Certificate Date: 05-SEP-2000
Invoice No. :I0027232
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Account :EIA

CERTIFICATE OF ANALYSIS A0027232

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	B 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 %
GT0081	201	202	65	< 0.2	1.80	40	< 10	130	0.5	< 2	1.10	< 0.5	15	40	77	3.28	< 10	< 1	0.16	10	0.88
GT0082	201	202	10	< 0.2	2.78	86	< 10	150	1.0	< 2	0.81	< 0.5	25	89	162	5.09	10	< 1	0.29	10	1.24
GT0083	201	202	5	< 0.2	2.33	20	< 10	190	0.5	< 2	0.42	< 0.5	10	113	35	3.82	10	< 1	0.27	< 10	1.36
GT0084	201	202	105	< 0.2	2.19	48	< 10	120	0.5	< 2	0.73	< 0.5	17	52	68	4.71	10	< 1	0.09	< 10	1.16
GT0085	201	202	20	< 0.2	2.23	42	< 10	130	0.5	< 2	0.78	< 0.5	15	46	85	3.80	< 10	< 1	0.12	10	0.92
GT0086	201	202	140	0.6	1.12	274	< 10	110	2.0	< 2	0.56	2.0	37	20	59	11.20	< 10	< 1	0.09	10	0.19
GT0087	201	202	5	< 0.2	2.03	22	< 10	110	0.5	< 2	0.26	< 0.5	13	37	38	3.42	< 10	< 1	0.10	< 10	0.96
GT0088	201	202	10	< 0.2	2.66	18	< 10	190	0.5	< 2	0.38	< 0.5	18	44	52	3.84	10	< 1	0.18	10	1.00
GT0089	201	202	15	< 0.2	3.70	96	< 10	190	1.5	< 2	0.51	1.0	74	72	238	8.64	10	< 1	0.22	10	1.54
GT00810	201	202	5	< 0.2	2.42	36	< 10	170	0.5	< 2	0.81	< 0.5	17	44	66	3.98	10	< 1	0.14	10	0.87
GT00811	201	202	15	< 0.2	2.73	30	< 10	260	0.5	< 2	0.97	< 0.5	19	51	149	4.35	10	< 1	0.30	10	1.25
GT00812	201	202	15	< 0.2	2.21	32	< 10	180	0.5	< 2	0.74	< 0.5	19	49	79	3.86	< 10	< 1	0.18	10	1.23
GT00813	201	202	20	< 0.2	2.29	118	< 10	190	0.5	< 2	0.78	< 0.5	19	47	90	4.30	10	< 1	0.19	10	1.13
GT00814	201	202	10	0.2	2.31	26	< 10	250	0.5	< 2	1.12	0.5	17	42	55	3.39	10	< 1	0.11	< 10	0.81
GT00815	201	202	80	< 0.2	1.76	232	< 10	100	0.5	< 2	1.06	< 0.5	16	46	88	3.77	< 10	< 1	0.11	< 10	1.07
GT00816	201	202	15	< 0.2	2.38	292	< 10	210	0.5	< 2	0.77	0.5	15	46	67	3.98	10	< 1	0.13	10	1.26
GT00817	201	202	5	< 0.2	2.46	12	< 10	80	0.5	< 2	0.41	0.5	24	61	108	5.23	10	< 1	0.10	10	1.64
GT00818	201	202	80	0.2	0.86	480	< 10	160	< 0.5	< 2	6.24	< 0.5	11	16	72	1.96	< 10	< 1	0.06	< 10	0.45
GT00819	201	202	75	0.4	1.07	2020	< 10	100	1.0	< 2	0.71	< 0.5	31	15	114	7.12	< 10	< 1	0.12	< 10	0.33
GT00820	201	202	< 5	< 0.2	1.98	40	< 10	130	0.5	< 2	0.28	< 0.5	13	36	38	3.48	< 10	< 1	0.12	< 10	0.76

CERTIFICATION:

ALS Chemex

Aurora Laboratory Services Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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Project: RMC-00-06
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CERTIFICATE OF ANALYSIS A0027232

SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
GT00S1	201	202	450	11	0.03	39	830	2	0.04	< 2	7	89	0.07	< 10	< 10	55	< 10	102
GT00S2	201	202	510	8	0.03	117	380	10	0.03	10	16	81	0.07	< 10	< 10	91	< 10	80
GT00S3	201	202	320	1	0.01	24	340	< 2	< 0.01	< 2	7	37	0.18	< 10	< 10	122	< 10	58
GT00S4	201	202	285	4	0.03	44	710	6	0.01	< 2	10	74	0.05	< 10	< 10	69	< 10	84
GT00S5	201	202	430	5	0.02	39	340	10	0.02	< 2	8	80	0.06	< 10	< 10	66	< 10	74
GT00S6	201	202	1105	< 1	< 0.01	43	760	22	0.05	2	20	78	< 0.01	< 10	< 10	60	< 10	108
GT00S7	201	202	305	< 1	0.01	33	420	< 2	< 0.01	< 2	4	23	0.02	< 10	< 10	51	< 10	68
GT00S8	201	202	475	4	0.02	45	270	6	< 0.01	< 2	7	35	0.08	< 10	< 10	66	< 10	114
GT00S9	201	202	1265	4	0.06	139	630	< 2	0.05	< 2	15	75	0.06	< 10	< 10	112	< 10	96
GT00S10	201	202	400	< 1	0.02	41	400	6	0.02	< 2	8	100	0.04	< 10	< 10	69	< 10	90
GT00S11	201	202	580	1	0.03	74	600	12	0.02	< 2	10	106	0.10	< 10	< 10	69	< 10	114
GT00S12	201	202	370	3	0.02	47	570	8	0.20	2	9	96	0.07	< 10	< 10	66	< 10	118
GT00S13	201	202	500	3	0.02	49	620	2	0.04	4	10	120	0.07	< 10	< 10	64	< 10	106
GT00S14	201	202	575	< 1	0.01	35	560	8	0.04	< 2	6	107	0.03	< 10	< 10	64	< 10	80
GT00S15	201	202	400	3	0.03	44	990	6	0.07	14	9	136	0.05	< 10	< 10	53	< 10	104
GT00S16	201	202	495	1	0.03	42	680	8	0.02	8	8	120	0.05	< 10	< 10	61	< 10	92
GT00S17	201	202	600	7	0.01	62	520	6	0.02	< 2	8	41	< 0.01	< 10	< 10	82	< 10	120
GT00S18	201	202	100	2	0.01	27	490	6	1.88	24	6	352	< 0.01	< 10	< 10	22	< 10	86
GT00S19	201	202	850	< 1	0.01	63	730	20	0.07	50	18	94	< 0.01	< 10	< 10	33	< 10	100
GT00S20	201	202	415	2	0.01	30	390	2	< 0.01	< 2	5	29	0.02	< 10	< 10	58	< 10	64

CERTIFICATION:

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To: EQUITY ENGINEERING LTD.

700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

A0027233

Comments: ATTN: DAVID CAULFIELD

CERTIFICATE A0027233

(EIA) - EQUITY ENGINEERING LTD.

Project: RMC-00-06
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 04-SEP-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	2	Geochem ring to approx 150 mesh
226	2	0-3 Kg crush and split
3202	2	Rock - save entire reject
229	2	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	2	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	2	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	2	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	2	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	2	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	2	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	2	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	2	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	2	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	2	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	2	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	2	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	2	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	2	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	2	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	2	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	2	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	2	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	2	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	2	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	2	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	2	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	2	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	2	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	2	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	2	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	2	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	2	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	2	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	2	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	2	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	2	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	2	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	2	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	2	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

ALS Chemex

Aurora Laboratory Services 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: EQUITY ENGINEERING LTD.

700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

Project : RMC-00-06
Comments: ATTN: DAVID CAULFIELD

Page Number :1-A
Total Pages :1
Certificate Date: 04-SEP-2000
Invoice No. :I0027233
P.O. Number :
Account :EIA

CERTIFICATE OF ANALYSIS A0027233

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	B 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 %
GT00R1	205	226	< 5	< 0.2	0.70	32	< 10	80	0.5	< 2	7.26	< 0.5	11	27	40	3.82	< 10	< 1	0.24	< 10	2.97
GT00R2	205	226	10	< 0.2	1.67	< 2	< 10	70	0.5	< 2	3.93	< 0.5	17	75	72	3.79	10	< 1	0.28	< 10	1.35

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A0027233

SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
GT00R1	205	226	800	< 1	0.01	25	980	< 2	0.15	8	6	848	< 0.01	< 10	< 10	26	< 10	58
GT00R2	205	226	470	26	0.02	43	800	< 2	1.53	< 2	8	232	0.03	< 10	< 10	69	< 10	74

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700 - 700 W. PENDER ST.
VANCOUVER, BC
V6C 1G8

A0030031

Comments: ATTN: DAVID CAULFIELD

CERTIFICATE A0030031

(EIA) - EQUITY ENGINEERING LTD.

Project: RMC-00-06
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 29-SEP-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	2	Dry, sieve to -80 mesh
202	2	save reject
229	2	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
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2120	2	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	2	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	2	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	2	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	2	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	2	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	2	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	2	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	2	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	2	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	2	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
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2131	2	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
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2151	2	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	2	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	2	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	2	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
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2143	2	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	2	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	2	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	2	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	2	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	2	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	2	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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CERTIFICATE OF ANALYSIS A0030031

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B 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 %
025-S-1	201 202	30	0.6	1.60	448	< 10	180	0.5	< 2	1.00	0.5	19	53	158	4.62	< 10	< 1	0.08	< 10	0.85
025-S-2	201 202	15	0.6	1.54	20	< 10	170	0.5	< 2	1.25	< 0.5	11	39	126	2.21	< 10	< 1	0.08	< 10	0.81

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CERTIFICATE OF ANALYSIS A0030031

SAMPLE	PREP CODE		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
025-S-1	201	202	560	4	0.01	88	1380	8	0.08	76	11	116	0.01	< 10	< 10	52	< 10	138
025-S-2	201	202	195	3	0.01	44	550	8	0.77	10	6	128	0.01	< 10	< 10	42	< 10	114

CERTIFICATION:

APPENDIX 2

SAMPLE DATA

801

Major Phase	%	Assay g/t	Hand Sample Description
Quartz 1	30	6.47 Au	quartz stockwork argillite/graywacke
quartz 2	50	181 Ag	veinlets 1cm - <1mm, mosaic breccia
quartz 3	9		open space, coxcomb, and cockade texture
			rusty weathering

minor phase	%	Thin section description
arsenopyrite 1	2	polyphase breccia to micro-breccia
arsenopyrite 2 +-pyrite	2	foam texture quartz, coxcomb, open space
sericite	6	arsenopyrite; euhedral neddle, rombic,
andorite/argyrodite	<1	star like, framboidal to anhedral recrystalized
	100	w/120 deg. angles, +- pyrite , argyrodite/andorite
		phyllic alteration, aspy partly and in some placed
		completely replaced by limonite

Paragenesis: **early** **late**

Quartz 1	----------
Quartz 2	----------
Quartz 3	--------
Arsenopyrite 1	----------
Arsenopyrite 2+-pyrite	----------
Sericite	----------
Andorite/argyrodite	---------

802

Major Phase	%	Assay results g/t	Hand Sample Description
Quartz 1	30	3.66 Au	Moderately altered argillite with quartz and sulphide
Quartz 2	50	6.9 Ag	veinlet (< or = 1mm) stockwork, as fracture fillings
Quartz 3	7		sulphides also occur as disseminations, 2 %
			arsenopyrite +- pyrite, weathers rusty-red

minor phases

Arsenopyrite 1	1	**Thin Section Description**
Sericite	10	dominated by sericite, arsenopyrite fracture infill
Arsenopyrite-pyrite	1	coxcomb quartz veinlets, phyllic alteration
Andorite/argyrodite	< 1	disseminated aspy +-py and andorite/argyrodite
	100	< 3% combined sulphides

Paragenesis	early	late
Quartz 1	----------	
Quartz 2	----------	
Quartz 3	-------	
Sericite	----------	
Arsenopyrite 1	----------	
Arsenopyrite-pyrite	----------	
Andorite-argyrodite	----------	

803

Major Phase	%	Assay g/t
Quartz 1	37	2.5 Au
Quartz 2	51	1374 Ag
minor phase		
Sericite	8	
Arsenopyrite 1	3	
Arsenopyrite 2	1	
	100	

Hand Sample Description

Quartz flooded argillite crackle breccia stockwork, quartz veinlets 1cm to <1mm, polyphase, coxcomb, cockade and drusy vugs <0.5cm open space, arsenopyrite+-pyrite 4% as fine disseminations and fracture filling, appears dominant within sediment, sample weathers gray to rusty.

Thin Section Description

Quartz ranges from euhedral to equigranular annealing foam texture 120° triple junctions, cockade and coxcomb textures. euhedral aspy andorite/argyrodite (gry-white/pinkish ppl, xpl Lt blue-cream/orange) arsenopyrite veinlets up to 1.3mm wide., aspy partly limonite replaced

Paragenesis	early		late
Quartz 1	--------------------		
Quartz 2		--------------------------	
Sericite	---		
Arsenopyrite 1		----------------	
Arsenopyrite 2			--------------
Silver - Gold	- - - -	- - - - - -	---- --- -----

804

Major Phase	%	Assay g/t
Quartz 1	40	8.7 Au
Quartz 2	54	10 Ag
minor phase		
Arsenopyrite 1	< 1	
Arsenopyrite 2	< 1	
pyrite	< 1	
Sericite	3	
	100	

Rock Sample Description

Quartz flooded argillite breccia and stockwork, clasts are sub-rounded to angular 3cm and smaller, open spaces up to 1x2cm, drusy vugs, coxcomb qtz <2% disseminated arsenopyrite, smoke-gray weathering

Thin Section Description

Quartz dominated, foam texture quartz to veinlets Aspy as fracture controlled veinlets and disseminations euhedral rombic, neddles and blebs, aspy commonly replaced in part by limonite

Paragenesis	early		late
Quartz 1	-------------------		
Quartz 2		-----------------------	
Arsenopyrite 1	---------------		
Arsenopyrite 2			---------------
pyrite			-----
Sericite	--		
Gold Silver	-- - -- - -		-- -- --- ---

APPENDIX 2

805

Major Phases	%	Assay g/t	Hand Sample Description
Quartz 1	40	3.6 Au	Quartz flooded argillite breccia, drusy qtz
Quartz 2	50	3.7 Ag	open spaces, < 1% sulphides, gray-yellow to rusty weathering

Minor Phase		Thin Section Description
Sericite	9	dominated by foam texture quartz and
Arsenopyrite	< 1	veinlets, cockade and coxcomb with
	100	open space textures, <1% sulphides
		phyllic alteration, limonite partially and in
		some places completely replaces aspy

Paragenesis	early	late
Quartz 1	----------	
Quartz 2	----------	
Sericite	----------	----------
Arsenopyrite	----------	----------
Gold – Silver	-- -- --	-- -- -- ------

806

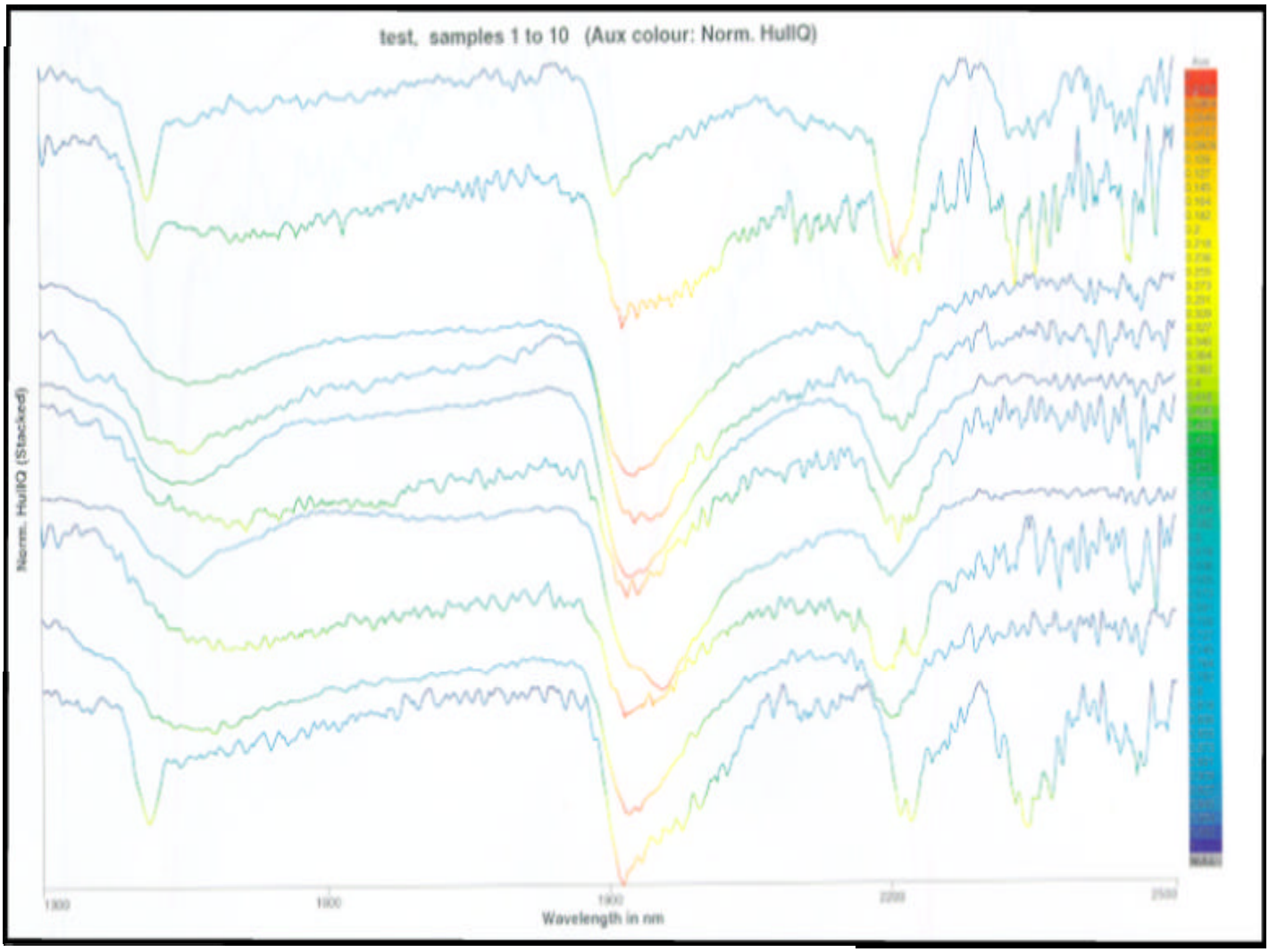
Major Phases	%	Assay g/t	Hand Sample Description
Quartz 1	25	5 Au	quartz flooded argillite, rubble breccia
Quartz 2	30	583 Ag	and veinlet stockwork, sulphides as veinlets
Quartz 3	33		and fine disseminations ≤ 4%, gray-rusty weathering

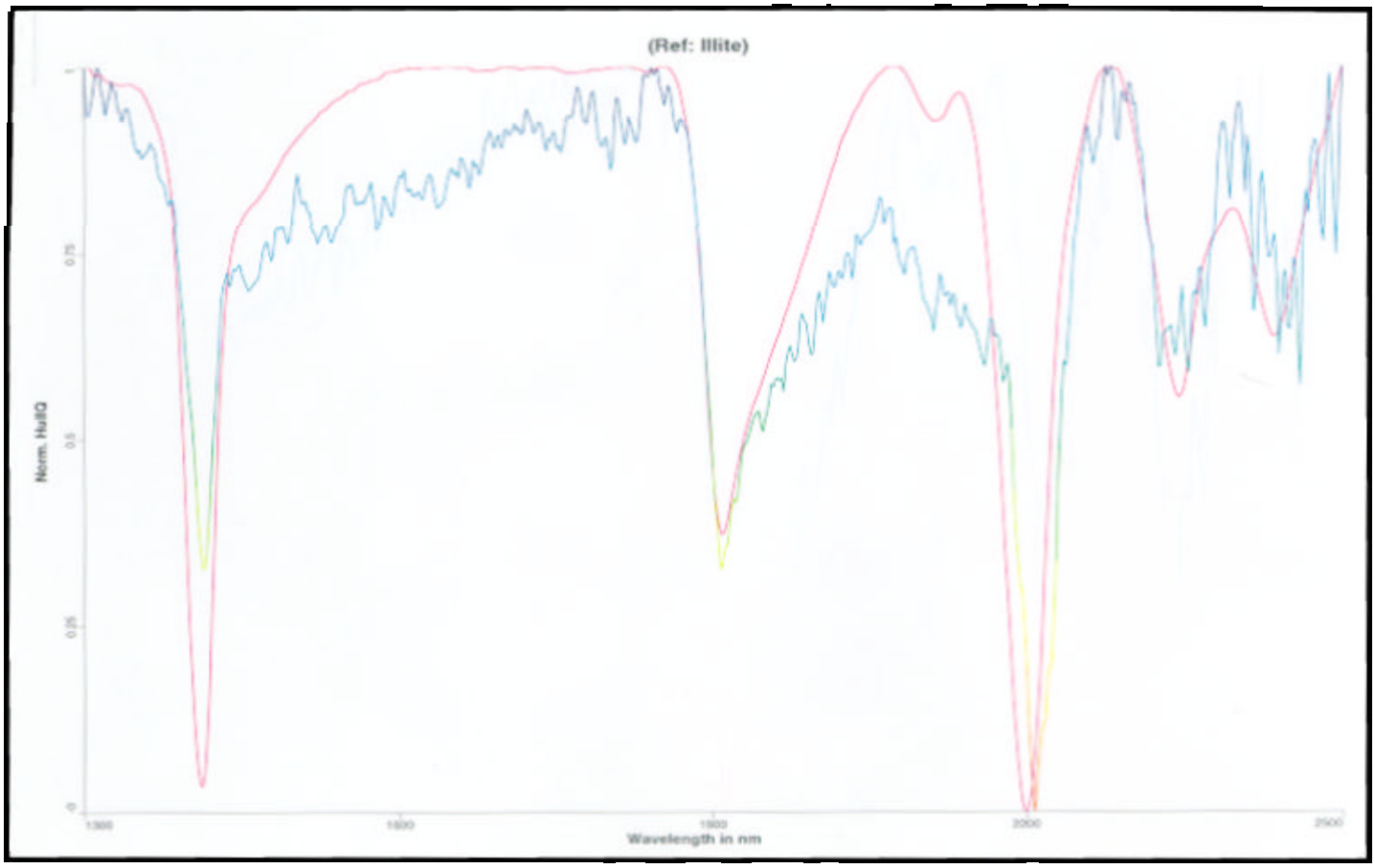
Minor Phase		Thin Section Description
Sericite	8	polyphase quartz-aspy, quartz and aspy
Arsenopyrite 1	2	also show recrystalization foam texture,
Arsenopyrite 2	2	highly fractured, limonite partially replaces aspy
	100	

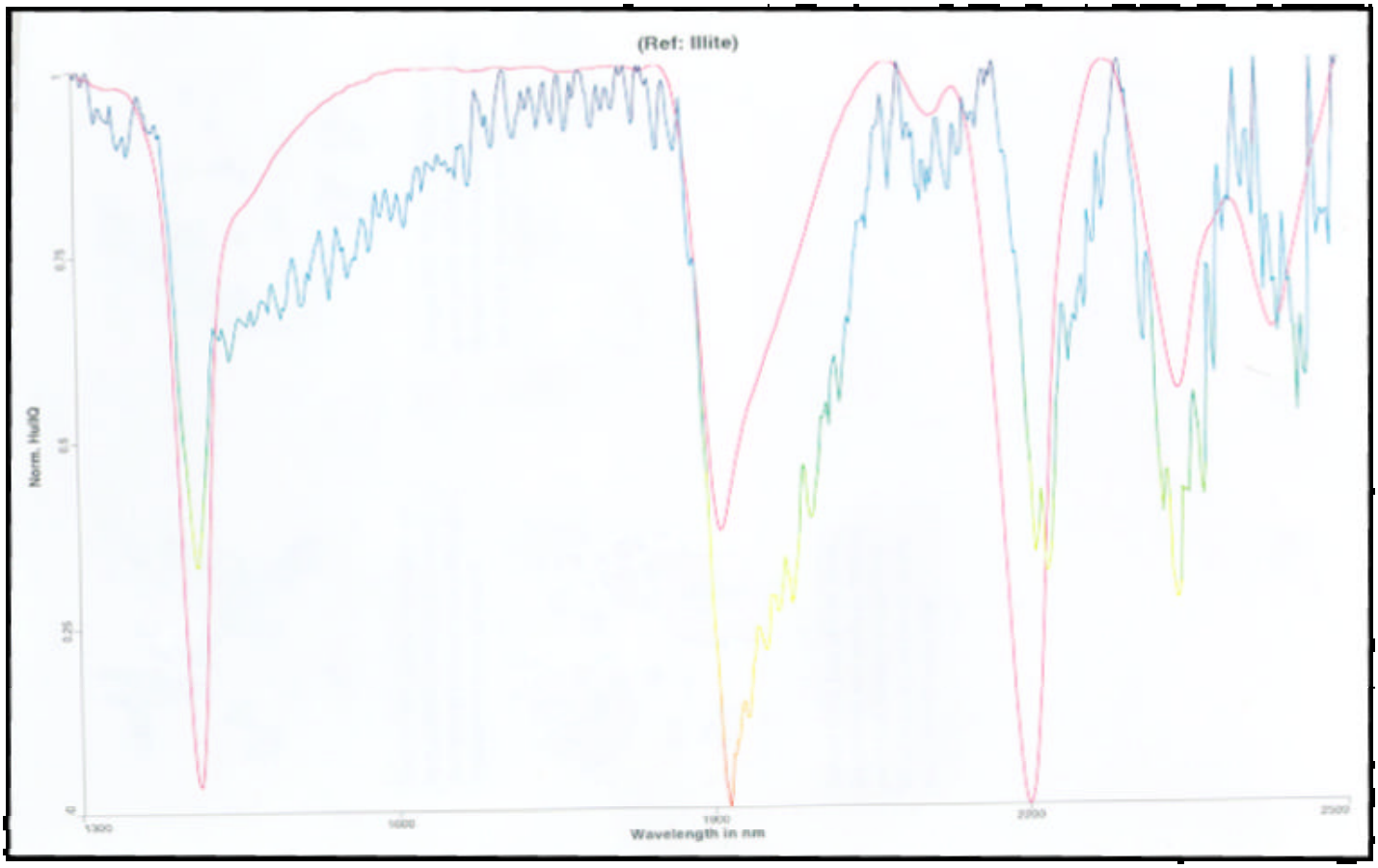
APPENDIX 3

PIMA INFRARED SPECTROMETRY

Index	Norm. HullQ	TSA Mineral1	TSA Group1	TSA Mineral2	TSA Group2	TSA Error
801		Muscovite	Al(OH)-1	Palygorskite	Mg(OH)-3	
802		NULL	NULL	NULL	NULL	
803		NULL	NULL	NULL	NULL	
804		Gypsum	Sulfates	NULL	NULL	
805		Illite	Al(OH)-1	Gypsum	Sulfates	
806		NULL	NULL	NULL	NULL	
807		Illite	Al(OH)-1	Gypsum	Sulfates	
808		NULL	NULL	NULL	NULL	
809		Illite	Al(OH)-1	NULL	NULL	
810		Phengite	Al(OH)-1	Brocantite	Sulfates	




(Ref: Illite)
Norm. Hull0
0
0.25
0.5
0.75
1
1500
2000
2500
Wavelength in nm


(Ref: Illite)
Norm. Hull0
0
0.25
0.5
0.75
1
1500
2000
2500
Wavelength in nm

APPENDIX 4

Table 5. Soil Geochemical data from The Bearox zone Pre-1998, used in R^2 values.

sample #	Au ppb	Ag ppm	As ppm	Sb ppm	Cu	Zn	Mo	Ba	Pb	Ca (%)
5225n 4995e	1019	1	6870	85	92	93	2	130	14	0.4
5225n 4996e	567	1	6585	100	97	84	8	90	12	0.34
5225n 4997e	1289	1.6	8400	100	87	90	4	90	12	0.38
5225n 4998e	884	1.6	8185	125	93	108	2	110	14	0.56
5225n 4999e	1528	1.6	10000	125	72	80	2	110	10	1.55
5225n 5000e	1099	1	9970	105	80	39	2	120	8	3.62
5225n 5001e	1553	1.4	10000	165	128	52	2	70	8	4.3
5225n 5002e	2919	4.4	10000	175	67	57	2	60	10	4.14
5225n 5003e	1729	1.4	9865	105	11	19	4	70	4	0.05
5225n 5004e	655	1.6	3180	65	27	27	10	40	8	0.06
5225n 50053	691	5	3665	65	63	66	6	60	14	0.14
5010n 5000e	43	0.2	625	80	59	115	2	230	14	0.58
5020n 4960e	35	0.4	695	35	73	154	2	180	16	0.24
5020n 4965e	43	0.2	1690	100	43	119	2	170	14	0.23
5020n 4970e	3	0.2	200	20	10	105	2	240	10	0.33
5020n 4975e	6	0.2	185	10	33	80	2	190	8	0.28
5020n 4980e	7	0.2	395	20	32	123	2	180	10	0.23
5020n 4985e	126	0.6	2070	50	50	111	2	90	16	0.2
5020n 4990e	57	0.2	1790	65	34	90	2	140	14	0.47
5020n 4995e	49	0.2	660	70	54	84	2	170	6	1.02
5020n 5010e	34	0.4	615	20	113	108	2	140	10	1.51
5020n 5015e	39	0.2	435	15	44	115	2	120	10	0.78
5020n 5020e	14	0.4	205	5	17	201	2	250	10	0.32
5050n 5025e	9	0.2	135	5	25	140	2	240	10	0.27
5020n 5030e	12	0.2	140	5	53	128	2	160	8	0.23
5020n 5035e	4	0.2	80	5	23	173	2	340	8	0.48
5020n 5040e	6	0.2	50	5	38	115	2	170	8	0.3
5080n 4970e	7	0.8	370	145	34	204	2	280	12	0.42
5080n 4975e	6	0.2	255	95	26	161	2	230	12	0.31
5080n 4980e	8	0.4	245	45	9	108	2	210	12	0.3
5080n 4985e	1739	0.2	5365	150	87	109	2	120	22	0.18
5080n 4990e	53	0.2	680	100	48	88	2	160	10	0.66
5080n 4995e	32	0.2	620	10	32	159	2	220	12	0.6
5080n 5000e	13	0.2	770	15	34	136	2	100	14	0.24
5080n 5005e	13	0.2	215	15	48	84	2	140	12	0.39
5080n 5010e	5	0.2	375	20	25	101	2	200	16	0.25
5080n 5015e	14	0.6	180	5	22	166	2	460	10	0.38
5080n 5020e	4	0.2	85	10	31	105	4	200	12	0.27
5080n 5025e	3	0.4	100	10	47	209	2	190	14	0.15
5100n 4985e	11	0.2	545	50	20	96	2	180	12	0.26
5100n 4990e	1070	1.6	5620	585	89	76	2	230	14	0.45
5100n 4995e	103	1	1900	30	63	136	2	130	20	0.69
5100n 5005e	51	0.4	1910	25	33	155	2	150	20	0.39
5100n 5010e	6	0.2	200	5	26	120	2	140	6	0.21
5100n 5015e	43	0.2	1055	15	35	144	2	160	12	0.34

5180n 4985e	2	0.2	435	50	13	121	2	120	10	0.53
Table 5:										
sample #	**Au ppb**	**Ag ppm**	**As ppm**	**Sb ppm**	**Cu**	**Zn**	**Mo**	**Ba**	**Pb**	**Ca (%)**
5180n 4990e	52	0.2	2310	295	103	86	2	160	8	1.63
5180n 5000e	7	0.2	110	10	87	98	4	210	10	1.39
5180n 5005e	3	0.2	50	5	58	118	10	170	10	0.42
5180n 5010e	1	0.2	15	5	42	214	8	120	14	0.15
5225n 4990e	33	0.2	205	15	68	64	2	240	14	0.6
5225n 4991e	56	0.4	760	15	56	77	2	200	12	0.57
5225n 4992e	574	0.8	3775	75	86	134	2	160	10	0.54
5225n 4993e	656	1.2	3675	65	98	86	4	140	16	0.46
5225n 4994e	1578	2.6	9405	130	153	119	8	120	28	0.49
5225n 4995e	1193	1.6	7575	95	175	105	10	80	24	0.38
5225n 4996e	1164	1.2	8450	95	128	112	14	110	22	0.37
5225n 4997e	1465	1.8	10000	270	117	96	10	100	20	0.47
5225n 4998e	3139	3.2	10000	220	127	141	4	150	28	0.77
5225n 4998e dup	968	2.4	10000	165	119	108	12	110	24	0.55
5225n 4999e	4584	5.8	10000	225	143	131	2	140	26	1.19
5225n 5000e	4839	147.2	10000	205	346	93	2	120	18	4.02
5225n 5001e	10000	7.8	10000	175	185	66	2	70	16	1.9
5225n 5001e dup	10000	7.8	10000	280	218	116	2	160	26	2
5225n 5002e	10000	9.6	10000	350	271	84	2	80	26	1.98
5225n 5004e	4617	7.2	10000	185	97	75	2	180	14	0.7
5240n 4985e	13	0.2	260	5	37	73	2	140	10	0.4
5240n 4990e	106	0.4	1410	10	26	166	2	140	10	0.2
5240n 4995e	535	1	5520	95	138	250	4	80	20	0.21
5240n 5000e	658	4.2	4290	110	118	113	14	80	20	0.11
5240n 5005e	13	0.2	510	10	15	153	2	230	12	0.2
5240n 5010e	1	0.2	95	5	28	161	2	210	16	0.24
5260n 4980e	36	0.2	2155	30	31	182	2	290	18	0.5
5260n 4985e	30	0.2	1890	25	58	89	2	50	14	0.28
5260n 4990e	60	0.4	2190	40	23	158	2	140	14	0.19
5260n 4995e	6	0.4	420	10	18	176	2	230	12	0.29
5260n 5000e	27	1	635	15	44	156	4	170	14	0.28
5260n 5005e	3	0.2	65	5	27	226	2	160	16	0.41
5340n 4970e	304	0.4	5125	90	29	115	2	220	18	0.64
5340n 4975e	1004	0.6	8115	85	57	105	2	110	18	0.44
5340n 4980e	115	0.2	2810	50	59	151	2	170	14	1.25
5340n 4985e	41	0.2	790	20	49	59	2	120	8	0.54
5340n 4990e	747	0.4	8500	80	87	73	2	110	12	0.35
5340n 4995e	541	1.4	3575	45	70	75	2	130	12	0.59
5340n 5000e	733	1.6	6275	70	103	95	2	140	14	1.03
5340n 5010e	6	0.2	60	5	81	67	2	150	8	0.19
5380n 4980e	23	0.2	495	10	66	96	2	160	8	0.61
5380n 4980e dup	15	0.4	555	10	50	111	2	140	8	0.48
5380n 4985e	14	0.2	545	10	56	79	2	180	10	0.83
5380n 4990e	39	0.4	695	15	77	86	2	170	10	0.93
5380n 4995e	172	0.2	1610	35	98	101	2	140	10	0.51

5180n 5015e	7	0.2	15	5	44	106	4	110	12	0.3
Table 5										
sample #	**Au ppb**	**Ag ppm**	**As ppm**	**Sb ppm**	**Cu**	**Zn**	**Mo**	**Ba**	**Pb**	**Ca (%)**
5000n 4860e	5	0.2	38	6	29	196	1	280	6	1.05
5000n 4880e	5	0.2	26	4	42	180	2	290	14	0.52
5000n 4900e	5	0.2	228	6	37	318	5	280	6	0.34
5000n 4920e	5	0.2	96	2	35	178	1	310	8	0.61
5000n 4940e	30	0.6	1370	58	26	122	1	420	8	0.32
5000n 4950e	1200	3	5580	68	10	88	1	310	14	0.4
5000n 4960e	5	0.2	566	12	38	82	1	190	6	0.39
5000n 4980e	310	0.2	3150	54	14	86	1	120	16	2.12
5000n 5040e	660	2	3890	34	25	46	1	310	18	0.75
5000n 5080e	5	0.2	38	2	54	80	1	120	6	0.42
5000n 5100e	5	0.2	30	2	41	190	1	390	12	1.96
5040n 4950e	205	0.8	1820	26	26	142	1	270	6	0.6
5050n 4940e	5	1.2	146	2	30	226	1	160	14	1.25
5050n 4950e	5	0.2	534	6	35	206	1	240	4	0.6
5050n 4960e	10	0.2	414	32	34	130	1	240	12	1.25
5050n 4970e	5	0.2	204	6	34	122	1	220	6	0.6
5050n 4980e	5	0.2	1395	20	30	84	1	150	6	0.49
5050n 4990e	5	0.2	124	2	38	132	1	230	4	0.78
5100n 4880e	5	0.2	30	2	48	178	1	230	4	0.37
5100n 4900e	5	0.2	202	6	47	114	1	90	2	0.47
5100n 4940e	5	0.2	38	2	39	196	1	270	8	0.34
5100n 4980e	5	0.2	396	24	35	110	1	160	4	0.32
5100n 5000e	5	2.4	6600	32	54	176	2	70	38	0.37
5100n 5020e	5	0.2	766	8	35	130	1	180	4	0.18
5150n 4940e	5	0.2	122	2	40	206	1	190	4	1.55
5150n 4950e	5	0.2	292	4	40	108	1	200	8	1.04
5150n 4970e	5	0.2	408	10	43	124	1	190	6	1.13
5150n 4980e	205	0.8	2410	24	58	62	1	110	6	1.14
5150n 5000e	5	0.2	86	2	37	84	1	160	4	0.2
5200n 4820e	5	0.2	20	2	42	286	1	270	6	0.48
5200n 4900e	5	0.2	24	2	34	306	3	210	14	0.51
5200n 4920e	5	0.2	32	2	34	180	1	200	6	0.53
5200n 4940e	5	0.2	44	2	66	222	1	140	12	0.6
5200n 4980e	5	0.2	450	4	53	248	1	160	12	0.59
5200n 4990e	760	0.2	3800	86	63	64	1	120	4	0.74
5200n 5020e	5	0.2	40	2	35	316	5	370	4	0.58
5200n 5080e	5	0.2	14	2	33	262	2	380	6	0.5
5200n 5120e	5	0.2	12	2	29	154	1	260	6	0.53
5300n 4920e	5	0.2	40	2	45	159	2	220	12	0.61
5300n 4940e	5	0.4	50	6	25	194	1	200	10	0.66
5300n 4960e	2610	1.6	10000	82	22	74	1	170	6	0.58
5300n 4980e	5	0.2	510	10	39	106	1	110	14	0.46
5300n 5010e	5	0.2	108	2	62	102	1	180	8	0.65
5300n 5020e	5	0.2	110	2	27	114	1	230	2	0.4
5300n 5040e	5	0.2	24	2	14	86	1	170	6	0.34

5300n 5060e	5	0.2	30	2	31	104	1	180	2	0.17
Table 5										
sample #	**Au ppb**	**Ag ppm**	**As ppm**	**Sb ppm**	**Cu**	**Zn**	**Mo**	**Ba**	**Pb**	**Ca (%)**
5300n 5080e	5	0.2	28	2	35	82	1	190	4	0.27
5300n 5100e	5	0.2	24	2	91	120	2	230	6	0.4
5400n 4840e	5	0.6	116	6	62	178	1	220	4	0.3
5400n 4900e	5	0.2	66	2	82	86	1	210	6	0.66
5400n 4920e	5	0.2	78	6	33	162	1	180	8	0.58
5400n 4940e	5	0.2	50	2	54	244	1	190	18	0.76
5400n 4960e	5	0.2	200	12	32	184	1	170	10	0.4
5400n 4980e	80	0.4	1060	12	83	132	4	110	12	0.33
5400n 5020e	5	0.2	30	2	36	86	3	250	4	0.34
5400n 5100e	5	0.2	34	2	54	56	1	140	4	0.39
5400n 5120e	5	0.2	14	2	108	106	1	140	6	0.52
5500n 4840e	5	0.2	68	2	34	86	1	230	2	0.27
5500n 4920e	5	0.2	58	2	33	92	1	290	8	0.47
5500n 4940e	5	0.2	62	4	50	190	1	190	10	0.61
5500n 4960e	5	0.2	196	2	23	134	1	180	4	0.51
5500n 4980e	5	0.2	1430	14	74	166	1	130	8	0.61
5500n 5000e	5	0.2	68	2	27	90	1	150	4	0.47
5500n 5020e	5	0.2	34	2	186	120	3	110	14	0.24
5500n 5040e	5	0.2	14	2	23	98	1	340	2	0.3
5500n 5100e	5	0.2	32	2	31	118	1	280	6	0.44
5500n 5120e	5	0.2	14	2	57	118	3	210	8	0.32
5500n 5140e	5	0.2	10	2	70	110	1	350	6	0.26
5550n 4960e	5	0.2	86	4	18	162	1	180	8	0.42
5550n 4980e	5	0.2	128	2	36	116	1	160	4	0.28
5550n 5010e	5	0.2	328	10	42	110	1	160	8	0.45
5550n 5030e	5	0.2	50	2	48	96	1	130	14	0.2
5550n 5050e	5	0.2	22	2	70	230	1	210	12	0.29
5550n 5070e	5	0.2	90	2	24	122	1	210	8	0.49
5600n 4880e	5	0.2	66	2	32	146	4	220	4	0.24
5600n 4980e	5	0.2	40	2	28	202	1	240	6	0.48
5600n 5000e	5	0.2	380	6	30	134	1	250	4	0.46
5600n 5020e	5	0.2	36	2	362	208	5	60	46	0.36
5600n 5040e	5	0.2	166	2	146	98	3	90	30	0.58
5600n 5060e	5	0.2	40	2	24	88	1	210	2	0.33
5600n 5080e	5	0.2	42	2	51	92	1	160	6	0.26
5650n 4960e	5	0.2	70	2	33	88	1	200	4	0.46
5650n 4980e	5	0.2	176	2	41	164	1	140	4	0.34
5650n 5000e	5	0.2	1150	12	41	216	1	210	12	0.36
5650n 5060e	5	0.2	1140	144	83	116	1	160	14	0.43
5700n 4900e	5	0.2	120	2	36	150	1	260	4	0.54
5700n 4920e	5	0.2	42	2	24	76	1	140	6	0.25
5700n 4940e	5	0.2	110	2	21	80	1	230	4	0.35
5700n 4960e	5	0.2	22	2	10	78	1	130	4	0.19
5700n 5020e	5	0.2	124	4	82	110	1	140	10	0.47
5700n 5040e	5	0.2	76	2	26	126	1	160	4	0.39

5700n 5060e	5	0.2	28	2	33	84	1	130	4	0.23
Table 5										
Sample #	**Au ppb**	**Ag ppm**	**As ppm**	**Sb ppm**	**Cu**	**Zn**	**Mo**	**Ba**	**Pb**	**Ca (%)**
5700n 5080e	5	0.2	42	2	44	76	1	120	2	0.23
5800n 4860e	5	0.2	52	2	30	94	1	230	8	0.29
5800n 4920e	5	0.2	144	2	42	64	2	150	2	0.58
5800n 4980e	5	0.2	52	2	59	108	1	160	2	0.5
5800n 5000e	5	0.2	40	8	73	86	1	170	18	0.59
5900n 4840e	5	0.2	76	2	40	240	1	320	8	0.3
5900n 4880e	5	0.2	34	2	79	166	2	200	14	0.67
5900n 4900e	5	0.2	46	2	69	108	1	170	14	0.35
5900n 4980e	5	0.2	106	6	109	148	1	210	6	0.36
5900n 5000e	5	0.2	56	2	25	162	1	250	8	0.47
5900n 5020e	5	0.2	64	2	32	92	1	200	6	0.39
5900n 5040e	5	0.2	390	6	100	94	1	110	14	0.32
6550n 5020e	60	0.2	338	6	107	90	1	150	10	0.42
5125n 5000e	5	0.2	482	4	38	126	1	150	6	0.2
5225n 5000e	17800	22	10000	174	325	86	1	150	2	2.02
5250n 5000e	210	0.4	2510	44	158	198	13	50	4	0.19
5750n 5000e	5	0.2	216	2	43	134	1	260	8	0.35