Rimfire Minerals Corporation

2001 GEOLOGICAL AND GEOCHEMICAL REPORT ON THE BILL PROPERTY

Located in the Spatsizi Area
Liard Mining Division
NTS 94E/12E, W, 94E/13E, W
57^{o} 47’ North Latitude
127^{o} 47' West Longitude

-prepared for-
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SUMMARY

The Bill property consists of 88 claim units covering approximately 22 km^2 of mountainous terrain in north-central British Columbia, 330 kilometres north of Smithers. Access to the property is currently by helicopter and float-plane, with the nearest road 75 kilometres to the southeast; the de-activated portion of the Omineca Mining Road extends to within 40 kilometres. Rimfire Minerals Corporation has an option to acquire 100% interest in the property.

The two main prospects (T-Bill and Park) on the Bill property were independently discovered in the early 1980's by Cominco and Du Pont, following up highly anomalous stream geochemistry. The companies joined forces to drill 3,023 metres on the T-Bill prospect in 1983-84, before allowing the property to lie dormant. Rimfire optioned the core of the property in May 2001, attracted by the kilometre-scale alteration and soil geochemistry at the T-Bill and the Park prospects. Later this year, Rimfire staked an additional 68 claim units and carried out initial geological and geochemical fieldwork.

The T-Bill prospect is underlain by penetratively deformed Devono-Permian Asitka Group metavolcanics which have been altered to carbonate-muscovite-quartz schist over an area of 1,200 x 2,300 metres. This alteration is confined to the core of a northeasterly-trending structural dome and is controlled both by foliation and by steep cross-cutting structures. Gold-rich quartz-arsenopyrite veins, locally with visible gold, are broadly co-spatial with the carbonate-muscovite alteration, although they extend into unaltered chlorite schists with only centimetre-scale alteration envelopes. Individual veins generally cut across foliation and are rarely wider than 30 centimetres, although swarms of veinlets are common. Du Pont/Cominco's best drill intersections include 2.0 metres @ 24.8 g/tonne Au, 4.0 metres @ 11.0 g/tonne Au and 2.0 metres @ 35.0 g/tonne Au. They may have been under-reported, since metallics (screen) assaying was not utilized, despite the presence of visible gold. Potential for a bulk-mineable target is indicated by broad low-grade intersections, including 149 metres @ 1.17 g/tonne Au and 164 metres @ 0.73 g/tonne Au, both of which bottomed in mineralization. The T-Bill prospect is marked by a strong 2 x 3 kilometre Au-As soil geochemical anomaly whose limits reflect masking by till and talus cover as much as by changes in alteration and mineralization of the underlying bedrock.

The Park prospect is centred less than two kilometres north of the T-Bill prospect's northern edge, across a broad valley which may mark a major east-west fault. The Park prospect is hosted by undeformed Takla Group volcanics, presumably down-dropped by the fault, which have been hornfelsed, silicified and pyritized by a multiphase intrusion. A 500 x 900 metre, open-ended, Au-Cu soil geochemical anomaly encloses two gossans. At the more prominent one, intensely silicified tuff in contact with crowded feldspar porphyry graded up to 2960 ppb Au. A more subtle gossan 500 metres to the southeast was formed from pyritic hornfels; limited prospecting yielded samples with 1405 and 3590 ppb Au.

2001 GEOLOGICAL AND GEOCHEMICAL REPORT ON THE BILL PROPERTY

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1.0 INTRODUCTION

The Bill property covers two distinct gold-bearing prospects in north-central British Columbia (Figure 1). The T-Bill prospect is a 3 km^2 area of carbonate alteration, highly anomalous Au-As soil geochemistry and gold-bearing quartz-sulphide veining. The Park prospect, located 3 kilometres to the north, is a poorly explained 0.5 km^2 Au-Cu soil geochemical anomaly centred on a prominent gossan. These two prospects were discovered independently through regional stream sediment sampling programs carried out by Cominco and Du Pont in the early 1980's. Cominco/Du Pont drilled the T-Bill prospect in 1983 and 1984, intersecting 2-metre intervals grading 24.8 and 35.0 g/tonne Au.

Rimfire Minerals Corporation acquired the Bill property in May 2001 and carried out initial fieldwork in July. Equity Engineering Ltd. was contracted to execute the 2001 Bill fieldwork and has been retained to report on its results.

2.0 PROPERTY TITLE

The Bill property (Figure 2) consists of 5 mineral claims totalling 88 contiguous units (22 km^2) in the Liard Mining Division of British Columbia, as summarized in Table 2.0.1. Records of the British Columbia Ministry of Energy and Mines indicate that all claims are held by Rimfire Minerals Corporation. Separate documents indicate that the claims are owned by Lorne Warren and John Mirko, who have granted Rimfire an option to acquire 100% of the property by making cash and share payments. The BT, BT 1 and BT 2 legal corner posts were located in the field by the author.

Table 2.0.1
Claim Data

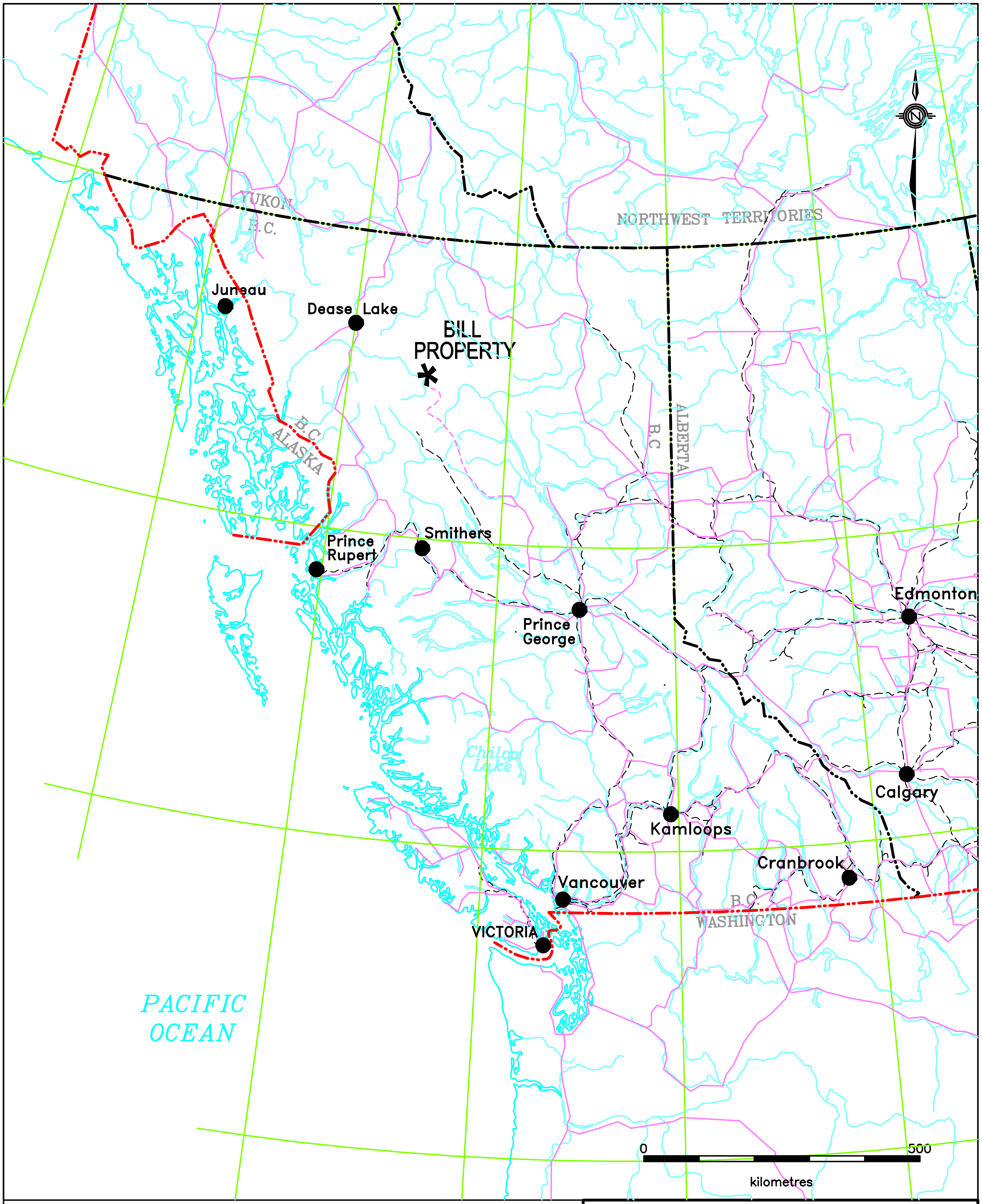
Claim Name	Mineral Tenure	No. of Units	Record Date	Expiry Date
BT	385785	20	April 21, 2001	April 21, 2002
BT 1	386612	20	May 16, 2001	May 16, 2002
BT 2	386613	20	May 16, 2001	May 16, 2002
BT 3	386614	8	May 17, 2001	May 17, 2002
GOS	386611	20	May 17, 2001	May 17, 2002
		88		

3.0 LOCATION, ACCESS AND GEOGRAPHY

The Bill property lies on the Spatsizi Plateau of north-central British Columbia, approximately 150 kilometres southeast of Dease Lake and 330 kilometres north of Smithers (Figure 1). It lies within the Liard Mining Division, centred at 57° 47' north latitude and 127° 47' west longitude.

Access to the Bill property for the 2001 program was by helicopter from Dease Lake and the Kemess Mine (100 kilometres to the southeast). Float planes can land on Jerry Lake, 15 kilometres west of the Bill property. The Omineca mining road continues past the Kemess Mine to the Sturdee airstrip, 75 kilometres southeast of the Bill; the portion between Sturdee and Albert's Hump (40 km southeast of the Bill) is no longer accessible.

The Bill property covers part of two major tributaries which flow southeasterly into the Park Creek, itself a tributary of the Stikine River. The property is moderately rugged and largely above tree-line. Elevations range from 1,210 metres in the Park Creek valley to over 2,000 metres along the crest of several ridges. The Bill prospect lies at 1,700-2,000 metres and the Park prospect at 1,550-1,800 metres elevation.



Highway

Railway

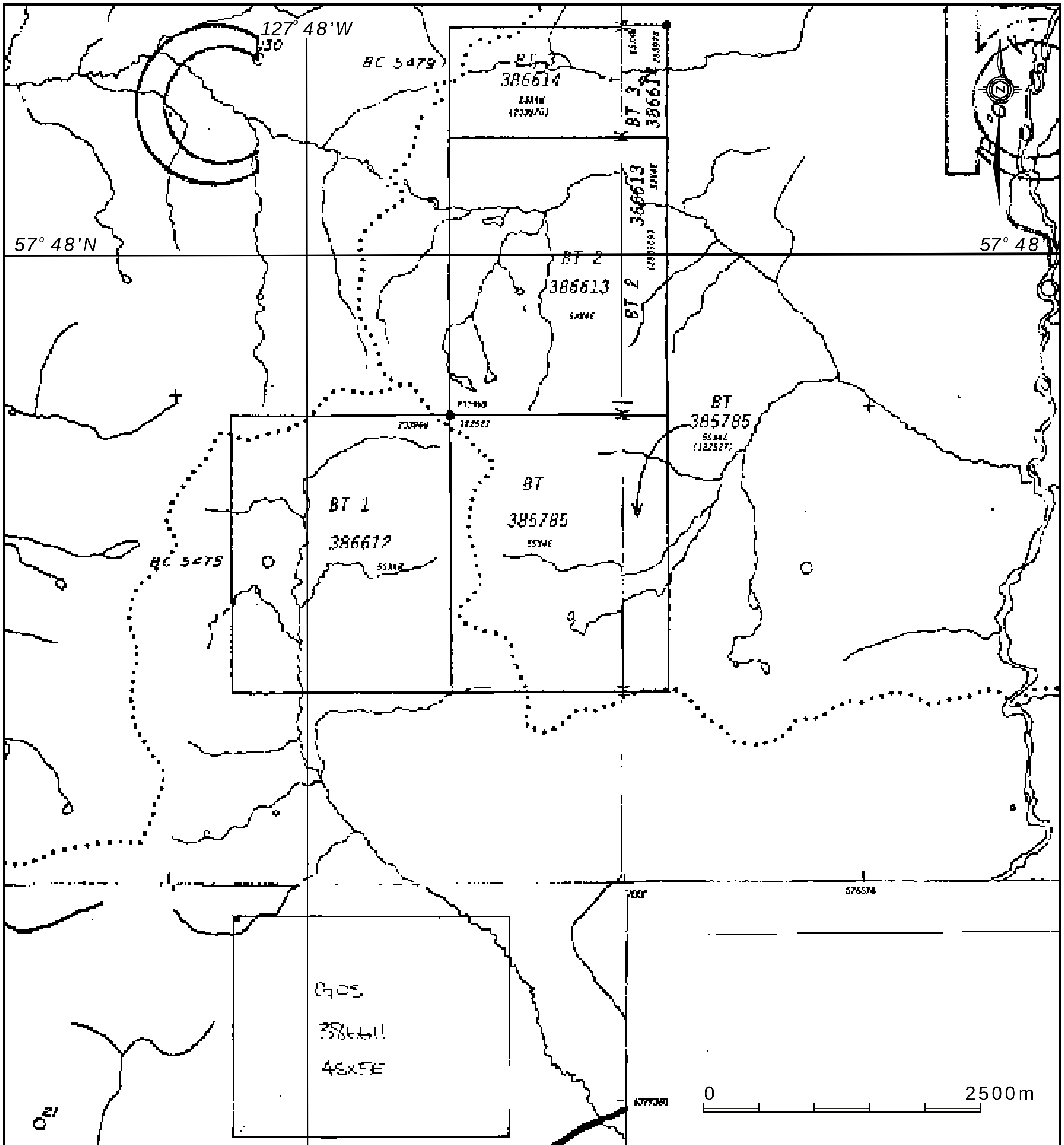
RIMFIRE MINERALS CORPORATION

BILL PROJECT

LOCATION MAP

Date	Scale	Figure
AUG 2001	1:10,000,000	1
U.T.M. Zone: LC CAN95	Mining District: LIARD	
N.T.S.: 94E/12,13	State/Province: BC	

EQ-BCLOC



RIMFIRE MINERALS CORPORATION

BILL PROPERTY

CLAIM MAP

Date	Aug2001	Scale	1:50,000	Figure
UTMZone	UTM(NAD83)9	MiningDistrict	Liard	2
NTS	94E/12,13	State/Prov.	BC	

4.0 PROPERTY EXPLORATION HISTORY

4.1 Previous Work

Table 4.1.1 summarizes all known exploration work carried out on the ground currently comprising the Bill property.

Table 4.1.1
Bill Exploration Programs

Operator Zones	Geochemistry	Geophysics	Trenching and Drilling	Reference
Cominco (1976)				
T-Bill, Gos	33 silts (Cu, Pb, Zn, Ag)			
Cominco (1979)				
T-Bill, Gos	22 silts (Au, As)			
Cominco (1980)				
T-Bill	86 soils			Sharp (1981)
Du Pont (1980)				
Park	53 bulk stream sediments, 2 rocks			Eccles (1981)
Cominco (1981)				
T-Bill	353 soils, 135 rocks		6 blast-trenches	Sharp (1982)
Du Pont (1981)				
	2 bulk stream sediments, 1 silt and 36 soil samples			Strain (1981)
Du Pont (1981)				
Park	8 bulk stream sediments, 16 silts, 188 soil samples, 47 rocks			Drown (1982)
Du Pont & Cominco (1982)				
T-Bill	275 soils, 52 rocks	4.8 km mag-VLF, 3.2 km IP	11 blast-trenches	Copland and Drown (1983), White (1982)
Du Pont (1982)				
Park	123 soils, 62 rocks		11 blast-trenches	Copland (1982)
Du Pont & Cominco (1983)				
T-Bill	148 soils	16.5(?) km mag-VLF	6 NQ DDH: 1,175m	Forbes and Drown (1984)
Du Pont & Cominco (1984)				
T-Bill	342 soils	10 km VLF	9 NQ DDH: 1,848m	Kowalchuk (1984), Paterson (1985)
Skylark & Comox (1987)				
Park	191 soils, 21 rocks	1.7 km VLF		McAtee and Burns (1988)
AGC Americas Gold (1995)				
Park	380 soils, 15 rocks			Krause (1996)
Antares & AGC Americas Gold (1998)				
Park		Airborne magnetics		Hawkins (1998)
Rimfire Minerals (2001)				
T-Bill, Park, Gos	10 silts, 117 soils, 49 rocks			This report
Totals	63 bulk sediments. 59 silts. 2.203 soils. 383 rocks	Ground: VLF. magnetics. IP Airborne: magnetics	28 blast-trenches 15 DDH: 3.023m (9,918')	

In 1976, Cominco Ltd. carried out a regional silt sampling program through the Toodoggone area, with analysis for Cu, Pb and Zn only. In 1979, roughly one-third of the sample pulps were analysed for Au and As; Cominco's Bill property was staked to cover the drainages of 10 samples exceeding 50 ppb Au (maximum values: 960 ppb Au, 2350 ppm As).

Cominco took a series of contour soil samples from the Bill claims in 1980, revealing a wide-spread Au-As soil geochemical anomaly in what is referred to here as the T-Bill Prospect (Sharp, 1981). The following year, they carried out grid soil sampling and mapping in the heart of the soil anomaly, defining an open-ended 1,400 x 1,800 metre Au-As soil geochemical anomaly with peak values of 4,620 ppb Au and 12,740 ppm As. The rock sampling and trenching returned erratic gold values to 15,800 ppb, associated with arsenopyrite-quartz veining (Sharp, 1982).

Meanwhile, Du Pont of Canada Exploration Limited had carried out a regional stream sediment survey in 1980, using field-sieved bulk samples for heavy mineral concentrate analysis. This work showed several Au anomalies on a tributary of Park Creek lying northeast of the Bill property and on Bill Creek, which drains the southwestern portion of the Bill property. A line of contour soils upstream from the Bill Creek anomaly returned background values and no further work was done in this area (Strain, 1981). To the northeast, Du Pont staked their Park claims adjacent to Cominco's Bill property and carried out initial silt sampling and mapping in 1980. Several gossans were recognized, mainly associated with the intrusive contact between granodiorite and chert. Several silt samples were anomalous in Au, As or Cu; most of them drained the T-Bill showings (Eccles, 1981). The following year, Du Pont expanded their Park property, filled in gaps in their silt coverage, and took reconnaissance soil samples over the entire property. Fifteen soil samples returned >100 ppb Au; five of these (the "Park" anomaly) were located around the westernmost gossan and the others were scattered over the remainder of the property. A 17-sample soil grid over the Park anomaly yielded up to 1670 ppb Au, 415 ppm Cu and 104 ppm As (Drown, 1982).

In 1982, Du Pont optioned the Bill property from Cominco and conducted separate exploration programs on it and the Park claims. On the Bill property, Du Pont verified Cominco's soil geochemical anomaly by detailing the core of it with samples spaced at 20 x 50 metres. Magnetic, VLF-EM and induced polarization surveys were carried out over the same E-W grid-lines. These showed NNW-trending linear magnetic lows and VLF conductors; a chargeability high from the IP survey was unrelated to soil geochemical anomalies and ascribed to graphitic schist. The blast trenches did not reach fresh bedrock and in each case chip samples from bedrock returned lower gold values than the overlying soil samples (Copland and Drown, 1983). On their wholly-owned Park property, Du Pont blasted trenches in the Park anomaly gossan, reporting a 4-metre zone of massive magnetite in one of the trenches and Fe-Mn "sinter". Again, bedrock analyses from the trenching returned significantly lower Au, As and Cu values than the soils immediately above (Copland, 1982) and Du Pont allowed the Park claims to lapse.

In 1983, Du Pont extended the mag/VLF survey and drilled six holes in the >500 ppb Au portion of the T-Bill soil anomaly, four of them directed to the east across the northerly-trending VLF conductors. Core was sampled in 2-metre intervals, regardless of geological contacts. All holes intersected quartz-arsenopyrite veining with the best intervals assaying 35.0 g/tonne Au over 2.0 metres (83-2) and 11.0 g/tonne Au over 4.0 metres (83-6). With this program, Du Pont's option was vested and they formed a 50/50 joint venture on the Bill with Cominco (Forbes and Drown, 1984).

It appeared from the 1983 drilling that the east-west holes were subparallel to the bulk of veining, so the following year Du Pont and Cominco carried out a new VLF-EM survey on north-south lines and drilled seven of nine holes to the north or south. Each of their holes cut intervals with >1 g/tonne Au, with the best sections assaying 16.5 g/tonne over 2.0 metres (84-2), 24.7 g/tonne over 1.5 metres (84-5) and 24.8 g/tonne over 2.0 metres (84-8). In addition, soil sampling extended the main T-Bill Au-As soil geochemical anomaly 600 metres to the northwest in the West Bowl and revealed a new 400 x 900 metre Au-As soil anomaly in the North Cirque (Kowalchuk, 1984). A structural study by Paterson (1985) indicated that ESE-trending quartz-carbonate-arsenopyrite veining was related to but post-dated property and their claims were allowed to lapse in 2001.

The Park gossan was re-staked in 1987 by Comox Resources Ltd. and optioned to Skylark Resources Ltd.. Skylark established a detailed 250 x 400 metre grid over the gossan for prospecting, soil geochemical and VLF-EM surveys. Soil samples returned up to 12,120 ppb Au, 1186 ppm Cu, 801 ppm As and 82 ppm Mo; the best rock sample contained 1580 ppb Au in quartz float (McAtee and Burns, 1988).

AGC Americas Gold Corp. staked the Park gossan in 1995 and carried out soil sampling over a 900 x 1000 metre grid. This survey showed the Au-Cu soil geochemical anomaly to be much larger than previously known, covering an area of 500 x 900 metres and open to the east and west (Krause, 1996). No further fieldwork was carried out on the Park property, but in 1997, AGC Americas and Antares Mining and Exploration Corporation participated in a joint GSC-industry airborne magnetic survey over the entire Toodoggone area, including the Park prospect (Hawkins, 1998).

4.2 2001 Exploration Program

Rimfire Minerals Corporation optioned the Bill property in May 2001, attracted by its large, poorly explained soil and silt geochemical anomalies, by the extent and high Au grades of the T-Bill mesothermal veining and by a large magnetic low centred immediately southeast of the T-Bill prospect. An initial program of prospecting, silt and soil geochemistry and core re-examination and sampling was carried out in July, with air support provided on a charter basis by Canadian Helicopters (Kemess base), Pacific Western Helicopters (Dease Lake base) and BC/Yukon Air Service (Dease Lake base). A magnetic declination of 24° 39'E was used for all compass measurements. All maps and UTMs are referenced to the 1983 North American Datum (NAD-83).

Reconnaissance soil samples were collected along contour or compass lines in areas where previous soil geochemical anomalies had not been closed off, and where gold-bearing silt samples had never been followed up. Wherever possible, soil samples were collected from the red-brown B horizon; poor soil development meant that most were actually collected from the C horizon. Sites were marked with orange flagging and a Tyvek tag. Silt samples were collected from the active parts of creeks in areas where no other work had previously been carried out. Rock samples were taken from mineralized and altered rocks during the course of prospecting. Rock sample descriptions are attached in Appendix C. Both silt and rock sample sites were marked by orange and blue flagging and aluminum tags.

Core from the 1983 and 1984 diamond drilling is stored at the 2001 camp site. The 1983 core and holes 84-6 to 84-9 were inaccessible, due to collapse of their core racks. The first five 1984 holes could be recovered, but were in poor condition from animal disturbance. They were examined and 14 previously unsampled sections were split for analysis (Appendices D.1-D.2). All samples were analyzed by ALS Chemex Labs of North Vancouver for Au and 34-element ICP, using an aqua regia digestion (Appendices E.1-E.2). Pulp assays were carried out for high geochemical values of Au, Ag, As, Cu, Pb or Zn; reject "metallics" Au assays were performed when geochemical values exceeded 5,000 ppb Au. Where available, the assays were used for plotting and calculations. The procedures, results and conclusions of the sampling quality control/quality assurance program are summarized in Appendix F. Locations for all 2001 silt, soil and rock samples are plotted on Figure 5.

5.0 REGIONAL GEOLOGY

The Bill property lies near the eastern edge of the Intermontane Belt in a fault mosaic of: Devonian to Permian Asitka Group carbonates and volcano-sedimentary rocks; the Carboniferous to Lower Triassic Cache Creek oceanic assemblage, including the Kutcho Formation; Triassic Stuhini and Takla volcano-sedimentary rocks; Lower Jurassic Toodoggone (subaerial) and undifferentiated Hazelton volcanic rocks and Laberge Group volcanic and epiclastic rocks (Figure 3).

Thorstad (1980) divided the Asitka Group rocks into five stratigraphic units in the vicinity of the Bill property. From oldest to youngest, these are: (1) feldspathic chlorite schist; (2) phyllite, sericite and calcareous sericite schist; (3) massive rhyolite, chert and sericite schist; (4) carbonate; and (5) upper feldspathic, chlorite schist. Dolomitic members from the middle of the sequence contain Mississippian crinoids. The Asitka Group rocks show evidence of two phases of pre-Jurassic penetrative deformation: primary layering is transposed to parallelism with a penetrative foliation, then overprinted by folding and a less penetrative foliation. Thorstad (1980) noted two predominant fold axis trends: one at 150° to 200°, associated with moderate to steeply west-dipping foliations; the other at 090° to 130° with shallow to moderately south-dipping foliations.

The Upper Triassic Takla Group is dominated by coarse augite-phyric basalt, finer aphyric basaltic andesite flows with lapilli tuff interbeds and volcanic breccia (Diakow et al, 1993).

The stratified rocks are intruded by a variety of Late Triassic and Early Jurassic stocks and batholiths of felsic to ultramafic composition. Most of the Early Jurassic quartz monzonites, granodiorites and quartz diorites are marked by a distinctive magnetic high; in particular, this applies to the intrusive immediately northeast of the Bill property. The quartz monzonite stock exposed on the southern part of the Bill property is the exception to this rule; it is characterized by a distinctive magnetic low almost ten kilometres across.

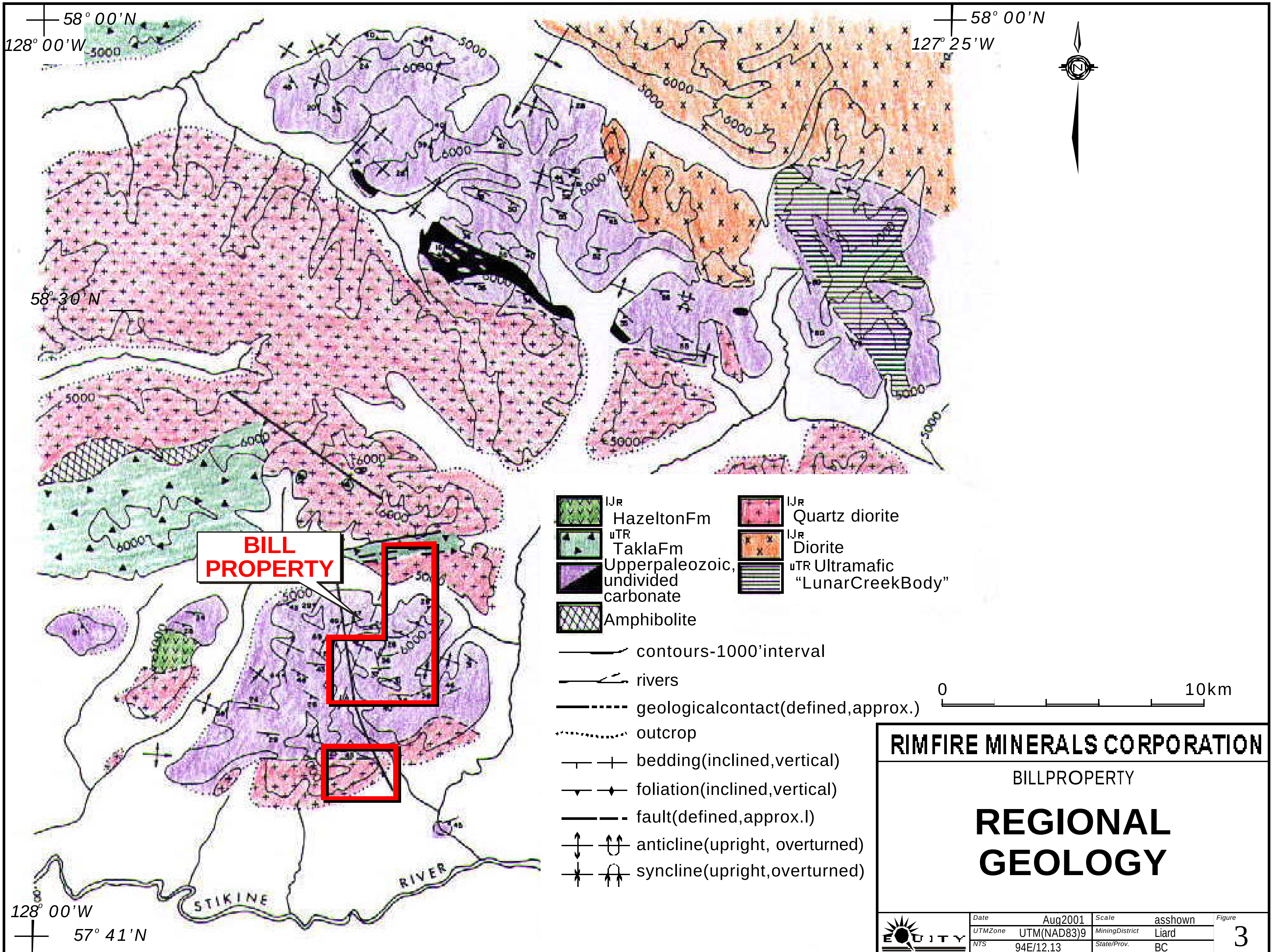
The Pitman Fault is a major E-W fault which passes 30 kilometres north of the Bill property. Alldrick (2000), who traced the Pitman Fault for 300 kilometres, states that there is 3 kilometres of left-lateral movement along it with minimal vertical offset, and that movement occurred during Eocene to Oligocene time. He characterizes it as an antithetic fault associated with the continental-scale displacement along the Northern Rocky Mountain Trench and notes that it is accompanied by subparallel faults of similar orientation, attitude and offset. Three of these major E-W faults have been mapped at the northern and southern extremities of the Bill property (Figure 4), one along the Stikine and Chukachida Rivers four kilometres south of the Gos claim and the other two passing through the BT 3 claim, north of the Park occurrence. A fourth could reasonably be inferred along the valley between the T-Bill and the Park prospects, downdropping undeformed Upper Triassic Takla Group volcanics to the north against deformed Paleozoic Asitka Group rocks to the south.

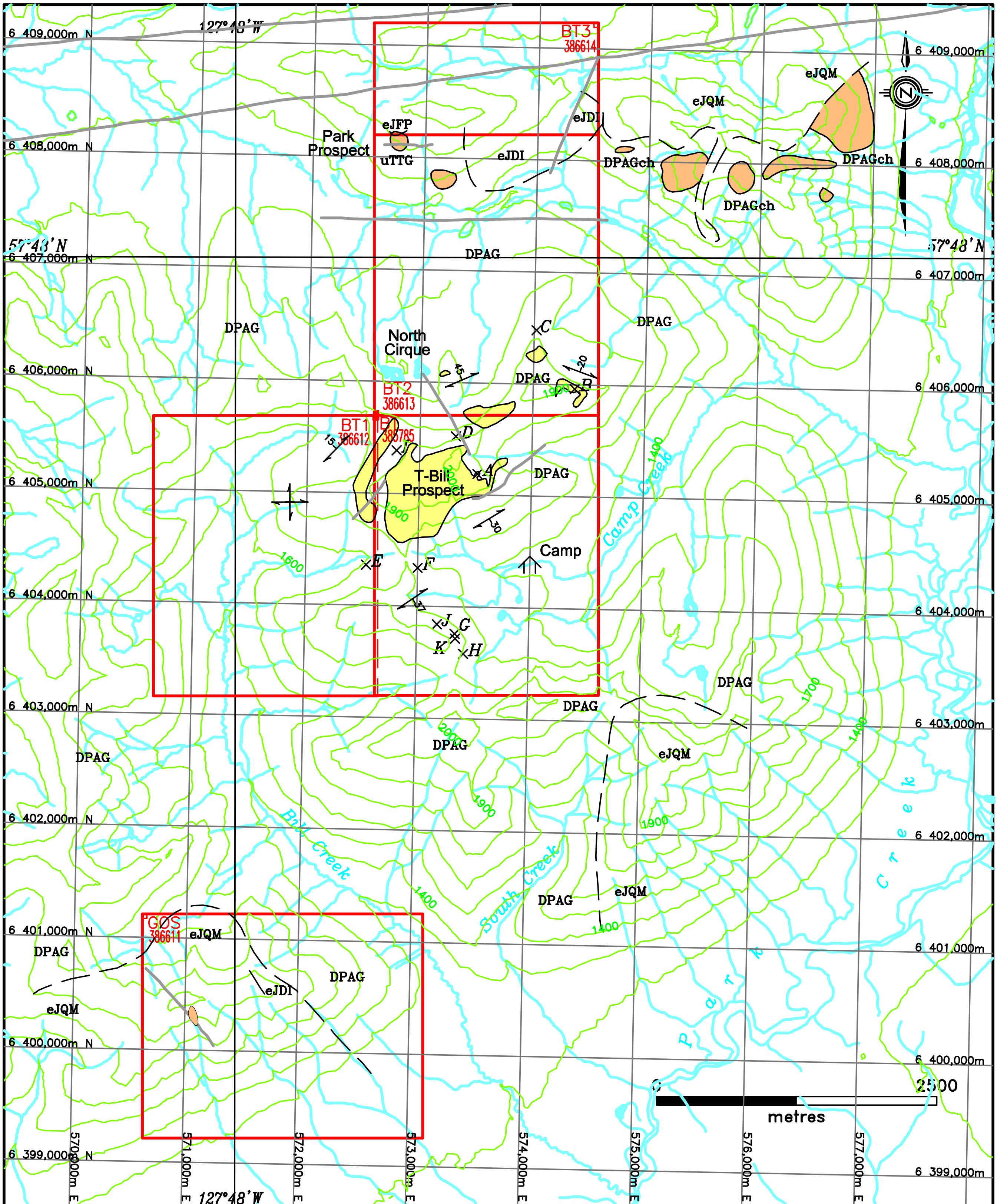
6.0 PROPERTY GEOLOGY

Only limited mapping was carried out on the Bill property in 2001. The property-wide geology in Figure 4 has been largely compiled from Thorstad (1980), Drown (1982) and Paterson (1985).

6.1 Lithology and Structure

Most of the Bill property is underlain by phyllites and schists of the Devonian-Permian Asitka Group (**Unit DPAG**). These have been penetratively deformed; primary textures and protoliths are not generally obvious. Paterson (1985) divided the Asitka schists into three stratigraphic units in the vicinity of the T-Bill prospect, without discerning age relationships. His “lower volcanic” unit, forming the large cliff to the south of camp, is composed of calcareous chlorite schist, chlorite-muscovite-feldspar schist and sericitic quartzite. Paterson believed the lower volcanic unit to be derived from at least 1500


58° 00'N
128° 00'W
58° 00'N
127° 25'W
58° 30'N
128° 00'W
57° 41'N
STIKINE
RIVER
BILL PROPERTY
lJR HaztonFm
uTR TaklaFm
Upperpaleozoic, undivided carbonate
Amphibolite
lJR Quartz diorite
lJR Diorite
uTR Ultramafic "LunarCreekBody"
contours-1000'interval
rivers
geologicalcontact(defined,approx.)
outcrop
bedding(inclined,vertical)
foliation(inclined,vertical)
fault(defined,approx.l)
anticline(upright, overturned)
syncline(upright,overturned)
0
10km
RIMFIRE MINERALS CORPORATION
BILLPROPERTY
REGIONAL GEOLOGY
Date Aug2001
Scale asshown
Figure 3
UTMZone UTM(NAD83)9
MiningDistrict Liard
NTS 94E/12,13
State/Prov. BC



LEGEND

LITHOLOGIES

EARLY JURASSIC
- eJQM — Quartz monzonite
- eJDI — Diorite
- eJFP — Crowded feldspar porphyry intrusive

UPPER TRIASSIC
- uTTG — *Takla Group:* Aphyric to feldspar-phyric volcanics and volcaniclastics

DEVONIAN TO PERMIAN
- DPAG — *Asitka Group:* Schists and phyllites derived from intermediate volcanics and sedimentary rocks
- DPAGch — *Asitka Group:* Chert

SYMBOLS

- Foliation (inclined, vertical)
- Lithological contact (inferred)
- Fault (inferred)
- Gossan
- Carbonate–muscovite–quartz alteration
- Legal corner post (located, approximate)

RIMFIRE MINERALS CORPORATION

BILL PROJECT

PROPERTY GEOLOGY

EQUITY

Bill-Geo

Date: August 2001	Scale: 1:50,000	Figure	4
U.T.M. Zone: UTM9(NAD83)	Mining District: Liard		
N.T.S.: 94E/12,13	State/Province: BC		

metres of intermediate tuffaceous volcaniclastics and cherts. His “middle sedimentary” unit, located primarily to the west of camp, is composed of buff-weathering limestone, argillaceous phyllite, graphite schist and calcareous greywacke. His “upper volcanic” unit consists of a sequence of chlorite schists and quartz-chlorite-feldspar schists; it has undergone extensive carbonatization and sericitization and hosts the quartz-arsenopyrite veining at the T-Bill prospect. Paterson interprets the upper volcanic unit to be a sequence of andesitic to rhyolitic tuffs and volcaniclastics with lesser mafic volcanics. In the vicinity of the T-Bill prospect, Paterson recognized Thorstad’s (1980) two phases of Triassic(?) penetrative deformation and a Mesozoic or Tertiary kinking. The kink folding accompanied a northeasterly-elongated doming of the foliation, centred on the T-Bill prospect.

Northeast of the property, the Asitka Group is dominated by dark grey chert (**Unit DPAGch**) with lesser tuffaceous sediments and andesitic volcanics (Drown, 1982). Further west, Drown assigned green, aphyric to feldspar-phyric volcanics to the Upper Triassic Takla Group (**Unit uTTG**). In the immediate vicinity of the Park prospect, these are represented by siliceous tuffs. The contact between the Asitka and Takla Group rocks has not been mapped.

An unfoliated quartz monzonite to granodiorite stock (**Unit eJQM**) intrudes Asitka Group schists on the GOS claim and immediately southeast of the BT claim. The stock is generally medium-grained and equigranular, but locally pegmatitic or aplitic and quite variable in composition. A pronounced magnetic low associated with this stock suggests that it may be about ten kilometres in diameter at depth, centred two kilometres southeast of the BT claim, although part of this magnetic low could be related to magnetite-destructive alteration such as that at the T-Bill prospect.

Another felsic stock (**Unit eJQM**) intrudes Asitka Group cherts to the northeast of the Bill property. Drown (1982) describes it as fine- to medium-grained, with phases ranging from rhyolite to granodiorite. A medium-grained diorite body (**Unit eJDI**) mapped by Drown immediately to the west may constitute a separate phase of this stock. A crowded feldspar porphyry intrusive (**Unit eJFP**) lies a little further west, along the north edge of the Park gossan; its extent is unknown, but it too is thought to be another phase of this stock. The entire stock, like almost all the Jurassic intrusions in the Toodoggone area, is characterized by a broad magnetic high; no magnetic susceptibility work has been done to separate the effects of the stock from those of its pyrrhotite-bearing hornfels. No dating has been carried out on any of the intrusives and their ages are a matter of conjecture.

6.2 Alteration and Mineralization

The Bill property hosts two main styles of alteration and gold-bearing mineralization: mesothermal arsenopyrite-bearing veins and disseminations (T-Bill prospect); and intrusive-related veining and silicification (Park and Gos prospects).

6.2.1 Mesothermal (T-Bill Prospect)

Asitka Group chlorite schists on the BT, BT 1 and BT 2 claims have been extensively altered to muscovite-carbonate-quartz schists over a northeasterly-trending area of 1,200 x 2,300 metres (Figure 4). On a large scale, this alteration appears mainly controlled by foliation (S_1) and by steeply-dipping NE-SW structures, and is largely confined to the core of the structural dome. In detail, the muscovite-carbonate-quartz alteration follows joints, fractures and foliation planes; it appears to pre-date gold deposition from an evolving hydrothermal fluid. Cominco dated the alteration at 136±5 Ma (Early Cretaceous), using K-Ar methods on muscovite from 110 metres depth in hole 84-1.

Paterson (1985) recognized three styles of gold mineralization at the T-Bill Prospect, spread over an area of 1,800 x 2,400 metres which roughly coincides with the muscovite-carbonate-quartz alteration:

- Disseminated and vein pyrite-arsenopyrite in carbonatized rock adjacent to mineralized veins (e.g. Showing D): Up to 20% sulphides in quartz-carbonate-muscovite schist is accompanied by <1 g/tonne Au;
- Brecciated quartz veins or carbonatized rock associated with movement on faults or joints (e.g. Showings A, F): The breccias are related to post-carbonatization and pre-mineralization faulting. The breccia matrix is composed of quartz-arsenopyrite-pyrite-carbonate±chalcopyrite; gold values are moderate.
- Quartz-carbonate-arsenopyrite-pyrite veins: These are responsible for all high-grade surface and core assays. They are planar tension veins, 0.2-30 centimetres wide, and occur in swarms. They commonly cross-cut foliation and are present in both chlorite schist and muscovite-carbonate-quartz alteration; in the chlorite schist they are enclosed by narrow bleached or carbonate-pyrite alteration envelopes. Although some of these veins lie outside of the pervasive carbonate-muscovite alteration, their distribution is broadly coincident with that of the alteration. Based on a study of vein orientations relative to foliation in drill core, Paterson (1985) calculated that most of these veins strike 100-120° and dip 60-90° to the north. Foliation-parallel shear locally offsets veining. Visible gold is present in higher-grade veins, some of which exceed 100 g/tonne Au.

Most of the mineralization in the T-Bill prospect is characterized by elevated Au and As and background levels of Ag, Cu, Pb, Sb and Zn. The Au:Ag ratio is 1:1 or higher and the As:Sb ratio is commonly >100:1. However, on the periphery of the T-Bill prospect, Showing C (at the northern extremity) and Showings H, J and K (at the southern extremity) indicate the possibility of zonation from the Au-As core outwards to mineralization with much higher Ag (Showings C and K), Ba (Showing J), Pb (Showing C), Sb (Showings C and K) and Zn (Showings C, H and K) contents.

The following descriptions of individual showings (Figures 4-8) within the T-Bill prospect are largely based on Paterson (1985).

Showing A

Showing A is a two metre wide, easterly-trending fractured and/or brecciated zone located 1000 metres northwest of camp. Veining and the breccia matrix are composed of quartz-arsenopyrite-pyrite±carbonate. The vertical faulting is left-lateral and has horizontal slickensides. Interestingly from a regional perspective, this is the same orientation and sense of displacement as the Pitman Fault and presumably its subparallel faults north and south of the Bill property. Showing A was not examined in 2001, but reported gold grades are extremely variable, even with abundant arsenopyrite.

Table 6.2.1.1
Showing A Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
P137-F	N/A	770	N/A	>10000	N/A	N/A	N/A	N/A	N/A	P(1985)
P138-F	N/A	1.9g/t	N/A	>10000	N/A	N/A	N/A	N/A	N/A	P(1985)
P212-F	N/A	110	0.2	>5000	12	N/A	3	1	10	P(1985)
P221-F	N/A	2.3g/t	0.5	>5000	16	N/A	5	4	8	P(1985)
P223-F	Float	21.7g/t	0.8	>5000	20	N/A	7	6	6	P(1985)
P224-F	N/A	11.0g/t	0.4	>5000	34	N/A	4	5	6	P(1985)
P225-F	N/A	890	1.4	>5000	34	N/A	11	16	6	P(1985)
P226-F	N/A	710	0.2	>5000	40	N/A	4	6	4	P(1985)
P240-O	2.0	70	<0.1	>5000	18	N/A	5	1	4	P(1985)
P241-O	N/A	30	3.8	4900	72	N/A	19	1	44	P(1985)
P242-O	N/A	40	0.3	250	10	N/A	4	1	62	P(1985)

P(1985): Paterson (1985) 2001: This report (Appendix C)

Showing B

Showing B is in a northeast-facing cirque 1,600 metres north of camp, near the northeastern end of the mapped belt of carbonate-muscovite-quartz alteration. Paterson (1985) reported two float boulders of brecciated quartz containing disseminated arsenopyrite and hypothesized that they came from narrow veins in altered schist in the cirque face.

Table 6.2.1.2
Showing B Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
272518	Float	5	<0.2	10	3	<1	<2	2	30	2001
P132-F	Float	190	N/A	1160	N/A	N/A	N/A	N/A	N/A	P(1985)
P133-F	Float	620	N/A	>10000	N/A	N/A	N/A	N/A	N/A	P(1985)

P(1985): Paterson (1985) 2001: This report (Appendix C)

Showing C

Showing C is located 2,100 metres north of camp in the same northeast-facing cirque as Showing B. It is a 40 centimetre vein of sphalerite, galena and pyrite in an ankerite-quartz matrix, filling a fault zone in carbonate-muscovite schist.

Table 6.2.1.3
Showing C Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
272519	Float	75	58.0	76	632	<1	1.28%	550	18.55%	2001

P(1985): Paterson (1985) 2001: This report (Appendix C)

Showing D

Showing D follows a northwesterly-trending gully in the north-facing cirque 1,300 metres northwest of camp. Paterson (1985) reports boulders of quartz-arsenopyrite veining and arsenopyrite-bearing quartz-ankerite alteration spalling out of a fracture zone along this gully. Sample 272515 was taken from quartz-ankerite alteration at the top of the gully which may form the wall-rock to veining at Showing D.

Table 6.2.1.4
Showing D Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
272515	0.15	35	0.6	208	12	<1	2	6	28	2001
P104-F	N/A	330	N/A	>10000	N/A	N/A	N/A	N/A	N/A	P(1985)
P265-F	N/A	660	0.4	>5000	20	N/A	12	2	16	P(1985)
P268-O	N/A	730	3.1	1300	290	N/A	26	2	24	P(1985)
P269-O	N/A	330	0.6	>5000	16	N/A	15	1	28	P(1985)

P(1985): Paterson (1985) 2001: This report (Appendix C)

Showing E

Showing E is located in a west-facing bowl 1,400 metres west of camp. Paterson (1985) describes it as a series of 10 centimetre quartz-arsenopyrite veins cutting carbonate-altered schists. Showing E was not found in 2001. Samples were taken from carbonate-altered schist and from quartz-pyrite veining, but no high-grade quartz-arsenopyrite veins were found.

Table 6.2.1.5
Showing E Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
272512	1.5	10	<0.2	14	350	<1	<2	2	26	2001
272513	Float	190	<0.2	510	9	<1	4	<2	<2	2001
272531	Float	15	<0.2	30	1	<1	<2	4	<2	2001
P285-O	Float	105.4g/t	2.6	>5000	180	N/A	92	4	4	P(1985)
P290-O	Float	2.3g/t	0.4	>5000	26	N/A	19	2	6	P(1985)

P(1985): Paterson (1985)   2001: This report (Appendix C)

Showing F

Showing F lies just below the ridgeline, about 1,000 metres west of camp. A fault-bounded zone, subparallel to foliation, of carbonate-muscovite alteration envelopes a strongly altered 3 metre wide zone with 10% pyrite and up to 5% arsenopyrite in small lenses.

Table 6.2.1.6
Showing F Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
51065	Float	1470	0.6	1.51%	5	<1	<2	12	<2	2001
272501	0.2	2800	6.0	1.86%	42	<1	66	10	10	2001
272502	0.6	305	2.8	3950	34	2	20	18	6	2001
560702	Float	5	0.4	18	201	<1	<2	<2	40	2001
560703	7.0	5	<0.2	18	17	<1	2	4	58	2001

P(1985): Paterson (1985)   2001: This report (Appendix C)

Showing G

Showing G is located on the northeast-facing ridge 900 metres southwest of camp. It consists of <10 cm cobbles of quartz-arsenopyrite-pyrite veining which seem to originate from a patch of reddish soil near the base of bluffs.

Table 6.2.1.7
Showing G Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
272523	Float	13.2g/t	1.4	5.52%	14	<1	66	54	116	2001
P276-F	N/A	15.7g/t	5.2	>5000	30	N/A	>5000	8	6	P(1985)

P(1985): Paterson (1985)   2001: This report (Appendix C)

Showing H

Located on the same slope as Showing G, this showing was described by Paterson (1985) as <4 centimetre quartz-arsenopyrite veins enveloped by 50 centimetres of bleached, altered wallrock within chlorite schist. It trends 275°/60°N, parallel to Showing A and the regional faults north and south of the property. Samples 272521 and 272522 were taken from the general vicinity of Showing H in 2001, but were not likely derived from the same structure.

Table 6.2.1.8
Showing H Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
272521	Float	1480	1.6	684	99	<1	44	14	596	2001
272522	0.2	605	1.8	536	192	1	4	26	184	2001
P270-F	Float	5.1g/t	3.5	4600	260	N/A	18	2	14	P(1985)
P271-F	Float	22.0g/t	9	>5000	1200	N/A	30	160	84	P(1985)
P272-O	N/A	110.0g/t	144	>5000	1350	N/A	>5000	3450	400	P(1985)
P274-O	N/A	49.4g/t	6.7	>5000	18	N/A	370	40	8	P(1985)

P(1985): Paterson (1985) 2001: This report (Appendix C)

Showing I

Showing I, located in the west-facing bowl 1,600 metres northwest of camp, consists of arsenopyrite-bearing boulders in a talus slope. This showing was not investigated in 2001, due to cornices overhanging the talus slope.

Table 6.2.1.9
Showing I Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
P308A	Float	162	N/A	0.64%	N/A	N/A	N/A	N/A	N/A	P(1985)
P308B	Float	15000	N/A	12.00%	N/A	N/A	N/A	N/A	N/A	P(1985)

P(1985): Paterson (1985) 2001: This report (Appendix C)

Showing J

Showing J was discovered in 2001, about 200 metres northwest along slope from Showing G. Sample 272524 consisted of a single vein boulder of bladed barite and pyrite-chalcopyrite blebs in a siderite matrix. A second quartz-pyrite boulder, sample 272525, at the same location was quite distinct mineralogically and in metal content.

Table 6.2.1.10
Showing J Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
272524	Float	250	0.8	494	1915	1	14	22	90	2001
272525	Float	4700	4.4	910	42	<1	30	70	52	2001

P(1985): Paterson (1985) 2001: This report (Appendix C)

Showing K

A few tens of metres above Showing G, sample 272520 was taken from a steeply-dipping, east-trending, quartz-carbonate-pyrite vein. Its relatively high Ag content distinguishes it from the other veining in the area.

Table 6.2.1.11
Showing K Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
272520	0.4	1500	142g/t	2190	583	<1	102	628	830	2001

P(1985): Paterson (1985) 2001: This report (Appendix C)

Drilled Area

In the vicinity of the 1983-84 drilling, outcrop is minimal and veining is present on surface only as sparse float boulders and cobbles. A few float samples were taken from this area in 2001 (Table 6.2.1.12), although the drilling gives a better representation of the style and tenor of mineralization.

Table 6.2.1.12
Drilled Area Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
51066	Float	115	2	5900	29	<1	48	22	18	2001
51067	Float	2290	0.6	9990	10	<1	8	4	10	2001
272503	Float	6.85g/t	0.8	6780	3	<1	2	2	2	2001
272504	Float	135	<0.2	144	3	<1	6	2	<2	2001

P(1985): Paterson (1985) 2001: This report (Appendix C)

6.2.2 Intrusive-Related Mineralization (Park and Gos)

Park Prospect

A multi-phase stock which extends east from the north end of the Bill property is responsible for several geochemically anomalous gossans near its contacts (Figure 4). Of these, only the Park prospect was examined in 2001, but Drown (1982) ascribed the others to bleaching and pyritization of chert adjacent to the intrusive.

The main Park gossan is an intense goethite-jarosite gossan developed along the contact between a crowded feldspar porphyry intrusive and siliceous tuff. A few hundred metres from the contact, the siliceous tuff is hornfelsed and variably chloritic. Within a few tens of metres of the contact, the tuff is intensely silicified and has boxwork developed after sulphides. Locally, the silicification is frothy, with drusy quartz lining some of the abundant voids. Float from the strongest silicification returned up to 2960 ppb Au. A weaker gossan extends a few tens of metres into the porphyry, with little silicification or sulphides. Copland (1982) reported 4 metres of massive magnetite in one of Du Pont's trenches at the downslope end of the most silicified area; this could not be verified, due to sloughing. His Fe-Mn "sinter" consists of blocks of ferricrete, indicating the abundance of sulphides in the intense silicification upslope.

A more subtle gossan is apparent through the trees and scrub about 500 metres southeast of the main Park gossan. Although outcrop is limited, this gossan too appears related to hornfelsing and pyritization. Only 5 rock samples were taken from this southeastern gossan, but two altered and pyritic ones, taken 300 metres apart, returned 1405 and 3590 ppb Au. Similar hornfelsing and pyritization is common, leaving open the possibility for extensive low-grade Au mineralization in this area.

Mineralization sampled in each gossan is accompanied by elevated Cu and Mo (max. 731 ppm Cu, 93 ppm Mo) and variable As levels. Both gossans are accompanied by Au+Cu±As soil geochemical anomalies which remain incompletely explained by rock sampling to date.

Table 6.2.2.1
Park Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
51068[1]	Float	55	0.8	112	110	13	2	4	14	2001
51069[1]	Float	295	1	48	160	2	4	<2	4	2001

Table 6.2.2.1 (continued)
Park Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
51070[1]	Float	2960	1.4	162	108	14	4	<2	2	2001
51071[1]	Float	170	0.2	22	10	6	2	<2	<2	2001
272526[2]	Float	155	<0.2	18	442	<1	<2	4	44	2001
272527[2]	Float	3590	0.2	92	110	3	<2	6	40	2001
272528[2]	Float	485	0.6	10	731	58	<2	6	34	2001
272529[2]	1.5	1405	4.2	82	221	6	10	6	26	2001
272530[2]	1.0	80	<0.2	86	420	10	2	6	22	2001
560704[1]	N/A	25	<0.2	8	77	15	2	<2	38	2001
560705[1]	Float	230	<0.2	10	36	93	<2	2	6	2001

2001: This report (Appendix C)
[1]Main Gossan [2]Southeast Gossan

Gos Prospect

A prominent 40-50 metre wide gossan on the south-facing slope of the GOS claim follows a northwesterly-trending gully along a fault zone within an equigranular, medium-grained granite. Float within the gully includes a variety of rock types, including: siliceous buff volcanic(?) fragments in a quartz-chlorite-pyrite matrix; clay-altered fault gouge; and fault breccia with <1 cm milled quartz fragments and disseminated specularite(?) in a rock flour matrix. Float sample 560706 (170 ppb Au) was taken from intensely silicified rock, similar in appearance to that found at the Park prospect's main gossan. Approximately 600 metres to the northwest, the granite hosts a stockwork of 15% quartz veinlets with low metal values (272535).

Table 6.2.2.2
Gos Mineralization

Sample Number	Width (m)	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)	Ref.
272534	5.0	<5	<0.2	2	10	<1	8	2	6	2001
272535	4.0	<5	<0.2	2	12	2	<2	<2	2	2001
560706	Float	170	<0.2	12	1040	3	2	2	<2	2001
560707	2.5	10	<0.2	<2	5	1	<2	<2	<2	2001

2001: This report (Appendix C)

6.3 1983-84 Core Re-Logging and Sampling

About a third of the 1983-84 drill core was re-examined in 2001, with an emphasis on holes 84-3, -4 and -5. Notes on mineralized sections are attached in Appendix D.1. A few more sections were split for analysis, covering previously unsampled mineralization and clarifying sampling problems. Including the new samples, Table 6.3.1 summarizes significant intersections (>1 g/tonne Au over 2 metres) from the 1983-84 drilling; intersections equating to >10 g/tonne Au over 3 metres are highlighted. Complete results are shown in Appendix D.2.

Table 6.3.1
1983-84 Drilling: Significant Intersections

Hole		From (m)	To (m)	Length (m)	Au (g/tonne)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
83-1		76.00	78.00	2.00	4.3	N/A	2500	N/A	N/A	N/A	N/A
		102.00	104.00	2.00	12.5	N/A	300	N/A	N/A	N/A	N/A

Table 6.3.1 (continued)
1983-84 Drilling: Significant Intersections

Hole		From (m)	To (m)	Length (m)	Au (g/tonne)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
83-1		132.00	134.00	2.00	2.9	N/A	<100	N/A	N/A	N/A	N/A
83-2		50.00	62.00	12.00	6.7	N/A	6617	N/A	N/A	N/A	N/A
	incl.	*52.00*	*54.00*	*2.00*	*35.0*	N/A	*11500*	N/A	N/A	N/A	N/A
		92.00	98.00	6.00	5.0	N/A	5733	N/A	N/A	N/A	N/A
	incl.	*94.00*	*96.00*	*2.00*	*11.9*	N/A	*4000*	N/A	N/A	N/A	N/A
		106.00	122.00	12.00	1.7	N/A	3533	N/A	N/A	N/A	N/A
	incl.	*120.00*	*122.00*	*2.00*	*5.1*	N/A	*12400*	N/A	N/A	N/A	N/A
		130.00	136.00	6.00	1.2	N/A	6767	N/A	N/A	N/A	N/A
		166.00	168.00	2.00	1.3	N/A	2600	N/A	N/A	N/A	N/A
		186.00	190.00	4.00	1.0	N/A	3100	N/A	N/A	N/A	N/A
83-3		14.00	16.00	2.00	1.2	N/A	200	N/A	N/A	N/A	N/A
		58.00	62.00	4.00	1.6	N/A	2100	N/A	N/A	N/A	N/A
		64.00	66.00	2.00	1.1	N/A	2200	N/A	N/A	N/A	N/A
		114.00	116.00	2.00	1.7	N/A	1200	N/A	N/A	N/A	N/A
83-4		16.00	18.00	2.00	1.2	N/A	<100	N/A	N/A	N/A	N/A
83-6		60.00	62.00	2.00	13.8	N/A	5500	N/A	N/A	N/A	N/A
		116.00	128.00	12.00	6.1	N/A	2150	N/A	N/A	N/A	N/A
	incl.	*116.00*	*120.00*	*4.00*	*11.0*	N/A	*2300*	N/A	N/A	N/A	N/A
	and	*126.00*	*128.00*	*2.00*	*12.0*	N/A	*7400*	N/A	N/A	N/A	N/A
		208.00	210.00	2.00	2.5	N/A	<100	N/A	N/A	N/A	N/A
		222.00	224.00	2.00	1.3	N/A	400	N/A	N/A	N/A	N/A
84-1		76.40	78.40	2.00	1.6	0.1	3500	8	2	1	22
84-2		51.80	53.80	2.00	1.0	0.4	>10000	10	2	1	22
		88.20	90.20	2.00	1.4	0.2	210	9	1	1	28
		133.20	139.20	6.00	1.8	0.1	3537	16	1	1	34
		145.90	148.10	2.20	2.6	<0.1	2700	15	1	1	66
		179.20	181.20	2.00	1.4	<0.1	6300	47	7	1	26
		183.20	186.70	3.50	10.3	0.1	633	21	3	1	37
	incl.	*183.20*	*185.20*	*2.00*	*16.5*	*0.2*	*500*	*14*	*4*	*1*	*24*
		208.40	214.40	6.00	5.9	0.3	3583	41	2	1	69
	incl.	*212.40*	*214.40*	*2.00*	*15.6*	*0.2*	*850*	*38*	*1*	*1*	*66*
84-3		63.30	73.30	10.00	1.8	0.4	2548	36	3	1	36
		105.50	107.50	2.00	5.5	0.6	2350	44	1	1	36
		111.50	113.50	2.00	2.0	0.6	5400	46	5	1	50
		145.00	146.00	1.00	1.6	0.2	>10000	24	1	1	26
84-4		9.14	14.00	4.86	2.4	0.1	5643	34	1	1	47
		109.30	110.00	0.70	1.4	-0.1	1540	26	1	1	40
		172.50	173.00	0.50	25.6	6.2	28300	12	178	74	144
84-5		48.50	51.50	3.00	12.7	0.4	2500	64	4	1	44
	incl.	*48.50*	*50.00*	*1.50*	*24.7*	*0.1*	*2600*	*60*	*4*	*1*	*26*
		130.80	132.90	2.10	4.1	7.9	>5000	760	15	140	48
		179.90	181.90	2.00	1.5	0.2	>5000	22	3	1	32
		233.70	234.70	1.00	3.5	0.4	>5000	82	7	1	38
		244.40	244.60	0.20	9.3	1.8	9900	7	4	2	10
		268.50	270.50	2.00	1.1	0.2	2900	32	7	1	60
84-6		87.20	87.50	0.30	1.8	<0.1	50	34	1	1	48
		108.00	108.50	0.50	4.2	<0.1	4600	30	2	1	62
		114.60	116.60	2.00	1.3	<0.1	2300	22	1	1	60
84-7		31.30	32.30	1.00	2.1	28	4600	1550	4	24	54
		65.80	66.10	0.30	21.1	0.8	>5000	98	15	2	38
		91.10	99.10	8.00	1.1	0.2	3925	31	1	1	46
		102.30	104.30	2.00	5.0	0.5	4600	52	1	1	36

Table 6.3.1 (continued)
1983-84 Drilling: Significant Intersections

Hole		From (m)	To (m)	Length (m)	Au (g/tonne)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
84-7		111.8	114.9	3.10	7.8	0.2	4690	15	1	1	41
	incl.	*111.80*	*113.30*	*1.50*	*15.5*	*0.3*	*>5000*	*18*	*1*	*1*	*40*
		125.2	129.2	4.00	3.6	0.2	2495	22	15	1	48
	incl.	*127.20*	*129.20*	*2.00*	*6.5*	*0.2*	*4500*	*22*	*26*	*1*	*45*
84-8		16.10	18.20	2.10	1.9	0.4	3900	68	8	1	70
		29.00	36.10	7.10	7.9	0.1	2921	23	3	1	76
	incl.	*31.90*	*33.90*	*2.00*	*24.8*	*0.1*	*3000*	*24*	*4*	*1*	*70*
		48.20	50.60	2.40	4.5	3.0	>5000	36	142	2	1220
		63.70	65.70	2.00	2.9	0.1	2050	16	1	1	96
		168.00	169.40	1.40	2.2	<0.1	1600	6	1	1	72
84-9		113.60	115.60	2.00	1.9	0.9	>5000	34	52	3	66
		152.60	154.60	2.00	2.0	0.8	>5000	40	37	1	46

Table 6.3.2 summarizes intersections with >50 metres exceeding 0.5 g/tonne Au. Some of them are simply an artefact of spreading a few gold-rich intervals over a broad intersection. However, some drill holes contain extensive widths of low-grade gold values due to multiple vein swarms and gold-bearing alteration. Despite the incomplete assaying for the 1984 holes, which lowers the average gold grade reported below, these broad low-grade intersections indicate potential for a bulk-mineable target at the T-Bill prospect.

Table 6.3.2
1983-84 Drilling: Broad, Low-grade Intersections

Hole	From (m)	To (m)	Length (m)	Au (g/tonne)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
83-1	60.00	176.00	116.00	0.58	N/A	93	N/A	N/A	N/A	N/A
83-2	50.00	198.73[5]	148.73[5]	1.17	N/A	2381	N/A	N/A	N/A	N/A
83-6	60.00	224.00	164.00	0.73	N/A	1383	N/A	N/A	N/A	N/A
84-2	57.80	218.20[5]	166.40[1,5]	0.62	0.1	809	12	1	1	25
84-3	29.00	113.50	84.50	0.56	0.5	1544	35	15	1	43
84-5	48.50	135.50	87.00[2]	0.61	0.5	682	60	5	4	34
84-7	65.80	129.20	63.40[3]	1.02	0.1	1272	9	1	0	16
84-8	9.70	85.0	75.30[4]	1.07	0.2	1043	12	15	0	122

[1]Only 92.7 metres have been sampled; the remaining 73.7 metres were assigned zero grade.
[2]Only 60.3 metres have been sampled; the remaining 26.7 metres were assigned zero grade.
[3]Only 21.0 metres have been sampled; the remaining 42.4 metres were assigned zero grade.
[4]Only 31.5 metres have been sampled; the remaining 43.8 metres were assigned zero grade.
[5]End of hole (bottomed in mineralization)

7.0 GEOCHEMISTRY

7.1 Silt Geochemistry

During the 2001 program, 10 silt samples were collected from creeks draining previously unexplored ground (Figure 5). Figures 6-8 show Au, As and Cu results for these silts and those collected from 1976-1981 by Cominco and Du Pont and analysed with less reliable methods. Percentiles for the entire data set are summarized in Table 7.1.1.

Table 7.1.1
Silt Geochemistry Percentiles

Percentile	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
50th	20	0.3	46	50	3	8	39	82
80th	65	1.0	244	93	9	15	65	111
90th	220	1.3	628	127	10	19	90	152
95th	540	1.4	1084	141	11	21	103	183
98th	1314	1.7	1426	165	14	31	108	252
Maximum Value	3500	2.6	2300	221	21	75	110	334
Population	121	74	59	173	45	172	26	172

The 2001 silt sampling showed two little-explored drainages of interest, southwest and southeast of the T-Bill Prospect. Samples 01HASS-01 to -03 (20-165 ppb Au, 178-384 ppm As) were taken from a creek which drains west into Bill Creek from the ridge whose other flank hosts Showings G, H and J. Eighteen contour soil samples had previously been taken from near the ridgeline in this drainage, returning spotty high Au and As values.

Samples 01HASS-08 to -10 (20-95 ppb Au, 20-46 ppm As) were taken from a south-draining creek ("South Creek") located about a kilometre southeast of the south end of the T-Bill Prospect. Cominco had taken a silt sample with 540 ppb Au from this creek in 1976, but no further work had ever been reported. This creek drains the contact between variably altered Asitka Group schists and the Early Jurassic quartz monzonite stock.

Silt samples 01HASS-04 to -07 were taken from creeks draining east into Bill Creek. Except for 01HASS-06, with 82 ppm As, results were low for all metals.

7.2 Soil Geochemistry

During the 2001 program, 117 soil samples were collected from the Bill property. Most of these were taken along contour lines or grid lines in previously unsampled areas or in areas where reported soil anomalies had not been closed off (Figure 5). For completeness, Figures 6-8 include 1,662 soils collected in previous programs. Since some areas of the property have been sampled and re-sampled repeatedly in different campaigns, only the most recent or most detailed sampling have been included in Figures 6-8. Although most of the samples were only analysed for a few elements and the data are not strictly comparable, given the varying analytical methods used, percentiles and the correlation matrix in Tables 7.2.1 and 7.2.2 were calculated from all 1,779 soil samples on Figures 6-8.

Table 7.2.1
Soil Geochemistry Percentiles

Percentile	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
50th	40	0.2	184	54	1	12	6	66
80th	220	0.8	841	133	2	17	25	82
90th	475	1.0	1476	189	3	20	35	90
95th	930	1.2	2300	278	3	24	45	99
98th	1772	1.3	3606	428	4	35	60	117
Maximum Value	9600	5.3	12740	1166	4	560	105	4500
Population	1779	729	1445	659	117	659	274	355

Table 7.2.2
Soil Geochemistry Correlation Matrix

	Au	Ag	As	Cu	Mo	Pb	Sb	Zn
Au	---							
Ag	0.22	---						
As	0.41	0.33	---					
Cu	0.44	0.16	0.27	---				
Mo	-0.01	-0.28	-0.09	0.38	---			
Pb	0.09	0.14	0.07	0.32	0.34	---		
Sb	-0.01	0.41	-0.08	0.06	0.14	0.04	---	
Zn	-0.04	0.10	0.08	0.67	0.43	0.96	-0.02	---

As would be expected from the mineralization described on the Bill property, the soils show strong correlations for Au-As (characteristic of the T-Bill prospect) and Au-Cu (especially prominent at the Park and Gos prospects). There is an excellent correlation in soils between Pb and Zn, neither of which is associated with precious metals, and good correlation between them and Cu-Mo. There is no correlation between As and Sb.

A strong Au-As soil geochemical anomaly, defined by >100 ppb Au and >200 ppm As, covers an area of 2 x 3 km over the T-Bill prospect. The majority of this anomaly lies above tree-line on gentle to moderate grassy slopes; solifluction lobes are common. Rock outcrop is sparse throughout most of the soil anomaly, although float is present in frost boils and talus patches. In 2001, soil sampling was carried out at the T-Bill anomaly's northern and western tips, where previous sampling had not closed off the anomaly. On the western edge, two contour soil lines were run at 1700 and 1790 metres elevation, returning up to 930 ppb Au and 1350 ppm As. Much of the soil on these lines was derived from talus and the anomalous results reflect downslope dispersion more than bedrock mineralization. However, the highest values are directly below bedrock and extend the T-Bill geochemical anomaly 500 metres to the west.

Soil samples were taken in 2001 from two grid lines run 200 and 300 metres north of the northernmost soil sampling previously carried out on the T-Bill anomaly. These lines cross a gentle mound in the floor of North Cirque which had previously returned anomalous Au and As in soil samples. Outcrop is scarce in this vicinity, limited to a few exposures in creeks and at the base of the ridge, but is thought to underlie most of the mound. Much of the 2001 soil sampling was carried out over till away from the mound and returned background values. However, samples near the midpoint of the southern line were taken from residual soils near the tail of the mound and returned values up to 160 ppb Au and 170 ppm As. This sampling extends the T-Bill soil anomaly by 200 metres to the north and indicates that its northern boundary is a function of till cover rather than metal-deficient bedrock.

A contour soil line was run at 1760 metres elevation to cover the western branch of South Creek, where Cominco had previously reported a 540 ppb Au silt sample. To the southwest of the creek, the soil samples returned background values for all elements. However, sampling in the bowl to the east of this creek gave weakly elevated gold and arsenic values (maximum: 140 ppb Au, 94 ppm As). Soils in this bowl are largely derived from talus of variably altered chlorite schist.

On the Gos claim, a contour soil line at 1740 metres elevation was run downslope from a prominent gossan, in a drainage that had previously yielded a silt sample with 280 ppb Au. Most of the line returned 20-50 ppb Au, but accompanied by only 2-8 ppm As. The highest values (165 and 220 ppb Au) were taken in the vicinity of the gossan and probably reflect fault-related mineralization associated with it.

8.0 DISCUSSION AND CONCLUSIONS

The Bill property hosts two distinct, but possibly related, styles of gold mineralization: mesothermal and intrusion-related. Most previous exploration has been focused on the mesothermal mineralization of the T-Bill prospect, where a package of Devono-Permian metavolcanics has been altered to carbonate-muscovite-quartz schist over an area of 1,200 x 2,300 metres. This alteration is confined to the core of a northeasterly-trending structural dome and is controlled both by foliation and by steep cross-cutting structures. Gold-rich quartz-arsenopyrite veins are broadly co-spatial with the carbonate-muscovite alteration, although they extend into unaltered chlorite schist with only centimetre-scale alteration envelopes. Individual veins generally cut across foliation and are rarely wider than 30 centimetres, although vein swarms are common. The best drill intersections include 2.0 metres @ 35.0 g/tonne Au (83-2), 4.0 metres @ 11.0 g/tonne Au (83-6) and 2.0 metres @ 24.8 g/tonne Au (84-8). The T-Bill prospect is marked by a strong 2 x 3 kilometre Au-As soil geochemical anomaly covering a grassy slope; its limits reflect masking by till and talus cover rather than bedrock changes in alteration and mineralization.

The 1983-84 diamond drilling program on the T-Bill prospect cut dozens of gold-bearing intervals but did not define controls governing the location and intensity of the quartz-arsenopyrite veining. In particular, no major controlling structure has been recognized. Discovering the ore controls is made more difficult by the lack of surface exposure within the altered zone and its accompanying Au-As soil geochemical anomaly. On a very broad scale, there appears to be metal zonation outward from Au-As in the heart of the zone to higher Ag, Ba, Pb, Sb and Zn toward its periphery. Showings C, H, J and K, each of which has elevated levels of one or more of these elements, are located to the north and south of the carbonate-altered schists and may mark the limits of the hydrothermal system in these directions. No equivalent “peripheral” veining has been found to the east or west, implying that the system could extend in these directions under till and talus cover.

The main focus on the T-Bill prospect has been to identify high-grade veins or vein swarms amenable to underground mining. While this should remain the highest priority, drilling has indicated potential for broad zones of lower-grade mineralization. As an example, hole 84-2 averaged 0.62 g/tonne Au across 166 metres, despite assuming zero grade for unsampled sections, and hole 83-2 averaged 1.17 g/tonne Au across 149 metres; both holes bottomed in mineralization.

Although visible gold was noted in core, no metallics (screen) assaying was carried out on it prior to the current program. Four of the 2001 rock and core samples exceeded 5000 ppb Au on initial analysis and were subjected to metallics assaying. A metallics assay takes the conventional fire assay on pulverized rock and adds the coarse gold left on the screens during sample preparation, giving a truer estimate of total gold grade than a simple fire assay. Three of the four samples showed coarse gold to be a significant factor, with the grade increasing by 22-113% with metallics assaying (Appendix F). It is very likely that some of the better intersections previously reported by Du Pont and Cominco were also substantially under-reported by ignoring the presence of coarse gold.

The intrusion-related gold mineralization at the Gos and Park prospects has received less exploration and is not as well understood as the mesothermal T-Bill veining. At the Park prospect, a 500 x 900 metre open-ended Au-Cu±As soil geochemical anomaly overlies hornfelsed, silicified and pyritized volcanics. Limited prospecting in 2001 yielded up to 3590 ppb Au from fairly mundane-appearing rocks and this area may have potential for extensive low-grade mineralization.

It would seem highly coincidental to have two totally unrelated kilometre-scale gold-mineralizing systems within a few kilometres of each other, as the T-Bill and the Park prospects are. An intriguing alternative would have the T-Bill and Park as different manifestations of roughly coeval Jurassic or Cretaceous intrusion-related systems. The T-Bill prospect is draped over a dome which post-dates the regional deformation. It has been suggested that the dome reflects an intrusion at depth, although no felsic dykes were encountered in drilling. A >10 kilometre bulls-eye magnetic low is centred on the quartz monzonite stock southeast of the T-Bill prospect and extends under it; a satellite stock or apophysis may have created the doming and the T-Bill mineralizing system. The Park and T-Bill prospects are likely separated by a major east-west post-mineral fault which downdropped undeformed Takla Group volcanics (Park) to the north against deformed Asitka Group rocks (T-Bill) to the south. Presumably, at the time of intrusion and mineralization, the Park could have been several thousand metres higher than the T-Bill; it may be that the hornfelsing and associated Au-Cu±As mineralization at the Park represents a high-level equivalent to the deeper carbonate-muscovite alteration and mesothermal Au-As veining at the T-Bill.

The 2001 program on the Bill successfully:

- confirmed the presence of a large gold-bearing mesothermal vein/alteration system at the T-Bill prospect;
- expanded its associated Au-As soil geochemical anomaly by 200 metres north-south and 500 metres east-west;
- demonstrated the importance of metallics assaying for obtaining true gold grades and suggested that previously reported intersections may have been under-reported;
- identified a new style of low-grade hornfelsed and pyritized gold mineralization on the Park prospect within a 500 x 900 metre open-ended Au-Cu±As soil geochemical anomaly; and
- identified two new areas with gold-bearing soils in previously unexplored portions of the property.

Respectfully submitted,

Henry J. Awmack, P.Eng.
EQUITY ENGINEERING LTD.

Vancouver, British Columbia
August, 2001

APPENDIX A

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BIBLIOGRAPHY

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APPENDIX B

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES
BT, BT1, BT2, BT3 Claims
July 5-12, 2001

PROFESSIONAL FEES AND WAGES:			
Henry Awmack, P. Eng.			
16.03 days @ $460/day	$ 7,373.80		
Mark Baknes, P.Geo.			
14.20 day @ $460/day	6,532.00		
David A. Caulfield, P.Geo.			
8.85 days @ $460/day	4,071.00		
Clerical			
102.0 hours @ $25/hour	2,550.00	$	20,526.80
EXPENSES:			
Expediting	$ 142.50		
Chemical Analyses			
10 silts @ $13.97/silt	139.70		
101 soils @ $13.97/soil	1,410.97		
59 rocks @ $16.26/rock	959.34		
8 assays @ $4.88/assay	39.00		
4 met. assays @ $35.59/assay	142.35		
Materials and Supplies	351.53		
Maps and Publications	1,960.96		
Drafting	2,071.00		
Plot Charges	216.89		
Printing and Reproduction	843.17		
Meals	118.95		
Accommodation	272.25		
Taxis	42.62		
Truck Rental	1,125.29		
Automotive Fuel	95.51		
Tolls and Airport Taxes	9.19		
Parking	64.53		
Airfare	768.55		
Camp Food	430.30		
Fixed Wing Aircraft Charters	1,755.60		
Helicopter Charters	4,018.82		
Telephone Distance Charges	133.88		
Courier	8.17		
Freight	1,254.84		
Satellite Phone Rental	371.10		18,747.01
EQUITY ENGINEERING EQUIPMENT RENTALS:			
Camp			
19.95 days @ $25/day	$ 498.75		
Generator, 1kVA			
6.65 days @ $10/day	66.50		
Core Splitter			
1 days @ $5/day	5.00		570.25
SUB-TOTAL:		$	39,844.06

STATEMENT OF EXPENDITURES
BT, BT1, BT2, BT3 Claims
July 5-12, 2001

PROJECT SUPERVISION CHARGE:		
12% on first $100,000 of expenditures		4,781.29
SUB-TOTAL:	$	44,625.35
GST: 7% on sub-total		3,123.77
TOTAL:	**$**	**47,749.12**

Note: Chemical analyses, core splitter and field days assigned to the BT or Gos claims. All other expenses prorated on the basis of field days spent on each claim group: BT:Gos in ratio of 19:1.

STATEMENT OF EXPENDITURES
GOS Claim
July 5-12, 2001

PROFESSIONAL FEES AND WAGES:				
Henry Awmack, P. Eng.				
	0.47 days @ $460/day	$ 216.20		
Mark Baknes, P.Geo.				
	1.43 day @ $460/day	657.80		
David A. Caulfield, P.Geo.				
	0.15 days @ $460/day	69.00		
Clerical				
	5.0 hours @ $25/hour	125.00	$	1,068.00
EXPENSES:				
Expediting		$ 7.50		
Chemical Analyses				
	22 soils @ $13.97/soil	307.34		
	4 rocks @ $16.26/rock	65.04		
Materials and Supplies		18.50		
Maps and Publications		103.21		
Drafting		109.00		
Plot Charges		11.42		
Printing and Reproduction		44.38		
Meals		6.26		
Accommodation		14.33		
Taxis		2.24		
Truck Rental		59.23		
Automotive Fuel		5.02		
Tolls and Airport Taxes		92.40		
Parking		3.40		
Airfare		40.45		
Camp Food		22.65		
Fixed Wing Aircraft Charters		92.40		
Helicopter Charters		211.52		
Telephone Distance Charges		7.05		
Courier		0.43		
Freight		66.04		
Satellite Phone Rental		19.53		1,309.34
EQUITY ENGINEERING EQUIPMENT RENTALS:				
Camp				
	1.05 mandays @ $25/day	$ 26.25		
Generator, 1kVA				
	0.35 days @ $10/day	3.50		29.75
SUB-TOTAL:			$	2,407.09
PROJECT SUPERVISION CHARGE:				
12% on first $100,000 of expenditures				288.85

SUB-TOTAL:	$	2,695.94
GST: 7% on sub-total		188.72
TOTAL:	**$**	**2,884.66**

Note: Chemical analyses, core splitter and field days assigned to the BT or Gos claims. All other expenses prorated on the basis of field days spent on each claim group: BT:Gos in ratio of 19:1.

APPENDIX C

ROCK SAMPLE DESCRIPTIONS

MINERALS AND ALTERATION TYPES

AK	ankerite	AL	alunite	AS	arsenopyrite
AU	native gold	AZ	azurite	BA	barite
BI	biotite	BO	bornite	BT	pyrobitumen
CA	calcite	CB	Fe-carbonate	CC	chalcocite
CD	chalcedony	CL	chlorite	CP	chalcopyrite
CV	covellite	CY	clay	DO	dolomite
EN	enargite	EP	epidote	GE	goethite
GL	galena	GR	graphite	HE	hematite
HS	specularite	HZ	hydrozincite	JA	jarosite
KF	potassium feldspar	MC	malachite	MG	magnetite
MN	Mn-oxides	MR	mariposite/fuchsite	MS	sericite
MT	marcasite	MU	muscovite	NE	neotocite
PA	pyrargyrite	PL	pyrolusite	PO	pyrrhotite
PY	pyrite	QZ	quartz veining	RE	realgar
RN	rhodonite	SB	stibnite	SI	silicification
SM	smithsonite	SP	sphalerite	SR	scorodite
TT	tetrahedrite				

ALTERATION INTENSITY

m	moderate	s	strong	tr	trace
vs	very strong	w	weak		

Rock Sample Descriptions

Project Name: Bill **Project: RFM01-11** **NTS: 94E/12,13**

Sample Number	Grid North	Grid East	Type	Alteration	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
134153 T-Bill	UTM N; Elevation m	UTM E; Sample Width: 0.1 m	Core; Strike Length Exp:; True Width:; Host: Spotted chlorite schist	mCL; Metallics: trAS, trCP, 1%PY; Secondaries:	485	<.2	256	37
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					<1	2	6	36

Sampled By: MEB 08-Jul-01

Core sample 84-4: 59.6-59.7. Possible metamorphic sweat. 4 cm white quartz - calcite vein, straight-sided, acute angle to foliation. Thin seam of pyrite ± arsenopyrite-chalcopyrite in centre vein. Stringer emanates off across foliation.

Sample Number	Grid North	Grid East	Type	Alteration	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
134154 T-Bill	UTM N; Elevation	UTM E; Sample Width: 2.3 m	Core; Strike Length Exp:; True Width:; Host: Chlorite schist	mCB, mQZ; Metallics: trAS, trPY; Secondaries:	45	<.2	80	28
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					<1	2	2	80

Sampled By: MEB 08-Jul-01

Core sample 84-4: 71.0-73.3. Metamorphic quartz-calcite veins with minor to trace pyrite and arsenopyrite replacing chloritic inclusions/septae. <3% quartz veins with rare ankerite.

Sample Number	Grid North	Grid East	Type	Alteration	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
134155 T-Bill	UTM N; Elevation	UTM E; Sample Width: 2 m	Core; Strike Length Exp:; True Width:; Host: Chlorite schist	mCB, mQZ; Metallics: trAS, trPY; Secondaries:	<5	<.2	112	32
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					<1	2	4	70

Sampled By: MEB 08-Jul-01

Core sample 84-4: 73.3-75.3 m. Metamorphic quartz-calcite veins with minor to trace pyrite-arsenopyrite replacing chlorite inclusions and vein septae. 15% vein material.

Sample Number	Grid North	Grid East	Type	Alteration	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
134156 T-Bill	UTM N; Elevation	UTM E; Sample Width: 2 m	Core; Strike Length Exp:; True Width:; Host: Chlorite schist	mCB, mQZ; Metallics: trAS, trPY; Secondaries:	120	<.2	534	22
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					<1	10	<2	84

Sampled By: MEB 08-Jul-01

Core sample 84-4: 75.3-77.3 m. Metamorphic quartz-calcite veins with trace pyrite-arsenopyrite replacing chlorite inclusions and vein septae. 10% vein material.

Sample Number	Grid North	Grid East	Type	Alteration	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
134157 T-Bill	UTM N; Elevation	UTM E; Sample Width: 2 m	Core; Strike Length Exp:; True Width: cm; Host: Chlorite schist	mCA, mCL, mQZ; Metallics: trAS, trPY; Secondaries:	10	<.2	64	27
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					<1	8	6	138

Sampled By: MEB 08-Jul-01

Core sample 84-4: 77.3-79.3 m. Metamorphic quartz-calcite veins with trace pyrite and arsenopyrite replacing chloritic inclusions/septae. 30% quartz and calcite veining.

Sample Number	Grid North	Grid East	Type	Alteration	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
134158 T-Bill	UTM N; Elevation	UTM E; Sample Width: 2 m	Core; Strike Length Exp:; True Width:; Host: Chlorite schist	mCA, mCL, mQZ; Metallics: trAS, trPY; Secondaries:	<5	<.2	12	22
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					1	2	4	102

Sampled By: MEB 08-Jul-01

Core sample 84-4: 79.3-81.3 m. Metamorphic quartz-calcite veins with trace pyrite and arsenopyrite replacing chlorite inclusions and septae. 10-15% quartz and calcite veinin

Rock Sample Descriptions

Project Name: Bill **Project: RFM01-11** **NTS: 94E/12,13**

Sample Number	Grid North / UTM / Elevation	Grid East / UTM / Sample Width	Type / Strike Length Exp / True Width / Host	Alteration / Metallics / Secondaries	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
134159 T-Bill	Grid North: N; UTM N; Elevation	Grid East: E; UTM E; Sample Width: 3 m	Type: Core; Strike Length Exp:; True Width:; Host : Carbonaceous and sericitic calcite schist	Alteration: mMS; Metallics: trAS, trPO, tPY; Secondaries:	10	0.2	76	60	<1	8	<2	66
134160 T-Bill	Grid North: N; UTM N; Elevation	Grid East: E; UTM E; Sample Width: 1 m	Type: Core; Strike Length Exp:; True Width:; Host : Carbonaceous and sericitic calcite schist	Alteration: mMS; Metallics: trAS, trPO; Secondaries:	40	0.2	198	34	<1	12	<2	114
134161 T-Bill	Grid North: N; UTM N; Elevation	Grid East: E; UTM E; Sample Width: 1.1 m	Type: Core; Strike Length Exp:; True Width:; Host : Chlorite schist	Alteration: CY; Metallics: trAS, trPY; Secondaries:	145	<.2	544	81	<1	<2	2	58
134162 T-Bill	Grid North: N; UTM N; Elevation	Grid East: E; UTM E; Sample Width: 3.4 m	Type: Core; Strike Length Exp:; True Width:; Host : Carbonaceous and sericitic calcite schist	Alteration: mMS; Metallics: 3%PY; Secondaries:	<5	0.4	340	73	<1	12	<2	50
134163 T-Bill	Grid North: N; UTM N; Elevation	Grid East: E; UTM E; Sample Width: 0.5 m	Type: Core; Strike Length Exp:; True Width:; Host : Altered chlorite schist	Alteration: mCA, sCB, sMS, mQZ; Metallics: 5%AS, trAU; Secondaries:	25.6 g/t	6.2	2.83 %	12	<1	178	74	144
134164 T-Bill	Grid North: N; UTM N; Elevation	Grid East: E; UTM E; Sample Width: 1.5 m	Type: Core; Strike Length Exp:; True Width:; Host : Chlorite schist	Alteration:; Metallics: trAS, trPY; Secondaries:	5	0.2	84	18	<1	6	14	162

134159 — Sampled By: MEB 08-Jul-01
Core sample 84-4: 87.0-90.0 m. Distinctive unit with disseminated pyrite, pyrrhotite, and trace arsenopyrite as blebs along foliation planes.

134160 — Sampled By: MEB 08-Jul-01
Core sample 84-4: 90.0-91.0 m. Continuation of 134159 but less carbonaceous here.

134161 — Sampled By: MEB 08-Jul-01
Core sample 84-4: 129.7-130.8 m. Brittle fault zone, chloritic clay fault gouge supporting clasts of the above unit in gouge. Trace arsenopyrite noted in fragments. Looks like late brittle feature.

134162 — Sampled By: MEB 08-Jul-01
Core sample 84-4: 151.9-155.3 m. 3% pyrite as disseminated blebs and as massive granular aggregates. Pyrite looks syngenetic.

134163 — Sampled By: MEB 08-Jul-01
Core sample 84-4: 172.5-173.0 m. Coarse arsenopyrite with rare visible gold in brittle stringers and vein breccia of quartz and dolomite. Stringers are irregular but cut foliation. Schist is pale blue grey with pervasive dolomite ± sericite and fuchsite alteration. 1/4 split sample.

134164 — Sampled By: MEB 08-Jul-01
Core sample 84-4:173.0-174.5 m. Green chlorite schist with <3% 1-3 mm quartz-dolomite stringers with trace pyrite and arsenopyrite and 5% white bull quartz with chlorite septae and no sulphides. 1/4 split sample. 1984 sample 555 (10.6 g/tAu) incorrectly shown for this interval instead of 172.5-174.5 m.

Rock Sample Descriptions

Project Name: **Bill** **Project:** **RFM01-11** **NTS:** **94E/12,13**

Sample Number:										
	Grid North: N	Grid East: E	Type: Core	Alteration: mCB, mQZ	**Au (ppb)**	**Ag (ppm)**	**As (ppm)**	**Cu (ppm)**		
134165	UTM N	UTM E	Strike Length Exp:	Metallics: trAS, trPY	750	<.2	4870	4		
T-Bill	Elevation	Sample Width: 0.3 m	True Width:	Secondaries:	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**		
			Host : Chlorite schist		<1	4	2	32		

Sampled By: MEB 08-Jul-01

Core sample 84-4:179.3-179.6 m. Bull quartz vein cut by 1-4 mm quartz-dolomite-arsenopyrite tension gashes which cut the segregation and cut the foliation ~45°. The arsenopyrite also travels out parallel to foliation replacing vein septae.

Sample Number:								
	Grid North: N	Grid East: E	Type: Core	Alteration: wCA, wDO	**Au (ppb)**	**Ag (ppm)**	**As (ppm)**	**Cu (ppm)**
134166	UTM N	UTM E	Strike Length Exp:	Metallics: 2%AS, 1%PY	9.28 g/t	1.8	0.99 %	7
T-Bill	Elevation	Sample Width: 0.2 m	True Width:	Secondaries:	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Chlorite schist		<1	4	2	10

Sampled By: MEB 09-Jul-01

Core sample 84-5: 244.4-244.6 m. Vein starts at 244.0 but core lost from 244.0-244.4 m. Quartz ankerite vein at low angle to core axis. 2% fine-grained arsenopyrite and trace pyrite along septae and as fine-grained selvedge.

Sample Number:								
	Grid North: N	Grid East: E	Type: Select/Grab	Alteration: sCB, sMS, wQZ	**Au (ppb)**	**Ag (ppm)**	**As (ppm)**	**Cu (ppm)**
272501	UTM 6404265 N	UTM 572983 E	Strike Length Exp: ~10 m	Metallics: <1-5%AS, 10%PY	2800	6	1.86 %	42
T-Bill	Elevation 1790 m	Sample Width: 20 cm	True Width: 20 cm	Secondaries: sJA	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Foliation 075°/56° S		Host : Altered chlorite schist		<1	66	10	10

Sampled By: DAC 06-Jul-01

Showing F. Jarosite-altered outcrop. Mineralization and alteration follow (roughly) foliation. Entire altered zone is approximately 3 m true width although best sulphide mineralization is restricted to small lenses.

Sample Number:								
	Grid North: N	Grid East: E	Type: Grab	Alteration: wCB, sMS	**Au (ppb)**	**Ag (ppm)**	**As (ppm)**	**Cu (ppm)**
272502	UTM 6404265 N	UTM 572983 E	Strike Length Exp: ~10 m	Metallics: ?PY	305	2.8	3950	34
T-Bill	Elevation 1790 m	Sample Width: 60 cm	True Width: 60 cm	Secondaries: sJA	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Foliation 075°/56° S		Host : Altered chlorite schist		2	20	18	6

Sampled By: DAC 06-Jul-01

Showing F. Character sample of altered wall rock avoiding vein materials. Sulphides are weathered out.

Sample Number:								
	Grid North: N	Grid East: E	Type: Float	Alteration: w-mCB, sQZ	**Au (ppb)**	**Ag (ppm)**	**As (ppm)**	**Cu (ppm)**
272503	UTM 6404708 N	UTM 573056 E	Strike Length Exp:	Metallics: 2-3%AS	6.85 g/t	0.8	6780	3
T-Bill	Elevation 1785 m	Sample Width:	True Width:	Secondaries: wGE, wSR	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Quartz vein		<1	2	2	2

Sampled By: DAC 06-Jul-01

Angular irregular vein float - 25x20 cm. Quartz vein has brecciated texture. Arsenopyrite occurs as stringers (wispy) and as late fracture fillings.

Sample Number:								
	Grid North: N	Grid East: E	Type: Float	Alteration: sQZ	**Au (ppb)**	**Ag (ppm)**	**As (ppm)**	**Cu (ppm)**
272504	UTM 6404664 N	UTM 573196 E	Strike Length Exp:	Metallics:	135	<.2	144	3
T-Bill	Elevation 1745 m	Sample Width:	True Width:	Secondaries: mJA	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Quartz vein		<1	6	2	<2

Sampled By: DAC 06-Jul-01

Pitted quartz vein. Sulphides weathered out. Angular float 5x10 cm.

Rock Sample Descriptions

Project Name: Bill **Project: RFM01-11** **NTS: 94E/12,13**

Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: mCB, mQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272505	UTM 6404933	N	UTM 572014	E	Strike Length Exp:	Metallics:	455	1.2	1345	167
T-Bill	Elevation 1825	m	Sample Width:		True Width:	Secondaries: wGE, mJA	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					Host : Quartz carbonate vein		<1	38	4	<2

Sampled By: DAC 07-Jul-01

Rubble float in scree of iron-carbonate altered phyllite. Composite of several pieces, mostly 2 cm with one larger 5x10 cm. Has a bit of weight - carbonate is probably ankerite. In an area of higher gold soils.

Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: wCA, sCB	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272506	UTM 6405108	N	UTM 572146	E	Strike Length Exp:	Metallics: 3%PY	10	<.2	38	6
T-Bill	Elevation 1775	m	Sample Width:		True Width:	Secondaries: mGE	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					Host : Iron carbonate		<1	<2	10	<2

Sampled By: DAC 07-Jul-01

Chocolate-brown iron carbonate, likely siderite but some ankerite noted as well. Pyrite disseminated as mm scale cubes. Same type is abundant as scree with blocks 30-40 cm

Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: wCB, sQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272507	UTM 6405742	N	UTM 572535	E	Strike Length Exp:	Metallics:	<5	<.2	18	49
T-Bill	Elevation 1790	m	Sample Width:		True Width:	Secondaries:	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					Host : Quartz-carbonate vein		<1	8	<2	52

Sampled By: DAC 07-Jul-01

Composite sample of quartz vein rubble in saddle up from high gold values in soils on Dupont contour line. Taken 30 m down ridge line from LCP.

Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: wCB, m-sMS	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272508	UTM 6405742	N	UTM 572535	E	Strike Length Exp:	Metallics:	<5	<.2	10	33
T-Bill	Elevation 1790	m	Sample Width:		True Width:	Secondaries: wGE	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					Host : Altered phyllite		<1	<2	2	64

Sampled By: DAC 07-Jul-01

Sample location same as 272507 but sample is of sericite altered phyllite only. Composite sample.

Sample Number:	Grid North:	N	Grid East:	E	Type: Grab	Alteration: mCB, sMS, wQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272509	UTM 6405764	N	UTM 572420	E	Strike Length Exp: 5 m	Metallics:	10	<.2	6	81
T-Bill	Elevation 1790	m	Sample Width: 50	cm	True Width: 50 cm	Secondaries:	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Foliation 230°/29° NW		Host : Sericite-carbonate altered phyllite		<1	<2	8	30

Sampled By: DAC 07-Jul-01

Light brown weathering altered phyllite. Highly contorted isoclinal folding with folded quartz vein and quartz boudins. Sample taken upslope from good gold soil geochemistry.

Sample Number:	Grid North:	N	Grid East:	E	Type: Grab	Alteration: sCB, sMS, mQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272510	UTM 6405644	N	UTM 572258	E	Strike Length Exp: 7 m	Metallics:	<5	<.2	6	48
T-Bill	Elevation 1720	m	Sample Width: 1	m	True Width: 1 m	Secondaries: wGE	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Foliation 235°/29° NW		Host : Sericite-carbonate altered phyllite		<1	<2	4	50

Sampled By: DAC 07-Jul-01

Brown-weathering sericite-ankerite altered phyllite. Quartz veining is abundant. Most of the veining appears to be pre-deformation as it is isoclinally folded and quite boudinaged.

Rock Sample Descriptions

Project Name: Bill   Project: RFM01-11   NTS: 94E/12,13

Sample Number:	Grid North: N	Grid East: E	Type: Float	Alteration: mCB, mMS, mQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272511	UTM 6405069 N	UTM 571974 E	Strike Length Exp:	Metallics: <1%PY	380	0.2	1075	9
T-Bill	Elevation 1770 m	Sample Width:	True Width:	Secondaries: w-mGE, mJA	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Carbonate-muscovite altered phyllite/chlorite schist?		1	6	<2	<2

Sampled By: DAC 07-Jul-01

Composite of three angular float pieces, the largest of which is 15 cm in diameter. Sulphides mostly weathered, boxwork after pyrite. Pyrite noted in one piece. Total sulphide probably 10% or greater.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: mCB, w-mMS	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272512	UTM 6404316 N	UTM 572511 E	Strike Length Exp: 10 m	Metallics: 3%PY	10	<.2	14	350
T-Bill	Elevation 1690 m	Sample Width: 1.5 m	True Width: 1.5 m	Secondaries: wGE, wJA	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Foliation 090°/45° S		Host : Quartz crystal tuff to chloritic schist		<1	<2	2	26

Sampled By: DAC 07-Jul-01

Apparent location of zone E. Brown weathering (carbonate-altered) chlorite-rich schist with 3 mm bluish quartz eyes. Area of carbonate-alteration up to 10 m thick. Lower contact not exposed. Pyrite is disseminated and as stringers/blebs.

Sample Number:	Grid North: N	Grid East: E	Type: Float	Alteration: mCB, wMS, sQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272513	UTM 6404313 N	UTM 572606 E	Strike Length Exp:	Metallics: 10%PY	190	<.2	510	9
T-Bill	Elevation 1710 m	Sample Width:	True Width:	Secondaries: sGE, wJA	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Quartz vein breccia		<1	4	<2	<2

Sampled By: DAC 07-Jul-01

Showing F area. 40 cm angular boulder. Breccia with angular quartz, phyllite clasts. Carbonate in matrix with quartz. Pyrite is disseminated as fracture fillings.

Sample Number:	Grid North: N	Grid East: E	Type: Float	Alteration: wMS, mQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272514	UTM 6405363 N	UTM 573273 E	Strike Length Exp:	Metallics: trAS, 5%PY	105	<.2	1915	4
T-Bill	Elevation 2000 m	Sample Width:	True Width:	Secondaries: mGE, wJA	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Carbonate-sericite altered schist		<1	6	2	20

Sampled By: DAC 08-Jul-01

A number of rusty boulders in red soil streak on north side of ridge above drop off. Can't follow float train downslope, it is buried under unaltered green schist talus upslope.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: CB, sQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272515	UTM 6405447 N	UTM 573421 E	Strike Length Exp: 2-3 m	Metallics:	35	0.6	208	12
T-Bill	Elevation 1960 m	Sample Width: 15 cm	True Width: 15 cm	Secondaries: wGE	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Fault 140°/90°		Host : Chloritic schist		<1	2	6	28

Sampled By: DAC 08-Jul-01

Rusty soil in slot on ridge. Quartz-ankerite rubble in notch. Gully off north end trends 140° and resembles description of Showing D. Should be location of 710 ppb Au soil sample.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: mCB, mMS, mQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272516	UTM 6405545 N	UTM 573527 E	Strike Length Exp: 0.5 m	Metallics: <1%AS, trCP, 3%PY	215	0.2	4040	37
T-Bill	Elevation 1900 m	Sample Width: 60 cm	True Width: 60 cm	Secondaries: sGE, wJA	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 160°/90°		Host : Chlorite schist		<1	2	6	2

Sampled By: DAC 08-Jul-01

Red (hematitic) soil; Dig down to reveal quartz alteration zone. Except for soil colour very subtle expression of quartz-ankerite vein. >1 g/t soils in area.

Rock Sample Descriptions

Project Name: Bill **Project: RFM01-11** **NTS: 94E/12,13**

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: mCB, mMS, wQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272517	UTM 6405545 N	UTM 573527 E	Strike Length Exp: 0.5 m	Metallics: tr CP, trPY	30	<.2	1365	33
T-Bill	Elevation 1900 m	Sample Width: 30 cm	True Width: 30 cm	Secondaries: wGE, wHE, wJA	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	140°/?°		Host : Chlorite schist		<1	22	4	24

Sampled By: DAC 08-Jul-01

Similar looking zone 4 m along ridge to northeast (from 272516). Dig down through red soil to locate vein(?) of altered material. 9 cm quartz-ankerite boulder sits on top of zone, presumably weathered out. It contains traces of chalcopyrite and pyrite.

Sample Number:	Grid North: N	Grid East: E	Type: Float	Alteration: mAK, MS, sQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272518	UTM 6405936 N	UTM 574247 E	Strike Length Exp:	Metallics: trPY	5	<.2	10	3
T-Bill	Elevation 1880 m	Sample Width: 14 m	True Width: cm	Secondaries: wGE	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Chlorite schist		<1	<2	2	30

Sampled By: DAC 08-Jul-01

Recessive muscovite-carbonate zone with abundant quartz fragments. Location would put it upslope from Showing B (under snow). Grab taken across zone picking a composite of quartz chips over 14 m. Quartz veining represents 30-40% of material.

Sample Number:	Grid North: N	Grid East: E	Type: Float	Alteration: sAK, wQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272519	UTM 6406513 N	UTM 574018 E	Strike Length Exp:	Metallics: 3%GL, trPY, 10%SP	75	58	76	632
T-Bill	Elevation 1770 m	Sample Width:	True Width:	Secondaries: wSM	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Carbonate-muscovite altered chlorite schist		<1	1.28 %	550	18.55 %

Sampled By: DAC 08-Jul-01

Showing C. Brown weathering vein (ankerite) rubble crosses saddle. May be in outcrop to east but snow cornice covering area. Arsenopyrite reported but none seen in chip sampled.

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: wCB, sQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272520	UTM 6403712 N	UTM 573340 E	Strike Length Exp: 10 m	Metallics: 10-15% PY	1500	142 g/t	2190	583
T-Bill	Elevation 1860 m	Sample Width: 40 cm	True Width: 40 cm	Secondaries: sGE, sJA	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 100°/90°		Host : Quartz-carbonate vein		<1	102	628	830

Sampled By: DAC 09-Jul-01

Showing K. Sits in prominent planar, sharp-walled gully. Two grain sizes of pyrite - larger 1-2 mm, sometimes cubic grains and finer disseminated grains which concentrate ir wispy lenses.

Sample Number:	Grid North: N	Grid East: E	Type: Float	Alteration: mAK, m-sQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272521	UTM 6403561 N	UTM 573419 E	Strike Length Exp:	Metallics: 5%PY	1480	1.6	684	99
T-Bill	Elevation 1780 m	Sample Width:	True Width:	Secondaries: mGE	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
			Host : Quartz-ankerite vein		<1	44	14	596

Sampled By: DAC 09-Jul-01

Showing H. Angular float. Vein width 7 cm. Float may come from one of two fault zones 25 m upslope. (105°/90°, 140°/62°SW)

Sample Number:	Grid North: N	Grid East: E	Type: Grab	Alteration: mCB, sQZ	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
272522	UTM 6403677 N	UTM 573399 E	Strike Length Exp:	Metallics: 3-5%PY	605	1.8	536	192
T-Bill	Elevation 1820 m	Sample Width: 20 cm	True Width: 20 cm	Secondaries:	**Mo (ppm)**	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
	Vein 245°/35° NW		Host : Chlorite schist		1	4	26	184

Sampled By: DAC 09-Jul-01

Showing H. Controlling structure trends 110°/85°N although alteration mineralization has bled out along foliation.

Rock Sample Descriptions

Project Name: Bill **Project: RFM01-11** **NTS: 94E/12,13**

Sample Number	Grid North / UTM / Elevation	Grid East / UTM / Sample Width	Type / Strike Length Exp / True Width / Host	Alteration / Metallics / Secondaries	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
272523 **T-Bill** Sampled By: DAC 09-Jul-01	Grid North: N; UTM 6403798 N; Elevation 1810 m	Grid East: E; UTM 573360 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host: Quartz vein	Alteration: wCB, sQZ; Metallics: 5%AS, 3%PY; Secondaries: wGE, wJA, SR	13.2 g/t	1.4	5.52 %	14	<1	66	54	116
272524 **T-Bill** Sampled By: DAC 09-Jul-01	Grid North: N; UTM 6403841 N; Elevation 1860 m	Grid East: E; UTM 573178 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host: Siderite-barite	Alteration: sSD, sBA; Metallics: trCP, 3%PY; Secondaries: mGE	250	0.8	494	1915	1	14	22	90
272525 **T-Bill** Sampled By: DAC 09-Jul-01	Grid North: N; UTM 6403841 N; Elevation 1860 m	Grid East: E; UTM 573178 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host: Quartz vein	Alteration: sQZ; Metallics: 5%PY; Secondaries: mGE, wJA	4700	4.4	910	42	<1	30	70	52
272526 **Park** Sampled By: DAC 10-Jul-01	Grid North: N; UTM 6407847 N; Elevation 1610 m	Grid East: E; UTM 573025 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host: Mafic volcanic (amygdaloidal)	Alteration: mAK; Metallics: trCP, 1%PY; Secondaries: mGE	155	<.2	18	442	<1	<2	4	44
272527 **Park** Sampled By: DAC 10-Jul-01	Grid North: N; UTM 6407856 N; Elevation 1620 m	Grid East: E; UTM 573035 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host: Well-altered fractured volcanic	Alteration: wAK; Metallics: 2%PY; Secondaries: mGE	3590	0.2	92	110	3	<2	6	40
272528 **Park** Sampled By: DAC 10-Jul-01	Grid North: N; UTM 6407878 N; Elevation 1610 m	Grid East: E; UTM 573229 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host: Mafic volcanic	Alteration: wCB, wCY; Metallics: trCP, 3-5%PY; Secondaries: sGE	485	0.6	10	731	58	<2	6	34

272523: Showing G. Lots of quartz vein float in talus. Can follow float for 20 m upslope where it appears out of slope in rusty soil. Sample is composite of various float. Vein width to : cm.

272524: Showing J. Chocolate brown weathering, angular float. Vein width 15 cm; 1-2 cm bladed barite grains with siderite matrix. Pyrite along calcite grain boundaries and in semi-massive pods.

272525: Showing J. Same location as 272524. Angular float to 7 cm wide. Pyrite weathers out to give frothy, pitted texture to surface. Yellow-stained outcrops 50 m upslope can't be reached due to snow. North-south orientation to draw.

272526: 60 cm angular float boulder, located at a soil station. 0.5-1 cm ankerite veinlets cutting through host. Pyrite is disseminated, chalcopyrite IN blebby aggregates on dry fractures

272527: 20 cm rusty boulder with the same lithology as 272526 but intensely fractured.

272528: Rusty soil spilling out in open meadow. 5x10 m area. Sample is composite of a number of float pieces. Very angular float close to source.

Rock Sample Descriptions

Project Name: Bill **Project: RFM01-11** **NTS: 94E/12,13**

Sample	Location		Description		Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
Sample Number: **272529** **Park**	Grid North: N; UTM 6407902 N; Elevation 1610 m	Grid East: E; UTM 573325 E; Sample Width: 1.5 m	Type: Grab; Strike Length Exp: 1 m; True Width: 1.5 m; Host : Altered volcanic	Alteration: wQZ; Metallics: >5%PY; Secondaries: sGE, wJA	1405	4.2	82	221
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					6	10	6	26

Sampled By: DAC 10-Jul-01 — Outcrop at the head of another rusty soil patch. Unit has hornfelsed appearance.

Sample	Location		Description		Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
Sample Number: **272530** **Park**	Grid North: N; UTM 6408060 N; Elevation 1660 m	Grid East: E; UTM 573432 E; Sample Width: 1 m	Type: Grab; Strike Length Exp: 0.5 m; True Width: 1 m; Host : Well-fractured hornfelsed volcanic	Alteration: wQZ; Metallics: 2%PY; Secondaries: mGE	80	<.2	86	420
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					10	2	6	22

Sampled By: DAC 10-Jul-01 — Sample taken at top end of rusty soil run. Soil sample station - can't read flag.

Sample	Location		Description		Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
Sample Number: **272531** **T-Bill**	Grid North: N; UTM 6404358 N; Elevation 1705 m	Grid East: E; UTM 572606 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host : Quartz-ankerite vein	Alteration: mCB, sQZ; Metallics: <1%PY; Secondaries:	15	<.2	30	1
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					<1	<2	4	<2

Sampled By: DAC 12-Jul-01 — 10 cm angular boulder in talus slope with traces of black mineral.

Sample	Location		Description		Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
Sample Number: **272534** **Gos**	Grid North: N; UTM 6400574 N; Elevation 1900 m	Grid East: E; UTM 571552 E; Sample Width: 5 m	Type: Grab; Strike Length Exp: >25 m; True Width: 5 m; Host : Granite	Alteration: vwKF, wQZ, mSI; Metallics: 2%HS?, trPY; Secondaries: wGE	<5	<.2	2	10
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					<1	8	2	6

Sampled By: DAC 28-Jul-01 — Grab across intrusive outcrop approximately 30+ m inboard of diorite contact. Representative sample - hillside consists of similar-looking stuff.

Sample	Location		Description		Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
Sample Number: **272535** **Gos**	Grid North: N; UTM 6400600 N; Elevation 1900 m	Grid East: E; UTM 571610 E; Sample Width: 4 m	Type: Grab; Strike Length Exp: >25 m; True Width: 4 m; Host : Granite	Alteration: mQZ; Metallics: 1%HS?; Secondaries: mGE	<5	<.2	2	12
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					2	<2	<2	2

Sampled By: DAC 28-Jul-01 — Sample from 15% stockwork quartz veining at contact with diorite unit. Stockwork veining decreases in granite away from contact. Contains grey metallic mineral that looks lik hematite but could not get red streak (same as in 272534).

Sample	Location		Description		Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
Sample Number: **51065** **T-Bill**	Grid North: N; UTM 6404270 N; Elevation 1800 m	Grid East: E; UTM 572989 E; Sample Width: 10 cm	Type: Float; Strike Length Exp:; True Width:; Host : Quartz-carbonate-sulphide vein	Alteration: 10%CB, 80%QZ; Metallics: 10%AS, 2%PY; Secondaries: mGE	1470	0.6	1.51 %	5
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					<1	<2	12	<2

Sampled By: HJA 06-Jul-01 — 10x20x20 cm float boulder. Showing F. White quartz-carbonate with fine-grained arsenopyrite and massive medium-grained pyrite along fractures and in granular clots. Looks brecciated (due to carbonate weathering out?)

Rock Sample Descriptions

Project Name: Bill **Project: RFM01-11** **NTS: 94E/12,13**

Sample Number	Location	Description	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
51066 **T-Bill** Sampled By: HJA 06-Jul-01	Grid North: N Grid East: E; UTM 6404941 N UTM 573078 E; Elevation 1925 m Sample Width: 8 cm	Type: Float; Strike Length Exp:; True Width:; Host : Quartz-carbonate vein; Alteration: mCB, 95%QZ; Metallics: 1%AS, 1%PY; Secondaries: mGE	115	2	5900	29	<1	48	22	18
	8x10x12 cm cobble. White to olive grey to red mottled quartz with patches fine-grained pyrite or arsenopyrite.									
51067 **T-Bill** Sampled By: HJA 06-Jul-01	Grid North: N Grid East: E; UTM 6404994 N UTM 573283 E; Elevation 1920 m Sample Width: 6 cm	Type: Float; Strike Length Exp:; True Width:; Host : Quartz-sulphide vein; Alteration:; Metallics: 1%AS, <1%PY; Secondaries: wGE, trSR	2290	0.6	9990	10	<1	8	4	10
	Six nearby cobbles. Milky quartz with arsenopyrite filling fractures, along septa and in clusters.									
51068 **Park** Sampled By: HJA 10-Jul-01	Grid North: N Grid East: E; UTM 6408139 N UTM 572762 E; Elevation 1720 m Sample Width: 1 m	Type: Float; Strike Length Exp:; True Width:; Host : Siliceous tuff; Alteration: sSI; Metallics:; Secondaries: sGE, mHE	55	0.8	112	110	13	2	4	14
	White. 2% boxwork (after pyrite?) just below ferricrete trench.									
51069 **Park** Sampled By: HJA 10-Jul-01	Grid North: N Grid East: E; UTM 6408149 N UTM 572770 E; Elevation 1720 m Sample Width: 4 cm	Type: Float; Strike Length Exp:; True Width:; Host : Quartz boxwork vein; Alteration:; Metallics:; Secondaries: sGE	295	1	48	160	2	4	<2	4
	Frothy - 30% boxwork (after sulphides?). Medium grey mottled quartz or silicification.									
51070 **Park** Sampled By: HJA 10-Jul-01	Grid North: N Grid East: E; UTM 6408157 N UTM 572782 E; Elevation 1735 m Sample Width: 3 cm	Type: Float; Strike Length Exp:; True Width:; Host : Vuggy silica; Alteration: vsSI; Metallics:; Secondaries: sGE, wHE, trSR	2960	1.4	162	108	14	4	<2	2
	Several pebbles. Frothy - 40% voids. Rare quartz druse.									
51071 **Park** Sampled By: HJA 10-Jul-01	Grid North: N Grid East: E; UTM 6408176 N UTM 572793 E; Elevation 1740 m Sample Width: 7 cm	Type: Float; Strike Length Exp:; True Width:; Host : Siliceous tuff ?; Alteration: sSI; Metallics: trCP, <1%PY; Secondaries: sGE, trSR	170	0.2	22	10	6	2	<2	<2
	Several cobbles from uppermost trench. Grey-blue silica/quartz with sparse voids, medium-grained disseminated pyrite and rare chalcopyrite.									

Rock Sample Descriptions

Project Name: Bill **Project:** RFM01-11 **NTS:** 94E/12,13

Sample Number: **51072 T-Bill**
Grid North: N Grid East: E
UTM 6402261 N UTM 574476 E
Elevation 1570 m Sample Width: 20 cm
Type: Float
Strike Length Exp:
True Width:
Host : Muscovite-pyrite-quartz schist
Alteration:
Metallics: 1%PY
Secondaries: sGE

Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
5	<.2	14	19
Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
1	2	80	16

Sampled By: HJA
12-Jul-01

15x20x50 cm angular boulder. 2 mm pyrite cubes. Milky white quartz segregations.

Sample Number: **51073 T-Bill**
Grid North: N Grid East: E
UTM 6402414 N UTM 574007 E
Elevation 1645 m Sample Width: 10 cm
Type: Float
Strike Length Exp:
True Width:
Host : Muscovite-quartz schist
Alteration:
Metallics: trPY
Secondaries: sGE

Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
<5	<.2	6	5
Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
6	<2	36	<2

Sampled By: HJA
12-Jul-01

Rusty muscovite-quartz schist with light grey foliation - parallel and cross-cutting quartz veins. Rare grains of pyrite on fractures in veins.

Sample Number: **560701 T-Bill**
Grid North: N Grid East: E
UTM 6404092 N UTM 573197 E
Elevation 1720 m Sample Width:
Type: Float
Strike Length Exp:
True Width:
Host : Pale green silicified and sericite altered chlorite schist
Alteration: mMS, sSI
Metallics: 3%AS, 8%PY
Secondaries: SR

Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
315	0.6	5750	4
Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
<1	26	28	62

Sampled By: MEB
06-Jul-01

30x40 cm angular talus boulder. Possible lateral moraine. Kinked, foliated. Pyrite is fine- to medium-grained, in disseminated wispy lenses and pervasive disseminations. Arsenopyrite as fine-grained disseminations. Similar material rare in talus.

Sample Number: **560702 T-Bill**
Grid North: N Grid East: E
UTM 6404206 N UTM 573002 E
Elevation 1790 m Sample Width:
Type: Float
Strike Length Exp:
True Width:
Host : Chlorite schist
Alteration: mCB, wMS, sQZ
Metallics: 1%CP
Secondaries: wGE

Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
5	0.4	18	201
Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
<1	<2	<2	40

Sampled By: MEB
06-Jul-01

Showing F. 15 m upslope from 51065. 40x30 cm angular talus boulder with quartz vein cutting chlorite schist. Minor sericite selvedges, chlorite inclusions and minor carbonate Minor blebs chalcopyrite in bull quartz.

Sample Number: **560703 T-Bill**
Grid North: N Grid East: E
UTM N UTM E
Elevation 1790 m Sample Width: 7 m
Foliation 048°/32° SE
Type: Grab
Strike Length Exp:
True Width:
Host : Silicified chlorite schist
Alteration: wCB, mMS, sSI
Metallics: trPY
Secondaries: wGE

Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
5	<.2	18	17
Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
<1	2	4	58

Sampled By: MEB
06-Jul-01

7 m exposed then covered. Strong pervasive silicification with minor sericite and carbonate alteration in chlorite schist. Minor pyrite as 0.5-1mm cubes. Sample is a random grab across the face.

Sample Number: **560704 Park**
Grid North: N Grid East: E
UTM 6408109 N UTM 572867 E
Elevation 1710 m Sample Width:
Type: Grab
Strike Length Exp: 4 m
True Width:
Host : Silicified cherty tuff
Alteration: sSI
Metallics: 1%PY
Secondaries: sGE

Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
25	<.2	8	77
Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
15	2	<2	38

Sampled By: MEB
10-Jul-01

3 m north of fault contact with less altered cherty tuff. Gossanous broken white silicified cherty tuff. Pervasive silicification with disseminated fine-grained oxidized pyrite. Son vuggy drusy surfaces. Extends along slope to big gossan.

Rock Sample Descriptions

Project Name: Bill | **Project: RFM01-11** | **NTS: 94E/12,13**

Sample Number	Location		Type / Dimensions	Alteration / Mineralization	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
560705 **Park**	Grid North: N; UTM 6408159 N; Elevation 1710 m	Grid East: E; UTM 572765 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host : Cherty tuff	Alteration: sQZ, sSI; Metallics: 3%PY; Secondaries: mGE, wJA, ?SR	230	<.2	10	36
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					93	<2	2	6

Sampled By: MEB 10-Jul-01

20x20 cm talus cobble of intensely silicified cherty tuff. Glassy granular texture with pyrite as disseminated 0.5-2 mm crystal aggregates. Minor drusy vugs.

Sample Number	Location		Type / Dimensions	Alteration / Mineralization	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
560706 **Gos**	Grid North: N; UTM 6400925 N; Elevation 1730 m	Grid East: E; UTM 570920 E; Sample Width:	Type: Float; Strike Length Exp:; True Width:; Host : Granite ?	Alteration: sSI; Metallics: 1%CP, trPY; Secondaries: sGE	170	<.2	12	1040
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					3	2	2	<2

Sampled By: MEB 12-Jul-01

Intensely silicified rock/quartz vein. Glassy quartz with granular textures and local drusy vugs. Minor chalcopyrite as blebs. Very similar in appearance to Park silicification. 10 m east of gully.

Sample Number	Location		Type / Dimensions	Alteration / Mineralization	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)
560707 **Gos**	Grid North: N; UTM 6400025 N; Elevation 1760 m; Fault 002°/65° E	Grid East: E; UTM 571095 E; Sample Width: 2.5 m	Type: Grab; Strike Length Exp: 5 m; True Width: 2.5 m; Host : Granite ?	Alteration: sCY; Metallics:; Secondaries: mGE, mHE, mJA	10	<.2	<2	5
					Mo (ppm)	**Pb (ppm)**	**Sb (ppm)**	**Zn (ppm)**
					1	<2	<2	<2

Sampled By: MEB 12-Jul-01

3 m wide clay-altered fault zone in possible granite host. Sample grab over width of zone. Rocks very gossanous above. In gully 20 m above contour.

APPENDIX D.1

NOTES ON 1983-84 DRILL CORE

(From memo by Mark Baknes, P.Geo. dated July 17, 2001)

NOTES ON 1983-84 DRILL CORE

Holes 84-1, -2, -3, -4 and -5 were unloaded from the damaged core racks and laid out for re-logging. All of the other drill core was in racks that have collapsed. This core, although partly destroyed, could still be accessed by dismantling the rebar core racks. Porcupines have eaten parts of several boxes and other animals have disturbed sections of the core. Marker blocks and assay tags are generally still decipherable.

I concentrated on holes 3, 4 and 5 and only briefly looked at hole number 2. I was less interested in holes 1 and 2 since they were drilled in an E-W direction, intersecting the veins at a poor angle. The following is a summary of some of the significant observations from each of the holes. These observations include identification of errors made in the original logging and sampling that have a significant impact on the interpretation of the results.

Hole 84-3

- This hole was drilled to the north in the heart of the geochemical anomaly.
- 32.0-81.5 m, rough average of 200-300 ppb Au, >1000 ppm As: Fairly typical chlorite schist, but very weak CB alteration as AK along foliation. The Au and As are hosted in <5% 1-5 mm QZ-CB-AS-PY stringers generally oriented at a high angle to foliation. Although this grade is not of economic importance it demonstrates the widespread nature of the gold even in weakly altered rocks.
- 105.5-107.7 m, 5.5 g/tonne Au, 2350 As: 2.2 m section but I estimate that the grades are coming from a 30 cm interval. Milky-blue, banded and brecciated fabrics resemble intercept of vein in 84-5 at 130.7 m.

Hole 84-4

- 10.97-12.97 m, 4.1 g/tonne Au, >10,000 As; 12.97-14.00 m, 2.4 g/tonne Au, 1880 As: Oxidized core, mod-strong QZ-CB-MS alteration, visible mineralization in sparse 1-5 mm QZ-AK stringers (<5% veins) at a high angle to foliation and locally along kink bands (axial planar). The intercept is important for at least a couple of reasons: 1) it is probably larger since the mineralization begins right at the casing; 2) in prospecting around the collar, we noted an abundance of carbonate altered talus, but saw no mineralization. It is clear that these minute quartz stringers have essentially no preservation potential on the surface and yet when intersected in the subsurface can produce significant intercepts. It is easy to imagine walking over these sorts of grades on surface without recognizing them.
- Results as reported in the drill log (Kowalchuk, 1984):

Sample	From (m)	To (m)	Au (ppb)	As (ppm)
553	169.5	172.5	180	1480
554	172.5	173.0		
555	173.0	174.5	10.6g/t	10,000

There is a problem here. Clearly the mineralization is strongest in the 172.5-173.0 m interval, including visible Au. The mineralization occurs over approximately 20 to 30 cm as coarse AS with visible gold in stringers and stringer breccias of QZ-DO. Stringers are irregular, but cut across foliation at a low angle to the core axis. This intercept is the most westerly of Paterson's (1985) "Z" trend of mineralization. The 3rd interval looks almost barren and it appears that the core splitter sampled from 172.5-174.5 m in sample 555. These two intervals were quartered, confirming this inference:

Sample	From (m)	To (m)	Au (ppb)	As (ppm)
134163	172.5	173.0	25.6g/t	2.83%
134164	173.0	174.5	5	84

Hole 84-5

- 48.5-50.0 m, 24.7 g/tonne Au, >10,000 As: unfortunately this core has been destroyed. The interval is described as narrow QZ-AK-AS stringers within a strongly QZ-CB altered section. In some respects this sounds more similar to the intercept at the top of hole 84-4 rather than the 10.6 g/tonne interval near the end of Hole 84-4 that it has been correlated with as part of Paterson's "Z" Zone.

- 116.5-130.8 m, approx. avg. 50-100 ppb Au, 500 ppm As: stockwork zone above vein at 130.8

- 130.8-132.9 m, 4.05 g/tonne Au, >5000 ppm As: Well developed blue grey quartz vein and quartz breccia with banded vein margins and AS selvages. The blocks indicate a mis-latch in the vein interval so it may even be larger. This is the most impressive vein in terms of size and consistency that I saw in the holes examined. The vein resembles the vein at 105.5 m in 84-3 and resembles the talus float observed on surface near the collar of 84-5. The section below to 135.5 resembles the hanging-wall and is also anomalous in Au and As.

- 218.2-219.3 m, 3.2 g/tonne Au, >5000 As: This interval is mislabelled in the logs and should read 218.2-218.3 as proven by the mineralization in core and the original sample interval marks in the boxes.

- 233.7-234.7 m, 3.5 g/tonne Au, >5000 As: Strong mineralization and alteration over 40 cm within this 1 m interval. Stringers at a high angle to foliation and at a low angle to the core axis.

299.0-314.9 m (end of hole), approx. avg. 200 ppb Au, 1000 ppm As: The hole was ended in a strong zone of CB alteration with minor stockwork and up to 400 ppb Au. Clearly other holes pass through zones like this into nothing, but it is a bit of a worry to have ended a hole in a section as well mineralised and altered.

APPENDIX D.2

DIAMOND DRILL ANALYSES

The 2001 sampling has been incorporated with data from Forbes and Drown (1984) and Kowalchuk (1984) and adjusted for the two sampling/clerical errors noted in Appendix D.1 (hole 84-4: 172.5-174.5m and hole 84-5: 218.2-218.3m).

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
83-1	4500	4.80	6.00	1.20	34			200																															
83-1	4501	6.00	8.00	2.00	34			100																															
83-1	4502	8.00	10.00	2.00	34			100																															
83-1	4503	10.00	12.00	2.00	34			100																															
83-1	4504	12.00	14.00	2.00	34			-100																															
83-1	4505	14.00	16.00	2.00	34			200																															
83-1	4506	16.00	18.00	2.00	34			200																															
83-1	4507	18.00	20.00	2.00	34			900																															
83-1	4508	20.00	22.00	2.00	34			300																															
83-1	4509	22.00	24.00	2.00	103			-100																															
83-1	4510	24.00	26.00	2.00	103			100																															
83-1	4511	26.00	28.00	2.00	34			100																															
83-1	4512	28.00	30.00	2.00	34			-100																															
83-1	4513	30.00	32.00	2.00	34			-100																															
83-1	4514	32.00	34.00	2.00	34			300																															
83-1	4515	34.00	35.00	1.00	34			200																															
83-1	4516	35.00	36.00	1.00	103			2200																															
83-1	4517	36.00	38.00	2.00	137			300																															
83-1	4518	38.00	40.00	2.00	137			100																															
83-1	4519	40.00	42.00	2.00	137			100																															
83-1	4520	42.00	44.00	2.00	137			-100																															
83-1	4521	44.00	46.00	2.00	137			-100																															
83-1	4522	46.00	48.00	2.00	103			-100																															
83-1	4523	48.00	50.00	2.00	103			-100																															
83-1	4524	50.00	52.00	2.00	137			-100																															
83-1	4525	52.00	54.00	2.00	137			-100																															
83-1	4526	54.00	56.00	2.00	137			-100																															
83-1	4527	56.00	58.00	2.00	137			-100																															
83-1	4528	58.00	60.00	2.00	137			-100																															
83-1	4529	60.00	62.00	2.00	754			600																															
83-1	4530	62.00	64.00	2.00	411			1400																															
83-1	4531	64.00	66.00	2.00	309			-100																															
83-1	4532	66.00	68.00	2.00	34			-100																															
83-1	4533	68.00	70.00	2.00	206			-100																															
83-1	4534	70.00	72.00	2.00	103			-100																															
83-1	4535	72.00	74.00	2.00	103			-100																															
83-1	4536	74.00	76.00	2.00	206			400																															
83-1	4537	76.00	78.00	2.00	4251			2500																															
83-1	4538	78.00	80.00	2.00	309			-100																															
83-1	4539	80.00	82.00	2.00	103			-100																															
83-1	4540	82.00	84.00	2.00	206			-100																															
83-1	4541	84.00	86.00	2.00	103			-100																															
83-1	4542	86.00	88.00	2.00	103			100																															
83-1	4543	88.00	90.00	2.00	206			-100																															
83-1	4544	90.00	92.00	2.00	411			-100																															
83-1	4545	92.00	94.00	2.00	411			-100																															
83-1	4546	94.00	96.00	2.00	411			-100																															
83-1	4547	96.00	98.00	2.00	309			-100																															
83-1	4548	98.00	100.00	2.00	103			700																															
83-1	4549	100.00	102.00	2.00	309			1800																															
83-1	4550	102.00	104.00	2.00	12514			300																															
83-1	4551	104.00	106.00	2.00	583			600																															
83-1	4552	106.00	108.00	2.00	206			-100																															
83-1	4553	108.00	110.00	2.00	309			-100																															
83-1	4554	110.00	112.00	2.00	994			100																															
83-1	4555	112.00	114.00	2.00	103			100																															
83-1	4556	114.00	116.00	2.00	206			-100																															
83-1	4557	116.00	118.00	2.00	411			100																															
83-1	4558	118.00	120.00	2.00	206			100																															
83-1	4559	120.00	122.00	2.00	103			-100																															
83-1	4560	122.00	124.00	2.00	206			-100																															
83-1	4561	124.00	126.00	2.00	206			-100																															
83-1	4562	126.00	128.00	2.00	309			-100																															
83-1	4563	128.00	130.00	2.00	206			100																															
83-1	4564	130.00	132.00	2.00	137			100																															
83-1	4565	132.00	134.00	2.00	2914			-100																															
83-1	4566	134.00	136.00	2.00	411			-100																															
83-1	4567	136.00	138.00	2.00	309			-100																															
83-1	4568	138.00	140.00	2.00	103			-100																															
83-1	4569	140.00	142.00	2.00	309			-100																															
83-1	4570	142.00	144.00	2.00	103			-100																															
83-1	4571	144.00	146.00	2.00	103			-100																															
83-1	4572	146.00	148.00	2.00	137			-100																															
83-1	4573	148.00	150.00	2.00	34			-100																															

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
83-1	4574	150.00	152.00	2.00	343			-100																															
83-1	4575	152.00	154.00	2.00	206			-100																															
83-1	4576	154.00	156.00	2.00	206			-100																															
83-1	4577	156.00	158.00	2.00	206			-100																															
83-1	4578	158.00	160.00	2.00	206			-100																															
83-1	4579	160.00	162.00	2.00	240			-100																															
83-1	4580	162.00	164.00	2.00	137			-100																															
83-1	4581	164.00	166.00	2.00	411			-100																															
83-1	4582	166.00	168.00	2.00	411			-100																															
83-1	4583	168.00	170.00	2.00	137			-100																															
83-1	4584	170.00	172.00	2.00	240			-100																															
83-1	4585	172.00	174.00	2.00	137			-100																															
83-1	4586	174.00	176.00	2.00	514			600																															
83-1	4587	176.00	178.00	2.00	206			4600																															
83-1	4588	178.00	180.00	2.00	309			-100																															
83-1	4589	180.00	182.00	2.00	103			-100																															
83-1	4590	182.00	184.00	2.00	206			700																															
83-1	4591	184.00	186.00	2.00	206			-100																															
83-1	4592	186.00	188.00	2.00	206			-100																															
83-1	4593	188.00	190.00	2.00	206			-100																															
83-1	4594	190.00	192.00	2.00	103			-100																															
83-1	4595	192.00	194.00	2.00	103			-100																															
83-1	4596	194.00	196.00	2.00	103			-100																															
83-1	4597	196.00	198.00	2.00	206			-100																															
83-1	4598	198.00	200.00	2.00	514			-100																															
83-1	4599	200.00	202.00	2.00	206			-100																															
83-1	4600	202.00	204.00	2.00	206			-100																															
83-1	4601	204.00	206.00	2.00	103			-100																															
83-1	4602	206.00	209.10	3.10	103			-100																															
83-2	4603	4.88	9.14	4.26	103			-100																															
83-2	4604	9.14	12.19	3.05	103			-100																															
83-2	4605	12.19	16.00	3.81	69			100																															
83-2	4606	16.00	18.00	2.00	69			-100																															
83-2	4607	18.00	20.00	2.00	206			-100																															
83-2	4608	20.00	22.00	2.00	103			-100																															
83-2	4609	22.00	25.00	3.00	103			500																															
83-2	4610	25.00	29.00	4.00	69			200																															
83-2	4611	29.00	32.00	3.00	103			300																															
83-2	4612	32.00	34.00	2.00	206			300																															
83-2	4613	34.00	36.00	2.00	206			900																															
83-2	4614	36.00	38.00	2.00	274			2900																															
83-2	4615	38.00	40.00	2.00	309			8000																															
83-2	4616	40.00	42.00	2.00	309			5400																															
83-2	4617	42.00	44.00	2.00	206			6600																															
83-2	4618	44.00	46.00	2.00	206			12500																															
83-2	4619	46.00	48.00	2.00	-34			4900																															
83-2	4620	48.00	50.00	2.00	-34			11500																															
83-2	4621	50.00	52.00	2.00	1234			6500																															
83-2	4622	52.00	54.00	2.00	34971			11500																															
83-2	4623	54.00	56.00	2.00	1063			2100																															
83-2	4624	56.00	58.00	2.00	514			1600																															
83-2	4625	58.00	60.00	2.00	1234			11500																															
83-2	4626	60.00	62.00	2.00	960			6500																															
83-2	4627	62.00	64.00	2.00	206			1300																															
83-2	4628	64.00	66.00	2.00	343			3400																															
83-2	4629	66.00	68.00	2.00	446			6500																															
83-2	4630	68.00	70.00	2.00	137			1200																															
83-2	4631	70.00	72.00	2.00	206			2200																															
83-2	4632	72.00	74.00	2.00	137			1500																															
83-2	4633	74.00	76.00	2.00	446			3500																															
83-2	4634	76.00	78.00	2.00	137			200																															
83-2	4635	78.00	80.00	2.00	103			-100																															
83-2	4636	80.00	82.00	2.00	549			1000																															
83-2	4637	82.00	84.00	2.00	240			-100																															
83-2	4638	84.00	86.00	2.00	137			800																															
83-2	4639	86.00	88.00	2.00	137			100																															
83-2	4640	88.00	90.00	2.00	240			5100																															
83-2	4641	90.00	92.00	2.00	343			1900																															
83-2	4642	92.00	94.00	2.00	2434			7400																															
83-2	4643	94.00	96.00	2.00	11897			4000																															
83-2	4644	96.00	98.00	2.00	686			5800																															
83-2	4645	98.00	100.00	2.00	446			8600																															
83-2	4646	100.00	102.00	2.00	240			5600																															
83-2	4647	102.00	104.00	2.00	857			3500																															

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
83-2	4648	104.00	106.00	2.00	343			1100																															
83-2	4649	106.00	110.00	4.00	651			2100																															
83-2	4650	110.00	112.00	2.00	1166			1700																															
83-2	4651	112.00	114.00	2.00	514			1600																															
83-2	4652	114.00	116.00	2.00	549			3100																															
83-2	4653	116.00	120.00	4.00	1371			1200																															
83-2	4654	120.00	122.00	2.00	5143			12400																															
83-2	4655	122.00	124.00	2.00	171			300																															
83-2	4656	124.00	126.00	2.00	514			1200																															
83-2	4657	126.00	128.00	2.00	171			100																															
83-2	4658	128.00	130.00	2.00	171			1100																															
83-2	4659	130.00	132.00	2.00	549			6100																															
83-2	4660	132.00	134.00	2.00	446			3600																															
83-2	4661	134.00	136.00	2.00	2606			10600																															
83-2	4662	136.00	138.00	2.00	309			900																															
83-2	4663	138.00	140.00	2.00	103			-100																															
83-2	4664	140.00	142.00	2.00	274			900																															
83-2	4665	142.00	144.00	2.00	309			-100																															
83-2	4666	144.00	146.00	2.00	343			600																															
83-2	4667	146.00	148.00	2.00	274			800																															
83-2	4668	148.00	150.00	2.00	171			500																															
83-2	4669	150.00	152.00	2.00	137			100																															
83-2	4670	152.00	154.00	2.00	206			100																															
83-2	4671	154.00	156.00	2.00	240			500																															
83-2	4672	156.00	158.00	2.00	137			-100																															
83-2	4673	158.00	160.00	2.00	103			-100																															
83-2	4674	160.00	162.00	2.00	206			-100																															
83-2	4675	162.00	164.00	2.00	274			-100																															
83-2	4676	164.00	166.00	2.00	377			2200																															
83-2	4677	166.00	168.00	2.00	1269			2600																															
83-2	4678	168.00	170.00	2.00	137			-100																															
83-2	4679	170.00	172.00	2.00	103			-100																															
83-2	4680	172.00	174.00	2.00	-34			-100																															
83-2	4681	174.00	176.00	2.00	103			-100																															
83-2	4682	176.00	178.00	2.00	103			-100																															
83-2	4683	178.00	180.00	2.00	171			-100																															
83-2	4684	180.00	182.00	2.00	514			1100																															
83-2	4685	182.00	186.00	4.00	206			4800																															
83-2	4686	186.00	190.00	4.00	1029			3100																															
83-2	4687	190.00	192.00	2.00	549			-100																															
83-2	4688	192.00	196.00	4.00	514			-100																															
83-2	4689	196.00	198.73	2.73	171			-100																															
83-3	4690	2.44	6.00	3.56	514			200																															
83-3	4691	6.00	8.00	2.00	309			-100																															
83-3	4692	8.00	10.00	2.00	411			800																															
83-3	4693	10.00	12.00	2.00	411			6000																															
83-3	4694	12.00	14.00	2.00	583			1800																															
83-3	4695	14.00	16.00	2.00	1200			200																															
83-3	4696	16.00	18.00	2.00	309			-100																															
83-3	4697	18.00	20.00	2.00	309			2400																															
83-3	4698	20.00	22.00	2.00	411			800																															
83-3	4699	22.00	24.00	2.00	549			-100																															
83-3	4700	24.00	26.00	2.00	309			1500																															
83-3	4701	26.00	28.00	2.00	309			-100																															
83-3	4702	28.00	30.00	2.00	69			5400																															
83-3	4703	30.00	32.00	2.00	69			1600																															
83-3	4704	32.00	34.00	2.00	69			2500																															
83-3	4705	34.00	36.00	2.00	69			2100																															
83-3	4706	36.00	38.00	2.00	69			1000																															
83-3	4707	38.00	40.00	2.00	137			300																															
83-3	4708	40.00	42.00	2.00	137			800																															
83-3	4709	42.00	44.00	2.00	206			3600																															
83-3	4710	44.00	46.00	2.00	206			5400																															
83-3	4711	46.00	48.00	2.00	206			700																															
83-3	4712	48.00	50.00	2.00	206			300																															
83-3	4713	50.00	52.00	2.00	309			5000																															
83-3	4714	52.00	54.00	2.00	789			2700																															
83-3	4715	54.00	56.00	2.00	103			300																															
83-3	4716	56.00	58.00	2.00	69			100																															
83-3	4717	58.00	60.00	2.00	2709			3100																															
83-3	4718	60.00	62.00	2.00	583			1100																															
83-3	4719	62.00	64.00	2.00	206			600																															
83-3	4720	64.00	66.00	2.00	1097			2200																															
83-3	4721	66.00	68.00	2.00	514			2200																															

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
83-3	4722	68.00	70.00	2.00	514			1100																															
83-3	4723	70.00	72.00	2.00	206			300																															
83-3	4724	72.00	74.00	2.00	309			600																															
83-3	4725	74.00	76.00	2.00	514			100																															
83-3	4726	76.00	78.00	2.00	103			-100																															
83-3	4727	78.00	80.00	2.00	103			-100																															
83-3	4728	80.00	82.00	2.00	206			-100																															
83-3	4729	82.00	84.00	2.00	514			-100																															
83-3	4730	84.00	86.00	2.00	103			-100																															
83-3	4731	86.00	88.00	2.00	103			-100																															
83-3	4732	88.00	90.00	2.00	103			-100																															
83-3	4733	90.00	92.00	2.00	206			-100																															
83-3	4734	92.00	94.00	2.00	103			-100																															
83-3	4735	94.00	96.00	2.00	137			-100																															
83-3	4736	96.00	98.00	2.00	137			-100																															
83-3	4737	98.00	100.00	2.00	137			-100																															
83-3	4738	100.00	102.00	2.00	206			-100																															
83-3	4739	102.00	104.00	2.00	206			-100																															
83-3	4740	104.00	106.00	2.00	274			-100																															
83-3	4741	106.00	108.00	2.00	206			-100																															
83-3	4742	108.00	110.00	2.00	309			-100																															
83-3	4743	110.00	112.00	2.00	411			-100																															
83-3	4744	112.00	114.00	2.00	240			-100																															
83-3	4745	114.00	116.00	2.00	1714			1200																															
83-3	4746	118.00	120.00	2.00	206			-100																															
83-3	4747	122.00	124.00	2.00	206			100																															
83-3	4748	126.00	128.00	2.00	789			-100																															
83-3	4749	130.00	132.00	2.00	137			100																															
83-3	4750	134.00	136.00	2.00	137			-100																															
83-3	4751	138.00	140.00	2.00	137			100																															
83-3	4752	142.00	144.00	2.00	137			100																															
83-3	4753	146.00	148.00	2.00	103			-100																															
83-3	4754	150.00	152.00	2.00	103			-100																															
83-3	4755	154.00	156.00	2.00	137			-100																															
83-3	4756	158.00	160.00	2.00	137			-100																															
83-3	4757	162.00	164.00	2.00	137			-100																															
83-3	4758	166.00	168.00	2.00	137			-100																															
83-3	4759	170.00	172.00	2.00	137			-100																															
83-3	4760	174.00	176.00	2.00	137			-100																															
83-3	4761	178.00	180.00	2.00	137			-100																															
83-3	4762	182.00	184.00	2.00	309			-100																															
83-3	4763	186.00	188.00	2.00	103			-100																															
83-3	4764	188.00	189.68	1.68	103			-100																															
83-4	4765	3.96	10.00	6.04	69			-100																															
83-4	4766	10.00	12.00	2.00	103			-100																															
83-4	4767	12.00	14.00	2.00	137			-100																															
83-4	4768	14.00	16.00	2.00	206			-100																															
83-4	4769	16.00	18.00	2.00	1234			-100																															
83-4	4770	18.00	20.00	2.00	480			1600																															
83-4	4771	20.00	22.00	2.00	103			600																															
83-4	4772	22.00	24.00	2.00	103			-100																															
83-4	4773	24.00	26.00	2.00	103			-100																															
83-4	4774	26.00	28.00	2.00	103			-100																															
83-4	4775	28.00	30.00	2.00	240			-100																															
83-4	4776	30.00	32.00	2.00	343			400																															
83-4	4777	32.00	34.00	2.00	309			-100																															
83-4	4778	34.00	36.00	2.00	411			-100																															
83-4	4779	36.00	38.00	2.00	103			-100																															
83-4	4780	38.00	40.00	2.00	206			-100																															
83-4	4781	40.00	42.00	2.00	69			-100																															
83-4	4782	42.00	44.00	2.00	103			-100																															
83-4	4783	44.00	46.00	2.00	69			-100																															
83-4	4784	46.00	48.00	2.00	69			-100																															
83-4	4785	48.00	50.00	2.00	103			-100																															
83-4	4786	50.00	52.00	2.00	206			400																															
83-4	4787	52.00	54.00	2.00	103			200																															
83-4	4788	54.00	56.00	2.00	69			-100																															
83-4	4789	56.00	58.00	2.00	69			-100																															
83-4	4790	58.00	60.00	2.00	103			-100																															
83-4	4791	60.00	62.00	2.00	103			-100																															
83-4	4792	62.00	64.00	2.00	583			-100																															
83-4	4793	64.00	66.00	2.00	34			-100																															
83-4	4794	66.00	68.00	2.00	206			-100																															
83-4	4795	68.00	70.00	2.00	103			-100																															

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
83-4	4796	70.00	72.00	2.00	206			-100																															
83-4	4797	72.00	74.00	2.00	137			-100																															
83-4	4798	74.00	76.00	2.00	137			-100																															
83-4	4799	76.00	78.00	2.00	103			-100																															
83-4	4800	78.00	80.00	2.00	103			-100																															
83-4	4801	80.00	82.00	2.00	103			-100																															
83-4	4802	82.00	84.00	2.00	103			-100																															
83-4	4803	84.00	86.00	2.00	137			-100																															
83-4	4804	86.00	88.00	2.00	206			-100																															
83-4	4805	88.00	90.00	2.00	103			-100																															
83-4	4806	90.00	92.00	2.00	103			-100																															
83-4	4807	92.00	94.00	2.00	137			-100																															
83-4	4808	94.00	96.00	2.00	137			-100																															
83-4	4809	96.00	98.00	2.00	137			-100																															
83-4	4810	98.00	100.00	2.00	137			-100																															
83-4	4811	100.00	102.00	2.00	206			-100																															
83-4	4812	102.00	104.00	2.00	206			-100																															
83-4	4813	104.00	106.00	2.00	206			-100																															
83-4	4814	106.00	108.00	2.00	103			300																															
83-4	4815	108.00	110.00	2.00	103			-100																															
83-4	4816	110.00	112.00	2.00	103			-100																															
83-4	4817	112.00	114.00	2.00	103			-100																															
83-4	4818	114.00	116.00	2.00	103			-100																															
83-4	4819	116.00	118.00	2.00	206			900																															
83-4	4820	118.00	120.00	2.00	309			5900																															
83-4	4821	120.00	122.00	2.00	309			2800																															
83-4	4822	122.00	124.00	2.00	309			3200																															
83-4	4823	124.00	126.00	2.00	309			-100																															
83-4	4824	126.00	128.00	2.00	309			-100																															
83-4	4825	128.00	130.00	2.00	309			1100																															
83-4	4826	130.00	132.00	2.00	309			-100																															
83-4	4827	132.00	134.00	2.00	309			-100																															
83-4	4828	134.00	136.00	2.00	103			-100																															
83-4	4829	136.00	138.00	2.00	103			-100																															
83-4	4830	138.00	140.00	2.00	103			-100																															
83-4	4831	140.00	142.00	2.00	103			-100																															
83-4	4832	142.00	144.00	2.00	103			-100																															
83-4	4833	144.00	146.00	2.00	103			-100																															
83-4	4834	146.00	148.00	2.00	137			-100																															
83-4	4835	148.00	150.00	2.00	137			-100																															
83-4	4836	150.00	152.00	2.00	137			-100																															
83-4	4837	152.00	154.00	2.00	137			-100																															
83-4	4838	154.00	156.00	2.00	137			-100																															
83-4	4839	156.00	158.00	2.00	206			-100																															
83-4	4840	158.00	160.00	2.00	206			500																															
83-4	4841	160.00	162.00	2.00	137			-100																															
83-4	4842	162.00	164.00	2.00	137			-100																															
83-4	4843	164.00	166.00	2.00	137			-100																															
83-4	4844	166.00	167.95	1.95	137			-100																															
83-5	4845	3.35	6.00	2.65	137			100																															
83-5	4846	6.00	8.00	2.00	137			-100																															
83-5	4847	8.00	10.00	2.00	137			2000																															
83-5	4848	10.00	12.00	2.00	206			1100																															
83-5	4849	12.00	14.00	2.00	137			800																															
83-5	4850	14.00	16.00	2.00	206			6000																															
83-5	4851	16.00	18.00	2.00	137			6100																															
83-5	4852	18.00	20.00	2.00	137			-100																															
83-5	4853	20.00	22.00	2.00	137			-100																															
83-5	4854	22.00	24.00	2.00	137			-100																															
83-5	4855	24.00	26.00	2.00	137			-100																															
83-5	4856	26.00	28.00	2.00	137			-100																															
83-5	4857	28.00	30.00	2.00	103			-100																															
83-5	4858	30.00	32.00	2.00	103			-100																															
83-5	4859	32.00	34.00	2.00	103			-100																															
83-5	4860	34.00	36.00	2.00	103			-100																															
83-5	4861	36.00	38.00	2.00	137			-100																															
83-5	4862	38.00	40.00	2.00	103			-100																															
83-5	4863	40.00	42.00	2.00	103			-100																															
83-5	4864	42.00	44.00	2.00	309			-100																															
83-5	4865	44.00	46.00	2.00	309			-100																															
83-5	4866	46.00	48.00	2.00	206			-100																															
83-5	4867	48.00	50.00	2.00	309			-100																															
83-5	4868	50.00	52.00	2.00	309			-100																															
83-5	4869	52.00	54.00	2.00	206			-100																															

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
83-5	4870	54.00	56.00	2.00	206			-100																															
83-5	4871	56.00	58.00	2.00	137			-100																															
83-5	4872	58.00	60.00	2.00	891			2900																															
83-5	4873	60.00	62.00	2.00	309			5200																															
83-5	4874	62.00	64.00	2.00	137			100																															
83-5	4875	64.00	66.00	2.00	137			-100																															
83-5	4876	66.00	68.00	2.00	137			2800																															
83-5	4877	68.00	70.00	2.00	103			2800																															
83-5	4878	70.00	72.00	2.00	103			2400																															
83-5	4879	72.00	74.00	2.00	103			500																															
83-5	4880	74.00	76.00	2.00	103			100																															
83-5	4881	76.00	78.00	2.00	137			200																															
83-5	4882	78.00	80.00	2.00	103			200																															
83-5	4883	80.00	82.00	2.00	103			-100																															
83-5	4884	82.00	84.00	2.00	103			-100																															
83-5	4885	84.00	86.00	2.00	103			-100																															
83-5	4886	86.00	88.00	2.00	103			1800																															
83-5	4887	88.00	90.00	2.00	137			1000																															
83-5	4888	90.00	92.00	2.00	137			-100																															
83-5	4889	92.00	94.00	2.00	137			3200																															
83-5	4890	94.00	96.00	2.00	103			700																															
83-5	4891	96.00	98.00	2.00	103			2000																															
83-5	4892	98.00	100.00	2.00	103			400																															
83-5	4893	100.00	102.00	2.00	137			700																															
83-5	4894	102.00	104.00	2.00	137			2700																															
83-5	4895	104.00	106.00	2.00	206			-100																															
83-5	4896	106.00	108.00	2.00	103			-100																															
83-5	4897	108.00	110.00	2.00	137			-100																															
83-5	4898	110.00	112.17	2.17	137			-100																															
83-6	4899	3.96	6.40	2.44	-34			100																															
83-6	4900	6.40	8.23	1.83	-34			400																															
83-6	4901	8.23	9.81	1.58	-34			500																															
83-6	4902	9.81	13.41	3.60	-34			300																															
83-6	4903	13.41	15.24	1.83	-34			100																															
83-6	4904	15.24	17.07	1.83	-34			200																															
83-6	4905	17.07	18.90	1.83	-34			100																															
83-6	4906	18.90	20.12	1.22	-34			-100																															
83-6	4907	20.12	22.00	1.88	-34			-100																															
83-6	4908	22.00	24.00	2.00	-34			-100																															
83-6	4909	24.00	26.00	2.00	-34			-100																															
83-6	4910	26.00	28.00	2.00	-34			-100																															
83-6	4911	28.00	30.00	2.00	-34			-100																															
83-6	4912	30.00	32.00	2.00	-34			-100																															
83-6	4913	32.00	34.00	2.00	-34			700																															
83-6	4914	34.00	36.00	2.00	-34			100																															
83-6	4915	36.00	38.00	2.00	-34			100																															
83-6	4916	38.00	40.00	2.00	-34			-100																															
83-6	4917	40.00	42.00	2.00	-34			4700																															
83-6	4918	42.00	44.00	2.00	-34			-100																															
83-6	4919	44.00	46.00	2.00	-34			-100																															
83-6	4920	46.00	48.00	2.00	206			-100																															
83-6	4921	48.00	50.00	2.00	206			-100																															
83-6	4922	50.00	52.00	2.00	69			1600																															
83-6	4923	52.00	54.00	2.00	309			2800																															
83-6	4924	54.00	56.00	2.00	137			2600																															
83-6	4925	56.00	58.00	2.00	137			2900																															
83-6	4926	58.00	60.00	2.00	137			1600																															
83-6	4927	60.00	62.00	2.00	13817			5500																															
83-6	4928	62.00	64.00	2.00	-34			400																															
83-6	4929	64.00	66.00	2.00	-34			-100																															
83-6	4930	66.00	68.00	2.00	-34			300																															
83-6	4931	68.00	70.00	2.00	-34			100																															
83-6	4932	70.00	72.00	2.00	-34			200																															
83-6	4933	72.00	74.00	2.00	-34			200																															
83-6	4934	74.00	76.00	2.00	-34			3400																															
83-6	4935	76.00	80.00	4.00	-34			3700																															
83-6	4936	80.00	82.00	2.00	-34			6600																															
83-6	4937	82.00	84.00	2.00	-34			1400																															
83-6	4938	84.00	86.00	2.00	-34			1500																															
83-6	4939	86.00	88.00	2.00	206			900																															
83-6	4940	88.00	90.00	2.00	-34			2500																															
83-6	4941	90.00	92.00	2.00	-34			2800																															
83-6	4942	92.00	94.00	2.00	-34			4800																															
83-6	4943	94.00	96.00	2.00	-34			900																															

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
83-6	4944	96.00	98.00	2.00	480			1100																															
83-6	4945	98.00	100.00	2.00	103			1700																															
83-6	4946	100.00	102.00	2.00	103			800																															
83-6	4947	102.00	104.00	2.00	103			3500																															
83-6	4948	104.00	106.00	2.00	480			8100																															
83-6	4949	106.00	108.00	2.00	103			3700																															
83-6	4950	108.00	110.00	2.00	103			3500																															
83-6	4951	110.00	112.00	2.00	206			6000																															
83-6	4952	112.00	114.00	2.00	137			1600																															
83-6	4953	114.00	116.00	2.00	137			3100																															
83-6	4954	116.00	118.00	2.00	13029			1600																															
83-6	4955	118.00	120.00	2.00	8914			3000																															
83-6	4956	120.00	122.00	2.00	994			-100																															
83-6	4957	122.00	124.00	2.00	103			-100																															
83-6	4958	124.00	126.00	2.00	1817			1100																															
83-6	4959	126.00	128.00	2.00	12000			7400																															
83-6	4960	128.00	130.00	2.00	137			11200																															
83-6	4961	130.00	132.00	2.00	-34			-100																															
83-6	4962	132.00	134.00	2.00	-34			100																															
83-6	4963	134.00	136.00	2.00	-34			900																															
83-6	4964	136.00	138.00	2.00	-34			3000																															
83-6	4965	138.00	140.00	2.00	-34			-100																															
83-6	4966	140.00	142.00	2.00	-34			-100																															
83-6	4967	142.00	144.00	2.00	-34			100																															
83-6	4968	144.00	146.00	2.00	-34			-100																															
83-6	4969	146.00	148.00	2.00	-34			-100																															
83-6	4970	148.00	150.00	2.00	-34			-100																															
83-6	4971	150.00	152.00	2.00	-34			-100																															
83-6	4972	152.00	154.00	2.00	-34			-100																															
83-6	4973	154.00	156.00	2.00	-34			-100																															
83-6	4974	156.00	158.00	2.00	-34			-100																															
83-6	4975	158.00	160.00	2.00	-34			-100																															
83-6	4976	160.00	162.00	2.00	-34			100																															
83-6	4977	162.00	164.00	2.00	-34			-100																															
83-6	4978	164.00	166.00	2.00	-34			-100																															
83-6	4979	166.00	168.00	2.00	-34			-100																															
83-6	4980	168.00	170.00	2.00	-34			-100																															
83-6	4981	170.00	172.00	2.00	-34			-100																															
83-6	4982	172.00	174.00	2.00	-34			1700																															
83-6	4983	174.00	176.00	2.00	-34			100																															
83-6	4984	176.00	178.00	2.00	-34			100																															
83-6	4985	178.00	180.00	2.00	-34			-100																															
83-6	4986	180.00	182.00	2.00	-34			-100																															
83-6	4987	182.00	184.00	2.00	377			5000																															
83-6	4988	184.00	186.00	2.00	240			4800																															
83-6	4989	186.00	188.00	2.00	206			600																															
83-6	4990	188.00	190.00	2.00	69			-100																															
83-6	4991	190.00	192.00	2.00	69			-100																															
83-6	4992	192.00	194.00	2.00	69			300																															
83-6	4993	194.00	196.00	2.00	69			100																															
83-6	4994	196.00	198.00	2.00	103			900																															
83-6	4995	198.00	200.00	2.00	103			-100																															
83-6	4996	200.00	202.00	2.00	686			1400																															
83-6	4997	202.00	204.00	2.00	69			-100																															
83-6	4998	204.00	206.00	2.00	69			-100																															
83-6	4999	206.00	208.00	2.00	69			200																															
83-6	7601	208.00	210.00	2.00	2503			-100																															
83-6	7602	210.00	212.00	2.00	103			100																															
83-6	7603	212.00	214.00	2.00	309			300																															
83-6	7604	214.00	216.00	2.00	103			-100																															
83-6	7605	216.00	218.00	2.00	480			-100																															
83-6	7606	218.00	220.00	2.00	103			-100																															
83-6	7607	220.00	222.00	2.00	103			-100																															
83-6	7608	222.00	224.00	2.00	1303			400																															
83-6	7609	224.00	226.00	2.00	103			-100																															
83-6	7610	226.00	228.00	2.00	69			-100																															
83-6	7611	228.00	230.00	2.00	69			-100																															
83-6	7612	230.00	232.00	2.00	69			-100																															
83-6	7613	232.00	234.00	2.00	69			-100																															
83-6	7614	234.00	236.00	2.00	69			-100																															
83-6	7615	236.00	238.00	2.00	69			-100																															
83-6	7616	238.00	240.00	2.00	206			-100																															
83-6	7617	240.00	242.00	2.00	69			-100																															
83-6	7618	242.00	244.00	2.00	69			-100																															

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
83-6	7619	244.00	246.00	2.00	69			-100																															
83-6	7620	246.00	248.00	2.00	69			-100																															
83-6	7621	248.00	250.00	2.00	-34			-100																															
83-6	7622	250.00	252.00	2.00	-34			-100																															
83-6	7623	252.00	254.00	2.00	-34			-100																															
83-6	7624	254.00	256.00	2.00	-34			-100																															
83-6	7625	256.00	258.00	2.00	-34			-100																															
83-6	7626	258.00	260.00	2.00	-34			-100																															
83-6	7627	260.00	262.00	2.00	-34			-100																															
83-6	7628	262.00	264.00	2.00	-34			-100																															
83-6	7629	264.00	266.00	2.00	-34			-100																															
83-6	7630	266.00	268.00	2.00	-34			-100																															
83-6	7631	268.00	270.00	2.00	-34			-100																															
83-6	7632	270.00	272.00	2.00	-34			3900																															
83-6	7633	272.00	274.00	2.00	-34			200																															
83-6	7634	274.00	276.00	2.00	-34			100																															
83-6	7635	276.00	278.00	2.00	-34			-100																															
83-6	7636	278.00	280.00	2.00	-34			700																															
83-6	7637	280.00	282.00	2.00	-34			1600																															
83-6	7638	282.00	284.00	2.00	-34			700																															
83-6	7639	284.00	286.00	2.00	-34			-100																															
83-6	7640	286.00	288.00	2.00	-34			100																															
83-6	7641	288.00	290.00	2.00	-34			-100																															
83-6	7642	290.00	292.00	2.00	-34			-100																															
83-6	7643	292.00	294.00	2.00	-34			-100																															
83-6	7644	294.00	296.88	2.88	-34			-100																															
84-1	7000	30.60	32.00	1.40	10	-0.1		14									8												7		1								58
84-1	7026	58.80	59.30	0.50	3600	-0.1		10000									22												8		1								14
84-1	7001	59.30	62.30	3.00	-5	0.1		150									30												1		1								66
84-1	7002	62.30	64.30	2.00	5	-0.1		210									8												8		1								66
84-1	7003	64.30	66.30	2.00	10	0.2		90									16												1		1								78
84-1	7004	66.30	68.30	2.00	-5	0.1		12									34												1		1								64
84-1	7005	68.30	70.30	2.00	10	0.1		40									18												8		1								60
84-1	7006	70.30	72.30	2.00	25	0.3		360									20												3		1								48
84-1	7024	72.30	74.30	2.00	15	-0.1		20									44												1		1								64
84-1	7025	74.30	76.40	2.10	180	-0.1		2050									42												1		1								52
84-1	7007	76.40	78.40	2.00	1600	0.1		3500									8												2		1								22
84-1	7008	78.40	80.40	2.00	40	-0.1		380									10												4		1								36
84-1	7009	80.40	82.40	2.00	-5	0.1		78									12												1		1								40
84-1	7010	82.40	84.00	1.60	50	0.1		120									22												1		1								48
84-1	7011	94.20	96.20	2.00	45	0.1		96									58												5		1								72
84-1	7012	96.20	98.20	2.00	330	0.1		120									40												2		1								58
84-1	7013	98.20	100.20	2.00	-5	0.1		2									26												1		1								56
84-1	7014	100.20	102.20	2.00	-5	0.6		2									24												1		1								46
84-1	7015	102.20	104.20	2.00	30	0.1		115									30												1		1								28
84-1	7016	104.20	106.20	2.00	20	0.2		64									34												1		1								38
84-1	7017	106.20	108.20	2.00	150	-0.1		50									70												4		1								32
84-1	7018	108.20	110.20	2.00	20	-0.1		30									44												2		1								42
84-1	7019	110.20	112.20	2.00	-5	-0.1		20									36												1		1								58
84-1	7020	112.20	114.20	2.00	25	-0.1		20									56												1		1								62
84-1	7021	114.20	116.20	2.00	40	0.2		30									66												3		1								46
84-1	7022	116.20	118.20	2.00	15	-0.1		10									46												1		1								40
84-1	7023	118.20	121.00	2.80	10	-0.1		10									17												1		1								40
84-1	469	160.90	162.80	1.90	140	-0.1		2600									46												6		1								24
84-1	470	162.80	164.80	2.00	30	-0.1		170									11												1		1								44
84-1	471	164.80	166.40	1.60	110	-0.1		2100									9												1		1								18
84-1	472	166.40	168.40	2.00	430	-0.1		2700									21												1		1								28
84-1	473	168.40	170.60	2.20	870	0.4		2550									22												3		1								34
84-2	431	43.80	45.80	2.00	90	0.2		2800									26												5		1								20
84-2	432	45.80	47.80	2.00	80	-0.1		110									17												1		1								26
84-2	433	47.80	49.80	2.00	5	-0.1		80									22												1		1								38
84-2	434	49.80	51.80	2.00	100	0.4		1400									70												1		1								38
84-2	435	51.80	53.80	2.00	1000	0.4		10000									10												2		1								22
84-2	436	53.80	55.80	2.00	580	-0.1		8400									11												1		1								26
84-2	437	55.80	57.80	2.00	150	0.2		2500									52												1		1								30
84-2	438	57.80	59.80	2.00	60	-0.1		600									40												1		1								38
84-2	439	59.80	61.80	2.00	690	0.4		3400									78												1		1								34
84-2	440	61.80	63.80	2.00	30	-0.1		140									52												1		1								42
84-2	441	79.20	80.20	1.00	10	0.4		90									40												3		1								58
84-2	442	80.20	82.20	2.00	40	0.2		1200									20												7		1								80
84-2	443	82.20	84.20	2.00	50	-0.1		50									8												2		1								14
84-2	444	84.20	86.20	2.00	50	0.2		140									11												1		1								13
84-2	445	86.20	88.20	2.00	210	0.2		50									8												1		1								24
84-2	446	88.20	90.20	2.00	1400	0.2		210									9												1		1								28

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
84-2	447	90.20	92.20	2.00	40	0.2		70									6												2		1								20
84-2	448	94.20	96.20	2.00	20	-0.1		80									7												1		1								34
84-2	449	98.60	100.20	1.60	30	0.2		60									23												1		1								36
84-2	450	106.90	108.50	1.60	35	0.2		60									12												3		1								17
84-2	451	108.50	110.50	2.00	20	-0.1		10									46												3		1								34
84-2	452	123.50	125.50	2.00	140	-0.1		60									6												1		1								62
84-2	453	125.50	127.50	2.00	130	0.2		450									16												1		1								60
84-2	454	130.00	132.00	2.00	840	0.2		2700									22												1		1								38
84-2	455	132.00	133.20	1.20	110	0.2		1800									16												2		1								42
84-2	456	133.20	135.20	2.00	880	-0.1		3800									11												1		1								26
84-2	457	135.20	137.20	2.00	900	-0.1		410									8												1		1								38
84-2	458	137.20	139.20	2.00	3700	0.2		6400									29												1		1								38
84-2	459	145.90	148.10	2.20	2600	-0.1		2700									15												1		1								66
84-2	460	164.90	166.20	1.30	110	-0.1		60									16												3		1								42
84-2	461	166.20	168.20	2.00	60	-0.1		490									20												1		1								48
84-2	462	168.20	170.20	2.00	210	-0.1		290									11												1		1								62
84-2	474	172.70	179.20	6.50	70	0.4		40									34												2		1								58
84-2	475	179.20	181.20	2.00	1350	-0.1		6300									47												7		1								26
84-2	476	181.20	183.20	2.00	20	0.2		60									6												1		1								50
84-2	477	183.20	185.20	2.00	16500	0.2		500									14												4		1								24
84-2	478	185.20	186.70	1.50	2100	-0.1		810									30												2		1								54
84-2	479	192.40	194.40	2.00	150	-0.1		450									7												1		1								36
84-2	480	194.40	196.40	2.00	120	-0.1		150									15												1		1								32
84-2	481	196.40	198.40	2.00	20	-0.1		30									4												1		1								44
84-2	482	198.40	200.40	2.00	30	-0.1		20									3												5		1								50
84-2	483	200.40	202.40	2.00	15	-0.1		10									8												1		1								50
84-2	484	202.40	204.40	2.00	20	-0.1		10									11												1		1								60
84-2	485	204.40	206.40	2.00	50	-0.1		30									9												2		1								50
84-2	486	206.40	208.40	2.00	180	-0.1		2100									30												1		1								52
84-2	487	208.40	210.40	2.00	1400	0.4		6100									48												2		1								68
84-2	488	210.40	212.40	2.00	720	0.2		3800									36												3		1								72
84-2	489	212.40	214.40	2.00	15600	0.2		850									38												1		1								66
84-2	490	214.40	216.40	2.00	30	-0.1		50									23												2		1								90
84-2	491	216.40	218.20	1.80	90	-0.1		470									33												1		1								78
84-3	701	27.00	29.00	2.00	70	0.2		920									24												1		1								64
84-3	702	29.00	32.00	3.00	900	0.2		1510									15												1		1								32
84-3	703	32.00	34.00	2.00	320	0.8		1830									22												8		1								42
84-3	704	34.00	36.00	2.00	50	1.8		760									60												8		1								20
84-3	705	36.00	38.00	2.00	630	1.6		6400									28												290		1								92
84-3	706	38.00	40.50	2.50	40	0.4		300									28												4		1								34
84-3	492	40.50	42.50	2.00	50	0.4		500									36												5		1								30
84-3	493	42.50	45.00	2.50	500	0.4		3200									28												134		1								38
84-3	707	45.00	47.00	2.00	520	0.2		2900									28												3		1								24
84-3	708	47.00	49.00	2.00	360	-0.1		2300									28												2		1								32
84-3	709	49.00	51.10	2.10	15	-0.1		20									56												4		1								50
84-3	494	51.10	53.10	2.00	430	0.4		3600									46												4		1								32
84-3	495	53.10	55.10	2.00	610	0.6		5000									42												26		1								46
84-3	710	55.10	57.10	2.00	5	0.2		160									15												11		1								56
84-3	711	57.10	60.50	3.40	-5	-0.1		10									30												1		1								38
84-3	496	60.50	63.30	2.80	180	0.4		1100									30												1		1								40
84-3	497	63.30	65.30	2.00	3150	0.4		4200									28												3		1								32
84-3	498	65.30	67.30	2.00	2300	0.4		2600									38												2		1								38
84-3	499	67.30	69.30	2.00	460	0.4		1340									34												1		1								36
84-3	500	69.30	71.30	2.00	2800	0.4		3200									38												2		1								36
84-3	523	71.30	73.30	2.00	520	0.6		1400									40												6		1								40
84-3	524	73.30	75.30	2.00	350	0.4		1600									38												1		1								42
84-3	525	75.30	77.30	2.00	50	0.4		740									42												1		1								50
84-3	526	77.30	79.30	2.00	430	1.2		2000									42												11		1								44
84-3	527	79.30	81.50	2.20	70	0.8		1180									34												1		1								60
84-3	528	81.50	83.50	2.00	-5	0.8		180									28												3		1								86
84-3	529	83.50	85.50	2.00	70	2.2		2200									40												43		1								62
84-3	530	85.50	87.50	2.00	70	1.6		1100									36												2		1								70
84-3	531	87.50	89.50	2.00	120	-0.1		790									15												1		1								58
84-3	712	89.50	91.50	2.00	50	1.4		980									38												1		1								42
84-3	713	91.50	93.50	2.00	25	-0.1		340									42												1		1								48
84-3	714	93.50	95.50	2.00	15	0.4		110									68												1		1								60
84-3	715	95.50	97.50	2.00	5	-0.1		10									15												1		1								32
84-3	716	97.50	99.50	2.00	5	-0.1		30									20												1		1								24
84-3	717	99.50	101.50	2.00	40	0.6		40									54												1		1								22
84-3	718	101.50	103.50	2.00	50	-0.1		20									24												1		1								22
84-3	719	103.50	105.50	2.00	15	-0.1		10									34												1		1								42
84-3	720	105.50	107.50	2.00	5500	0.6		2350									44												1		1								36
84-3	721	107.50	109.50	2.00	240	1		1500									48												2		1								48
84-3	722	109.50	111.50	2.00	40	0.4		110									46												4		1								54

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
84-3	723	111.50	113.50	2.00	2000	0.6		5400									46												5		1								50
84-3	724	113.50	115.50	2.00	20	0.6		510									76												9		1								68
84-3	725	115.50	117.90	2.40	-5	0.2		20									74												2		1								54
84-3	726	117.90	118.90	1.00	-5	0.4		10									40												1		1								24
84-3	501	127.50	130.00	2.50	200	-0.1		590									26												1		1								54
84-3	727	145.00	146.00	1.00	1600	0.2		10000									24												1		1								26
84-3	728	146.00	148.00	2.00	70	-0.1		70									12												1		1								32
84-3	729	148.00	150.00	2.00	250	1.4		4000									32												34		1								18
84-3	730	150.00	152.00	2.00	220	-0.1		2000									18												1		1								38
84-3	731	152.00	154.00	2.00	50	-0.1		130									26												1		1								38
84-3	732	172.00	173.00	1.00	400	-0.1		2600									22												24		1								36
84-3	733	177.70	178.70	1.00	50	-0.1		20									36												5		1								44
84-3	734	178.70	179.30	0.60	320	-0.1		580									7												1		1								58
84-3	735	179.30	182.20	2.90	30	-0.1		10									46												2		1								38
84-3	532	187.00	189.00	2.00	25	-0.1		710									19												1		1								50
84-3	533	189.00	191.00	2.00	125	-0.1		80									26												1		1								42
84-3	534	191.00	192.40	1.40	390	-0.1		510									20												1		1								30
84-4	535	9.14	10.97	1.83	640	-0.1		3000									50												2		1								66
84-4	536	10.97	12.97	2.00	4100	0.2		10000									24												1		1								30
84-4	537	12.97	14.00	1.03	2400	-0.1		1880									26												1		1								46
84-4	538	14.00	17.00	3.00	210	-0.1		840									50												2		1								38
84-4	539	17.00	20.00	3.00	50	-0.1		30									24												3		1								38
84-4	540	20.00	22.00	2.00	15	-0.1		30									30												3		1								46
84-4	541	22.00	24.00	2.00	450	-0.1		60									17												1		1								40
84-4	542	24.00	26.00	2.00	85	-0.1		260									24												3		1								36
84-4	543	26.00	28.00	2.00	180	-0.1		30									18												1		1								42
84-4	544	28.00	30.00	2.00	25	-0.1		20									24												1		1								46
84-4	545	30.00	32.00	2.00	-5	-0.1		10									18												1		1								30
84-4	546	39.00	41.00	2.00	-5	-0.1		760									24												2		1								28
84-4	547	46.70	48.70	2.00	-5	-0.1		270									22												4		1								19
84-4	134153	59.60	59.70	0.10	485	-0.2	3.17	256	-10	30	-0.5	6	9.49	-0.5	18	200	37	2.99	-10	1	0.02	-10	3.07	1060	-1	0.01	38	0.032	2	0.08	6	14	256	0.01	-10	-10	91	-10	36
84-4	548	67.00	69.00	2.00	150	-0.1		2500									36												5		1								40
84-4	549	69.00	71.00	2.00	70	-0.1		460									22												1		1								36
84-4	134154	71.00	73.30	2.30	45	-0.2	2.76	80	-10	250	-0.5	-2	1.41	-0.5	9	21	28	3.75	-10	-1	0.13	-10	2.6	465	-1	0.02	3	0.078	2	0.32	2	7	62	-0.01	-10	-10	17	-10	80
84-4	134155	73.30	75.30	2.00	-5	-0.2	3.22	112	-10	70	-0.5	6	0.94	-0.5	9	53	32	3.89	-10	1	0.07	-10	2.82	485	-1	0.02	9	0.085	2	0.32	4	10	31	-0.01	-10	-10	47	-10	70
84-4	134156	75.30	77.30	2.00	120	-0.2	3.26	534	-10	80	-0.5	8	0.98	-0.5	10	58	22	3.93	-10	-1	0.1	-10	2.88	510	-1	0.03	9	0.075	10	0.19	-2	11	32	-0.01	-10	-10	41	-10	84
84-4	134157	77.30	79.30	2.00	10	-0.2	2.82	64	-10	160	-0.5	-2	1.21	0.5	6	56	27	3.32	-10	-1	0.12	-10	2.47	405	-1	0.01	4	0.071	8	0.21	6	6	53	-0.01	-10	-10	17	-10	138
84-4	134158	79.30	81.30	2.00	-5	-0.2	3.18	12	-10	130	-0.5	-2	1.8	0.5	7	41	22	3.83	-10	1	0.14	-10	2.68	510	1	0.01	3	0.101	2	0.17	4	6	63	-0.01	-10	-10	14	-10	102
84-4	134159	87.00	90.00	3.00	10	0.2	1.51	76	-10	60	-0.5	-2	9.85	-0.5	11	28	60	3.19	-10	-1	0.16	-10	0.96	780	-1	0.01	9	0.031	8	1.49	-2	3	143	0.01	-10	-10	17	-10	66
84-4	134160	90.00	91.00	1.00	40	0.2	0.63	198	-10	30	-0.5	-2	13.35	-0.5	5	22	34	1.91	-10	-1	0.12	-10	0.57	755	-1	0.01	9	0.015	12	1.36	-2	2	220	-0.01	-10	-10	6	-10	114
84-4	550	109.30	110.00	0.70	1400	-0.1		1540									26												1		1								40
84-4	551	121.00	123.00	2.00	25	-0.1		230									58												2		1								22
84-4	552	123.00	125.00	2.00	50	-0.1		220									32												9		1								24
84-4	134161	129.70	130.80	1.10	145	-0.2	4.05	544	-10	50	-0.5	-2	5.34	0.5	27	141	81	5.34	-10	1	0.07	-10	3.52	1255	-1	0.03	47	0.095	-2	0.12	2	19	189	-0.01	-10	-10	137	-10	58
84-4	134162	151.90	155.30	3.40	-5	0.4	0.48	340	-10	50	-0.5	-2	6.16	-0.5	14	23	73	4.13	-10	-1	0.18	-10	1.01	665	-1	0.03	10	0.042	12	2.06	-2	6	100	-0.01	-10	-10	16	-10	50
84-4	553	169.50	172.50	3.00	180	0.4		1480									46												36		1								80
84-4	134163	172.50	173.00	0.50	25600	6.2	3.15	28300	-10	50	-0.5	-2	4.07	2	25	98	12	5.91	-10	-1	0.12	-10	4.59	1870	-1	0.01	47	0.092	178	1.81	74	16	189	-0.01	-10	-10	85	-10	144
84-4	134164	173.00	174.50	1.50	5	0.2	4.18	84	-10	70	-0.5	-2	3.38	2	27	149	18	4.94	-10	-1	0.1	-10	4.4	1285	-1	0.03	50	0.091	6	0.16	14	21	169	0.03	-10	-10	136	-10	162
84-4	134165	179.30	179.60	0.30	750	-0.2	1.71	4870	-10	60	-0.5	6	1.71	-0.5	8	126	4	2.23	-10	-1	0.09	-10	2.43	875	-1	0.02	16	0.037	4	0.38	2	5	74	-0.01	-10	-10	38	-10	32
84-4	556	193.00	195.20	2.20	85	-0.1		160									24												14		1								34
84-4	557	195.20	197.00	1.80	40	-0.1		280									40												7		1								16
84-5	740	19.70	20.70	1.00	10	0.1		20									22												2		1								18
84-5	741	20.70	21.70	1.00	180	0.2		680									52												4		1								32
84-5	742	21.70	22.70	1.00	-5	0.1		20									56												3		1								36
84-5	743	28.70	30.70	2.00	-5	-0.1		30									36												3		1								52
84-5	744	30.70	32.70	2.00	-5	-0.1		20									38												4		1								40
84-5	745	32.70	34.70	2.00	-5	0.1		60									52												2		1								36
84-5	746	34.70	36.70	2.00	-5	-0.1		50									38												3		1								26
84-5	747	36.70	38.70	2.00	-5	-0.1		30									40												1		1								26
84-5	748	44.50	46.50	2.00	-5	-0.1		10									42												1		1								40
84-5	749	46.50	48.50	2.00	170	-0.1		490									58												1		1								32
84-5	750	48.50	50.00	1.50	24700	0.1		2600									60												4		1								26
84-5	751	50.00	51.50	1.50	750	0.6		2400									68												4		1								62
84-5	752	51.50	53.00	1.50	270	0.8		1200									76												10		1								56
84-5	753	53.00	54.50	1.50	20	0.2		190									58												5		1								34
84-5	754	54.50	55.50	1.00	60	-0.1		20									56												4		1								56
84-5	755	55.50	57.50	2.00	340	0.1		240									62												3		1								62
84-5	756	57.50	59.50	2.00	60	0.2		300									84												4		1								64
84-5	757	59.50	61.50	2.00	40	-0.1		10									38												2		1								52
84-5	758	61.50	63.50	2.00	40	-0.1		10									50												1		1								66
84-5	759	63.50	65.50	2.00	10	-0.1		10									90												1		1								72
84-5	760	68.60	70.60	2.00	30	0.1		260									48												8		1								46
84-5	761	78.40	79.90	1.50	430	0.2		2300									66												6		1								54
84-5	762	79.90	81.40	1.50	35	0.1		30									70												5		1								46

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
84-5	763	81.40	82.90	1.50	420	0.3		420									66												5		1								50
84-5	764	82.90	84.40	1.50	20	-0.1		240									52												4		1								40
84-5	765	84.40	86.40	2.00	15	-0.1		10									40												1		1								70
84-5	766	86.40	88.40	2.00	60	-0.1		20									36												1		1								52
84-5	767	88.40	90.40	2.00	170	-0.1		10									48												3		1								60
84-5	768	93.00	95.00	2.00	30	-0.1		80									50												1		1								52
84-5	769	95.00	96.00	1.00	50	1.2		1300									38												12		1								52
84-5	770	96.00	98.00	2.00	10	0.1		60									58												6		1								30
84-5	775	102.60	103.90	1.30	30	0.1		30									56												2		1								38
84-5	774	103.90	104.90	1.00	-5	0.1		30									60												5		1								40
84-5	771	113.50	114.50	1.00	10	-0.1		20									36												2		1								46
84-5	772	114.50	115.50	1.00	340	0.1		2900									26												62		1								44
84-5	773	115.50	116.50	1.00	-5	0.9		4700									58												92		2								48
84-5	776	116.50	118.50	2.00	5	0.1		640									42												6		1								40
84-5	777	118.50	120.50	2.00	40	-0.1		280									38												2		1								40
84-5	778	120.50	122.50	2.00	40	-0.1		420									42												7		1								48
84-5	779	122.50	124.50	2.00	5	0.2		50									40												15		1								50
84-5	780	124.50	126.50	2.00	220	4.3		4500									98												8		3								42
84-5	781	126.50	128.50	2.00	170	0.9		2000									56												1		1								40
84-5	782	128.50	129.90	1.40	20	0.7		110									38												1		1								40
84-5	783	129.90	130.80	0.90	30	2.6		140									82												2		1								36
84-5	784	130.80	132.90	2.10	4050	7.9		5000									760												15		140								48
84-5	785	132.90	134.00	1.10	25	0.3		180									128												1		1								50
84-5	786	134.00	135.50	1.50	760	2.8		5000									270												14		1								22
84-5	787	135.50	137.50	2.00	20	0.3		580									54												4		1								46
84-5	788	137.50	139.50	2.00	10	-0.1		570									46												2		1								34
84-5	789	139.50	141.50	2.00	10	0.1		110									42												1		1								38
84-5	790	141.50	143.50	2.00	10	-0.1		10									28												1		1								44
84-5	791	143.50	145.50	2.00	5	0.1		20									58												1		1								40
84-5	792	145.50	147.50	2.00	100	0.3		1700									30												1		1								30
84-5	793	147.50	149.50	2.00	-5	-0.1		20									32												4		1								40
84-5	794	149.50	152.00	2.50	-5	0.1		130									38												1		1								40
84-5	795	152.00	153.20	1.20	110	0.3		1700									24												3		1								46
84-5	796	153.20	154.20	1.00	10	-0.1		60									14												1		1								44
84-5	797	167.20	168.20	1.00	200	-0.1		650									44												1		1								54
84-5	798	178.90	179.90	1.00	240	-0.1		3700									62												6		1								64
84-5	799	179.90	181.90	2.00	1500	0.2		5000									22												3		1								32
84-5	800	181.90	184.70	2.80	710	1.3		5000									40												210		5								64
84-5	0750F	184.70	185.70	1.00	50	0.2		90									72												1		1								64
84-5	0751F	218.20	219.30	1.10	3200	1.5		5000									194												4		1								46
84-5	0752F	231.70	232.30	0.60	1600	0.6		5000									52												4		1								42
84-5	0753F	233.70	234.70	1.00	3500	0.4		5000									82												7		1								38
84-5	134166	244.40	244.60	0.20	9280	1.8	0.29	9900	-10	40	-0.5	-2	3.66	-0.5	10	65	7	3.25	-10	-1	0.13	-10	1.58	1430	-1	0.01	1	0.036	4	1.51	2	3	132	-0.01	-10	-10	5	50	10
84-5	0754F	246.50	247.50	1.00	310	0.1		4800									22												2		1								40
84-5	0755F	268.50	270.50	2.00	1100	0.2		2900									32												7		1								60
84-5	0756F	270.50	272.50	2.00	50	-0.1		780									20												1		1								38
84-5	0757F	274.90	276.40	1.50	140	-0.1		940									20												1		1								42
84-5	0758F	276.40	277.50	1.10	130	0.1		1450									24												6		1								24
84-5	0759F	279.00	281.00	2.00	50	-0.1		820									6												2		1								20
84-5	0760F	287.30	288.30	1.00	140	0.3		1380									10												3		1								24
84-5	0761F	291.00	293.00	2.00	760	0.3		180									8												2		1								22
84-5	0762F	293.00	295.00	2.00	170	-0.1		10									4												1		1								40
84-5	0763F	295.00	297.00	2.00	30	0.1		60									6												3		1								54
84-5	0764F	297.00	299.00	2.00	20	0.1		20									6												1		1								56
84-5	0765F	299.00	301.00	2.00	180	0.2		670									10												5		1								8
84-5	0766F	301.00	303.00	2.00	170	0.3		3800									30												3		1								10
84-5	0767F	303.00	305.00	2.00	210	0.1		2600									52												3		1								34
84-5	0768F	305.00	307.00	2.00	300	0.1		1500									38												3		1								44
84-5	0769F	307.00	309.00	2.00	30	0.1		120									52												3		1								46
84-5	0770F	309.00	311.00	2.00	30	-0.1		1000									42												2		1								44
84-5	0771F	311.00	313.00	2.00	410	0.2		1850									36												3		1								68
84-5	0772F	313.00	314.90	1.90	100	0.2		4500									78												2		1								32
84-6	0773F	22.20	23.60	1.40	690	-0.1		3700									26												2		1								44
84-6	0774F	23.60	26.20	2.60	120	-0.1		1650									16												1		1								76
84-6	0776F	28.20	30.20	2.00	360	-0.1		420									14												1		1								52
84-6	0777F	30.20	32.20	2.00	180	-0.1		170									12												1		1								52
84-6	0778F	32.20	34.20	2.00	10	-0.1		390									16												1		1								40
84-6	0779F	34.20	35.80	1.60	25	-0.1		140									12												1		1								52
84-6	0786F	73.50	75.50	2.00	25	-0.1		50									34												1		1								42
84-6	0787F	75.50	77.50	2.00	50	-0.1		50									52												1		1								52
84-6	0788F	77.50	79.50	2.00	30	-0.1		20									22												1		1								62
84-6	0789F	79.50	81.80	2.30	20	-0.1		10									22												1		1								66
84-6	0790F	87.20	87.50	0.30	1750	-0.1		50									34												1		1								48
84-6	0791F	90.20	92.00	1.80	60	-0.1		120									10												1		1								58

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
84-6	0792F	94.30	94.70	0.40	90	-0.1		10									10												1		1								28
84-6	0793F	98.70	100.00	1.30	960	-0.1		3100									30												2		1								72
84-6	0794F	101.00	102.00	1.00	60	-0.1		40									12												2		1								76
84-6	0795F	108.00	108.50	0.50	4200	-0.1		4600									30												2		1								62
84-6	0796F	111.60	113.60	2.00	350	-0.1		1150									16												1		1								68
84-6	0797F	114.60	116.60	2.00	1300	-0.1		2300									22												1		1								60
84-6	0798F	116.60	118.60	2.00	530	-0.1		3000									16												1		1								50
84-6	0799F	118.60	120.70	2.10	460	0.2		5000									44												9		1								44
84-6	5600E	131.10	132.30	1.20	35	-0.1		530									32												1		1								60
84-6	5601E	133.50	135.50	2.00	30	0.1		360									26												4		1								86
84-6	5602E	135.50	137.50	2.00	40	-0.1		2300									28												1		1								72
84-6	5603E	137.50	139.60	2.10	40	0.2		2400									28												2		1								56
84-6	5604E	145.70	146.60	0.90	60	-0.1		2800									30												2		1								48
84-6	5605E	159.20	159.50	0.30	40	-0.1		880									24												1		1								92
84-6	5606E	170.50	172.50	2.00	30	-0.1		3200									16												1		1								58
84-6	5607E	182.90	184.70	1.80	20	0.2		100									16												2		1								54
84-6	5608E	197.10	198.60	1.50	40	-0.1		1250									44												14		1								12
84-7	5609E	20.50	22.50	2.00	25	-0.1		2300									16												4		1								38
84-7	5610E	22.50	24.50	2.00	30	-0.1		1400									14												3		1								34
84-7	5611E	24.50	26.50	2.00	40	-0.1		2100									16												2		1								36
84-7	5612E	26.50	28.50	2.00	25	-0.1		640									12												1		1								40
84-7	5616E	31.30	32.30	1.00	2100	28		4600									1550												4		24								54
84-7	5617E	32.30	35.20	2.90	270	1.1		3200									102												9		1								30
84-7	5618E	39.90	41.90	2.00	430	0.1		3900									16												2		1								32
84-7	5619E	65.80	66.10	0.30	21100	0.8		5000									98												15		2								38
84-7	5620E	72.80	73.10	0.30	1600	0.1		5000									24												1		1								26
84-7	5621E	91.10	93.10	2.00	1500	-0.1		5000									14												1		1								40
84-7	5622E	93.10	95.10	2.00	180	0.1		2600									14												1		1								56
84-7	5623E	95.10	97.10	2.00	1600	0.4		3100									44												1		1								46
84-7	5624E	97.10	99.10	2.00	940	0.2		5000									52												1		1								42
84-7	5625E	102.30	104.30	2.00	5000	0.5		4600									52												1		1								36
84-7	5626E	111.80	113.30	1.50	15500	0.3		5000									18												1		1								40
84-7	5627E	113.30	114.90	1.60	520	0.2		4400									12												1		1								42
84-7	5628E	115.40	117.20	1.80	380	0.2		5000									22												1		1								48
84-7	5629E	121.50	123.00	1.50	160	0.2		2350									20												1		1								96
84-7	5630E	125.20	127.20	2.00	660	0.2		490									22												3		1								50
84-7	5631E	127.20	129.20	2.00	6500	0.2		4500									22												26		1								45
84-7	5632E	143.30	144.50	1.20	-5	-0.1		30									26												1		1								110
84-7	5633E	154.20	156.20	2.00	-5	0.1		40									40												1		1								82
84-7	5634E	156.20	158.20	2.00	10	0.5		40									118												1		1								68
84-7	5635E	158.20	160.30	2.10	20	0.4		30									42												1		1								44
84-8	5636E	9.70	11.90	2.20	230	1.2		2500									46												270		1								1900
84-8	5637E	11.90	13.90	2.00	640	0.1		2400									22												14		1								108
84-8	5638E	13.90	16.10	2.20	390	0.1		5000									28												10		1								66
84-8	5639E	16.10	18.20	2.10	1900	0.4		3900									68												8		1								70
84-8	5640E	29.00	31.90	2.90	530	0.1		3300									22												3		1								70
84-8	5641E	31.90	33.90	2.00	24800	0.1		3000									24												4		1								70
84-8	5642E	33.90	36.10	2.20	2350	0.1		2350									22												3		1								88
84-8	5643E	36.10	38.00	1.90	40	0.1		50									18												1		1								56
84-8	5647E	46.30	48.20	1.90	120	1.1		2750									26												7		1								58
84-8	5648E	48.20	50.60	2.40	4500	3		5000									36												142		2								1220
84-8	5649E	50.60	52.60	2.00	80	0.3		720									40												1		1								60
84-8	5650E	61.70	63.70	2.00	40	-0.1		170									14												1		1								118
84-8	5651E	63.70	65.70	2.00	2900	0.1		2050									16												1		1								96
84-8	5652E	65.70	67.80	2.10	80	-0.1		290									14												1		1								90
84-8	5653E	71.50	71.90	0.40	550	-0.1		370									22												1		1								52
84-8	5654E	72.50	72.80	0.30	40	0.1		500									20												1		1								54
84-8	5655E	84.10	85.00	0.90	360	0.2		4700									10												51		1								50
84-8	5656E	110.00	112.60	2.60	10	-0.1		40									12												2		1								66
84-8	5657E	163.30	163.80	0.50	40	-0.1		130									10												2		1								52
84-8	5658E	168.00	169.40	1.40	2200	-0.1		1600									6												1		1								72
84-8	5659E	179.30	180.00	0.70	10	-0.1		30									4												1		1								62
84-8	5660E	183.50	185.00	1.50	10	-0.1		30									4												1		1								58
84-8	5661E	185.00	186.90	1.90	-5	-0.1		20									6												1		1								60
84-9	5662E	18.90	20.90	2.00	-5	-0.1		220									30												1		1								66
84-9	5663E	20.90	22.90	2.00	5	-0.1		130									20												1		1								32
84-9	5664E	22.90	24.90	2.00	10	-0.1		140									52												1		1								30
84-9	5665E	24.90	26.90	2.00	20	-0.1		290									26												1		1								52
84-9	5666E	26.90	28.90	2.00	-5	-0.1		80									20												9		1								26
84-9	5667E	28.90	30.90	2.00	20	-0.1		90									26												1		1								36
84-9	5668E	30.90	32.90	2.00	20	-0.1		60									28												1		1								52
84-9	5669E	32.90	34.90	2.00	5	-0.1		30									40												1		1								52
84-9	5670E	34.90	36.90	2.00	30	-0.1		170									40												1		1								56
84-9	5671E	36.90	38.90	2.00	250	-0.1		470									40												1		1								38

Hole	Sample Number	From (m)	To (m)	Length (m)	Au (ppb)	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 (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
84-9	5672E	38.90	40.90	2.00	20	-0.1		240									44												1		1								26
84-9	5685E	40.90	42.90	2.00	70	0.3		570									22												18		1								26
84-9	5686E	42.90	44.90	2.00	410	0.2		5000									26												8		1								24
84-9	5687E	44.90	46.90	2.00	640	-0.1		5000									20												5		1								40
84-9	5688E	46.90	48.90	2.00	110	-0.1		340									32												3		1								72
84-9	5689E	48.90	50.90	2.00	290	0.1		1700									152												4		1								34
84-9	5690E	50.90	52.90	2.00	80	0.2		760									30												11		1								72
84-9	5691E	52.90	54.90	2.00	30	-0.1		1100									18												12		1								82
84-9	5692E	54.90	56.90	2.00	20	0.1		510									44												12		1								84
84-9	5693E	79.60	81.60	2.00	20	0.1		580									76												5		1								48
84-9	5694E	81.60	83.60	2.00	-5	-0.1		40									122												2		1								40
84-9	5695E	83.60	85.60	2.00	450	1.1		4800									68												26		1								44
84-9	5696E	85.60	87.60	2.00	-5	-0.1		40									120												1		1								28
84-9	5697E	87.60	89.60	2.00	840	1.7		4300									50												310		1								72
84-9	5698E	89.60	91.10	1.50	10	0.2		230									38												12		1								64
84-9	5699E	91.10	93.30	2.20	960	0.2		5000									44												21		1								96
84-9	5450E	93.30	95.90	2.60	120	0.5		2100									120												17		1								60
84-9	5451E	96.80	98.80	2.00	-5	-0.1		80									12												7		1								78
84-9	5452E	98.80	100.80	2.00	740	0.2		5000									66												16		1								76
84-9	5453E	100.80	102.80	2.00	30	-0.1		10									2												2		1								50
84-9	5454E	104.60	107.00	2.40	5	-0.1		10									50												1		1								42
84-9	5455E	108.20	108.50	0.30	10	-0.1		10									126												1		1								38
84-9	5456E	111.60	113.60	2.00	210	0.1		2250									6												8		1								62
84-9	5457E	113.60	115.60	2.00	1900	0.9		5000									34												52		3								66
84-9	5458E	115.60	117.60	2.00	220	-0.1		2000									6												12		1								70
84-9	5459E	117.60	119.60	2.00	160	-0.1		1550									4												2		1								62
84-9	5460E	119.60	121.60	2.00	40	-0.1		480									10												8		1								78
84-9	5461E	121.60	123.60	2.00	10	-0.1		530									4												3		1								80
84-9	5462E	123.60	125.50	1.90	10	-0.1		130									4												1		1								80
84-9	5463E	125.50	127.00	1.50	20	-0.1		80									4												1		1								46
84-9	5464E	131.60	133.60	2.00	170	-0.1		110									4												1		1								74
84-9	5465E	142.10	144.50	2.40	-5	-0.1		10									8												2		1								46
84-9	5466E	145.80	148.60	2.80	-5	-0.1		10									58												13		1								54
84-9	5467E	148.60	150.60	2.00	-5	-0.1		10									6												1		1								88
84-9	5468E	150.60	152.60	2.00	5	-0.1		100									8												2		1								94
84-9	5469E	152.60	154.60	2.00	2050	0.8		5000									40												37		1								46
84-9	5470E	154.60	156.60	2.00	280	0.3		380									116												12		1								64
84-9	5471E	156.60	158.60	2.00	10	-0.1		20									370												3		1								46
84-9	5472E	158.60	159.80	1.20	15	-0.1		10									148												2		1								42

APPENDIX E.1

CERTIFICATES OF ANALYSIS

SILT AND SOIL SAMPLES

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

A0120658

Comments: ATTN: STEWART HARRIS

CERTIFICATE A0120658

(EIA) - EQUITY ENGINEERING LTD.

Project: BILL
P.O. # : RFM01-11

Samples submitted to our lab in Vancouver, BC.
This report was printed on 25-JUL-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
201	88	Dry, sieve to -80 mesh
202	88	save reject
229	88	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

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-AA23	87	Au-AA23 : Au ppb: Fuse 30 grams	FA-AAS	5	10000
Ag-ICP41	88	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
Al-ICP41	88	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
As-ICP41	88	As ppm: 32 element, soil & rock	ICP-AES	2	10000
B-ICP41	88	B ppm: 32 element, rock & soil	ICP-AES	10	10000
Ba-ICP41	88	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
Be-ICP41	88	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
Bi-ICP41	88	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
Ca-ICP41	88	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
Cd-ICP41	88	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
Co-ICP41	88	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
Cr-ICP41	88	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
Cu-ICP41	88	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
Fe-ICP41	88	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
Ga-ICP41	88	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
Hg-ICP41	88	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
K-ICP41	88	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
La-ICP41	88	La ppm: 32 element, soil & rock	ICP-AES	10	10000
Mg-ICP41	88	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
Mn-ICP41	88	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
Mo-ICP41	88	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
Na-ICP41	88	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
Ni-ICP41	88	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
P-ICP41	88	P ppm: 32 element, soil & rock	ICP-AES	10	10000
Pb-ICP41	88	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
S-ICP41	88	S %: 32 element, rock & soil	ICP-AES	0.01	10.00
Sb-ICP41	88	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
Sc-ICP41	88	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
Sr-ICP41	88	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
Ti-ICP41	88	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
Tl-ICP41	88	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
U-ICP41	88	U ppm: 32 element, soil & rock	ICP-AES	10	10000
V-ICP41	88	V ppm: 32 element, soil & rock	ICP-AES	1	10000
W-ICP41	88	W ppm: 32 element, soil & rock	ICP-AES	10	10000
Zn-ICP41	88	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

ALS Chemex

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[illegible]: EQUITY ENGINEERING LTD.

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V6C 1G8

Project : BILL
Comments: ATTN: STEWART HARRIS

Certificate Date: 24-JUL-2001
Invoice No. : I0120658
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0120658

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 %
01HASS-01	201	202	35	< 0.2	1.65	384	< 10	180	< 0.5	< 2	0.41	< 0.5	23	44	73	4.09	< 10	< 1	0.03	< 10	1.37
01HASS-02	201	202	20	< 0.2	1.56	214	< 10	140	< 0.5	< 2	0.52	< 0.5	18	34	54	3.53	< 10	< 1	0.05	< 10	1.12
01HASS-03	201	202	160	< 0.2	1.58	178	< 10	130	< 0.5	< 2	0.50	< 0.5	16	27	71	3.67	< 10	< 1	0.07	< 10	1.11
01HASS-04	201	202	< 5	< 0.2	2.14	4	< 10	370	0.5	< 2	0.58	0.5	10	27	68	3.27	< 10	< 1	0.26	10	1.62
01HASS-05	201	202	< 5	< 0.2	2.17	16	< 10	270	< 0.5	< 2	0.58	< 0.5	18	50	70	3.98	< 10	< 1	0.14	< 10	1.80
01HASS-06	201	202	< 5	< 0.2	1.62	82	< 10	180	< 0.5	< 2	0.86	< 0.5	13	31	69	3.20	< 10	< 1	0.06	< 10	0.82
01HASS-07	201	202	< 5	< 0.2	1.48	12	< 10	110	< 0.5	< 2	0.43	< 0.5	13	30	40	2.84	< 10	< 1	0.05	< 10	0.74
01HASL-01	201	202	245	< 0.2	2.39	308	< 10	90	< 0.5	< 2	0.03	< 0.5	6	36	27	3.18	< 10	< 1	0.04	< 10	0.61
01HASL-02	201	202	95	0.2	1.78	1140	< 10	320	0.5	< 2	0.37	< 0.5	16	26	80	4.88	< 10	< 1	0.04	10	0.67
01HASL-03	201	202	not/ss	0.2	2.10	630	< 10	280	0.5	< 2	0.73	< 0.5	11	30	64	4.49	< 10	< 1	0.06	10	0.78
01HASL-04	201	202	65	< 0.2	1.45	1230	< 10	180	0.5	< 2	0.53	< 0.5	10	23	91	4.69	< 10	< 1	0.04	< 10	0.58
01HASL-05	201	202	20	< 0.2	1.72	88	< 10	160	0.5	< 2	0.45	< 0.5	10	35	32	3.06	< 10	< 1	0.05	< 10	0.61
01HASL-05D	201	202	10	< 0.2	1.75	74	< 10	150	0.5	< 2	0.43	< 0.5	10	35	29	2.96	< 10	< 1	0.05	< 10	0.61
01HASL-06	201	202	< 10	0.8	2.07	102	< 10	380	0.5	< 2	1.69	< 0.5	5	29	39	2.59	< 10	< 1	0.08	10	0.58
01HASL-07	201	202	10	< 0.2	2.18	88	< 10	100	0.5	< 2	0.12	< 0.5	13	31	49	4.19	< 10	< 1	0.08	< 10	0.74
01HASL-08	201	202	10	< 0.2	1.89	140	< 10	210	0.5	< 2	0.44	< 0.5	12	21	71	4.04	< 10	< 1	0.09	10	0.81
01HASL-09	201	202	20	< 0.2	1.38	104	< 10	110	0.5	< 2	0.61	< 0.5	12	16	89	4.30	< 10	< 1	0.12	10	0.66
01HASL-10	201	202	25	< 0.2	2.11	144	< 10	160	0.5	< 2	0.47	< 0.5	12	24	62	4.13	< 10	< 1	0.09	10	1.01
01HASL-11	201	202	50	< 0.2	1.95	336	< 10	140	0.5	< 2	0.49	< 0.5	16	27	99	4.72	< 10	< 1	0.12	10	1.10
01HASL-12	201	202	55	< 0.2	2.41	374	< 10	150	0.5	< 2	0.32	< 0.5	18	30	109	5.31	< 10	< 1	0.13	10	1.28
01HASL-13	201	202	40	< 0.2	2.45	270	< 10	140	0.5	< 2	0.16	< 0.5	14	28	81	4.51	< 10	< 1	0.12	10	1.13
01HASL-14	201	202	75	< 0.2	2.14	188	< 10	90	< 0.5	< 2	0.36	< 0.5	17	27	108	4.14	< 10	< 1	0.12	10	1.29
01HASL-15	201	202	< 5	0.2	1.89	36	< 10	160	< 0.5	2	0.05	< 0.5	6	29	27	2.25	< 10	< 1	0.05	< 10	0.35
01HASL-16	201	202	25	< 0.2	1.91	122	< 10	70	< 0.5	< 2	0.38	< 0.5	13	23	83	3.49	< 10	< 1	0.09	< 10	1.16
01HASL-17	201	202	155	< 0.2	1.65	262	< 10	80	0.5	< 2	0.41	< 0.5	17	24	126	4.81	< 10	< 1	0.11	10	0.86
01HASL-18	201	202	40	< 0.2	2.13	162	< 10	80	< 0.5	< 2	0.42	< 0.5	16	28	115	4.25	< 10	< 1	0.10	10	1.25
01HASL-18D	201	202	25	< 0.2	2.01	154	< 10	70	< 0.5	< 2	0.39	< 0.5	15	27	110	4.00	< 10	< 1	0.10	10	1.19
01HASL-19	201	202	15	< 0.2	2.65	52	< 10	60	< 0.5	< 2	0.31	< 0.5	15	22	54	3.91	< 10	< 1	0.14	< 10	1.60
01HASL-20	201	202	110	< 0.2	1.97	302	< 10	100	< 0.5	< 2	0.52	< 0.5	15	30	82	3.58	< 10	< 1	0.08	< 10	1.18
01HASL-21	201	202	50	< 0.2	2.17	156	< 10	100	< 0.5	< 2	0.29	< 0.5	12	25	52	3.99	< 10	< 1	0.09	< 10	1.15
01HASL-22	201	202	150	< 0.2	2.86	804	< 10	120	0.5	< 2	0.55	< 0.5	25	24	190	7.30	< 10	< 1	0.43	10	1.82
01HASL-23	201	202	70	< 0.2	1.75	232	< 10	130	0.5	< 2	0.61	< 0.5	19	16	147	5.97	< 10	< 1	0.26	10	0.93
01HASL-24	201	202	30	< 0.2	2.22	148	< 10	100	< 0.5	< 2	0.38	< 0.5	14	16	94	4.52	< 10	< 1	0.08	10	1.38
01HASL-25	201	202	80	< 0.2	2.07	614	< 10	170	0.5	< 2	0.40	< 0.5	15	22	57	5.57	< 10	< 1	0.07	< 10	0.55
01HASL-26	201	202	505	0.2	1.30	838	< 10	220	0.5	< 2	0.03	< 0.5	11	15	28	6.23	< 10	< 1	0.18	< 10	0.18
01HASL-27	201	202	10	< 0.2	0.97	54	< 10	130	< 0.5	< 2	0.01	< 0.5	3	12	12	1.66	< 10	< 1	0.05	< 10	0.07
01HASL-28	201	202	145	< 0.2	1.31	626	< 10	130	0.5	< 2	0.09	< 0.5	22	13	60	8.14	< 10	< 1	0.11	< 10	0.19
01HASL-29	201	202	180	< 0.2	1.44	176	< 10	100	0.5	< 2	0.08	< 0.5	14	10	83	5.96	< 10	< 1	0.08	10	0.26
01HASL-30	201	202	50	< 0.2	1.47	150	< 10	100	< 0.5	< 2	0.20	< 0.5	8	11	41	3.58	< 10	< 1	0.06	< 10	0.63
01HASL-31	201	202	205	< 0.2	1.99	144	< 10	50	< 0.5	< 2	0.17	< 0.5	11	23	58	4.02	< 10	< 1	0.06	< 10	1.07

CERTIFICATION: ________________

ALS Chemex

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CERTIFICATE OF ANALYSIS A0120658

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
01HASS-01	201	202	1445	< 1	< 0.01	49	780	20	0.03	4	7	15	0.01	< 10	< 10	31	< 10	70
01HASS-02	201	202	1055	< 1	< 0.01	47	1130	20	0.04	4	5	25	0.01	< 10	< 10	34	< 10	86
01HASS-03	201	202	805	1	< 0.01	39	1270	14	0.05	8	4	30	0.02	< 10	< 10	31	< 10	84
01HASS-04	201	202	835	1	< 0.01	18	790	20	0.08	< 2	6	25	0.04	< 10	< 10	33	< 10	268
01HASS-05	201	202	1380	1	< 0.01	34	1000	14	0.08	4	7	27	0.04	< 10	< 10	61	< 10	184
01HASS-06	201	202	640	1	0.01	35	1070	12	0.11	4	4	51	0.01	< 10	< 10	33	< 10	90
01HASS-07	201	202	525	1	< 0.01	39	860	6	0.03	2	3	30	0.01	< 10	< 10	36	< 10	68
01HASL-01	201	202	365	1	< 0.01	24	1080	6	0.05	4	1	6	0.01	< 10	< 10	41	< 10	62
01HASL-02	201	202	1575	1	< 0.01	27	1180	18	0.05	6	7	23	< 0.01	< 10	< 10	38	< 10	78
01HASL-03	201	202	390	1	< 0.01	33	1050	12	0.12	6	6	37	< 0.01	< 10	< 10	43	< 10	84
01HASL-04	201	202	440	1	< 0.01	27	920	14	0.07	6	5	24	< 0.01	< 10	< 10	40	< 10	78
01HASL-05	201	202	295	1	< 0.01	43	860	6	0.05	2	4	21	< 0.01	< 10	< 10	37	< 10	72
01HASL-05D	201	202	480	1	0.01	43	780	6	0.04	2	3	20	< 0.01	< 10	< 10	37	< 10	66
01HASL-06	201	202	335	1	0.01	26	3220	2	0.31	2	4	67	0.01	< 10	< 10	32	< 10	96
01HASL-07	201	202	715	1	< 0.01	30	1250	4	0.04	2	1	11	0.01	< 10	< 10	42	< 10	70
01HASL-08	201	202	520	1	< 0.01	22	1330	4	0.04	2	3	27	0.01	< 10	< 10	38	< 10	78
01HASL-09	201	202	420	2	< 0.01	18	1370	6	0.04	2	4	28	0.01	< 10	< 10	35	< 10	70
01HASL-10	201	202	505	1	< 0.01	21	1590	2	0.03	2	3	28	0.01	< 10	< 10	43	< 10	72
01HASL-11	201	202	745	1	< 0.01	21	1960	< 2	0.03	2	4	33	0.03	< 10	< 10	47	< 10	58
01HASL-12	201	202	840	1	< 0.01	23	1390	4	0.04	4	5	27	0.01	< 10	< 10	54	< 10	66
01HASL-13	201	202	650	1	< 0.01	19	1610	2	0.06	4	2	20	0.02	< 10	< 10	48	< 10	60
01HASL-14	201	202	820	< 1	< 0.01	21	1780	2	0.03	2	3	31	0.03	< 10	< 10	42	< 10	58
01HASL-15	201	202	555	2	< 0.01	19	1360	4	0.09	2	< 1	15	< 0.01	< 10	< 10	40	< 10	42
01HASL-16	201	202	485	1	< 0.01	19	1920	< 2	0.03	2	2	29	0.03	< 10	< 10	38	< 10	54
01HASL-17	201	202	900	2	< 0.01	27	2000	8	0.05	4	1	27	0.02	< 10	< 10	45	< 10	80
01HASL-18	201	202	740	1	< 0.01	21	2140	< 2	0.03	2	4	27	0.03	< 10	< 10	48	< 10	58
01HASL-18D	201	202	710	1	< 0.01	20	2060	2	0.03	6	4	25	0.03	< 10	< 10	45	< 10	58
01HASL-19	201	202	530	1	< 0.01	17	1390	< 2	0.03	2	1	24	0.07	< 10	< 10	48	< 10	68
01HASL-20	201	202	570	1	< 0.01	27	1630	< 2	0.03	6	2	32	0.03	< 10	< 10	38	< 10	52
01HASL-21	201	202	655	1	< 0.01	17	1430	2	0.05	< 2	1	25	0.03	< 10	< 10	63	< 10	56
01HASL-22	201	202	1350	3	0.02	21	1720	4	0.15	6	8	60	0.05	< 10	< 10	109	< 10	76
01HASL-23	201	202	1040	1	0.01	18	2660	2	0.06	2	8	38	0.05	< 10	< 10	89	< 10	70
01HASL-24	201	202	535	< 1	< 0.01	14	1610	< 2	0.03	2	4	23	0.03	< 10	< 10	78	< 10	60
01HASL-25	201	202	545	1	0.01	29	1010	6	0.09	4	2	35	0.01	< 10	< 10	37	< 10	40
01HASL-26	201	202	435	1	0.05	13	1580	8	0.47	4	1	66	< 0.01	< 10	< 10	24	< 10	24
01HASL-27	201	202	130	1	< 0.01	7	840	4	0.05	< 2	< 1	8	< 0.01	< 10	< 10	33	< 10	26
01HASL-28	201	202	1085	3	0.07	18	2800	12	0.37	4	5	46	< 0.01	< 10	< 10	34	< 10	50
01HASL-29	201	202	545	1	0.01	14	1770	4	0.09	2	2	13	< 0.01	< 10	< 10	44	< 10	50
01HASL-30	201	202	495	1	< 0.01	11	1640	4	0.04	2	< 1	18	0.01	< 10	< 10	32	< 10	54
01HASL-31	201	202	365	1	< 0.01	19	1570	6	0.04	< 2	1	16	0.02	< 10	< 10	47	< 10	54

CERTIFICATION:

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 : BILL
Comments: ATTN: STEWART HARRIS

Certificate Date: 24-JUL-2001
Invoice No. : I0120658
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0120658

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 %
01HASL-32	201	202	70	< 0.2	2.25	78	< 10	40	< 0.5	< 2	0.23	< 0.5	14	38	43	3.94	< 10	< 1	0.05	< 10	1.56
01HASL-33	201	202	10	< 0.2	2.53	56	< 10	50	< 0.5	< 2	0.19	< 0.5	16	52	44	3.94	< 10	< 1	0.05	< 10	1.74
01HASL-34	201	202	10	0.6	1.97	28	< 10	50	< 0.5	< 2	0.19	< 0.5	12	44	26	2.98	< 10	< 1	0.03	< 10	1.27
01HASL-35	201	202	30	< 0.2	0.59	444	< 10	80	< 0.5	2	0.83	< 0.5	12	5	157	4.78	< 10	< 1	0.04	< 10	0.16
01HASL-36	201	202	85	< 0.2	0.35	214	< 10	80	< 0.5	< 2	0.34	< 0.5	19	4	112	5.88	< 10	< 1	0.06	10	0.10
01HASL-37	201	202	40	< 0.2	1.40	184	< 10	200	0.5	< 2	0.51	< 0.5	13	22	88	5.58	< 10	< 1	0.09	10	0.63
01HASL-38	201	202	75	< 0.2	0.86	178	< 10	220	0.5	< 2	0.90	< 0.5	19	6	207	6.93	< 10	< 1	0.18	20	0.32
01HASL-39	201	202	140	< 0.2	1.30	324	< 10	140	0.5	< 2	0.71	< 0.5	13	10	191	5.28	< 10	< 1	0.16	10	0.67
01HASL-40	201	202	930	< 0.2	1.49	404	< 10	120	< 0.5	2	0.89	< 0.5	19	14	146	5.48	< 10	< 1	0.20	10	0.95
01HASL-41	201	202	145	< 0.2	1.41	528	< 10	150	0.5	< 2	0.55	< 0.5	28	22	173	7.30	< 10	< 1	0.12	10	0.74
01HASL-42	201	202	185	< 0.2	2.79	378	< 10	170	0.5	< 2	0.52	< 0.5	25	33	255	6.79	< 10	< 1	0.13	10	1.43
01HASL-42D	201	202	295	< 0.2	2.93	436	< 10	200	0.5	< 2	0.50	< 0.5	29	36	253	7.47	< 10	< 1	0.16	10	1.42
01HASL-43	201	202	10	< 0.2	1.91	50	< 10	50	< 0.5	< 2	0.45	< 0.5	17	29	91	3.08	< 10	< 1	0.16	10	1.49
01HASL-44	201	202	50	< 0.2	1.98	1350	< 10	240	0.5	< 2	0.50	< 0.5	15	27	126	5.28	< 10	< 1	0.10	< 10	0.83
01HASL-45	201	202	60	0.2	0.33	408	< 10	50	< 0.5	< 2	0.82	< 0.5	17	4	141	6.14	< 10	< 1	0.04	< 10	0.16
01HASL-46	201	202	40	< 0.2	2.70	90	< 10	60	0.5	< 2	0.18	< 0.5	54	20	188	6.21	< 10	< 1	0.04	10	1.22
01HASL-47	201	202	< 5	0.2	1.36	12	< 10	60	< 0.5	< 2	0.04	< 0.5	4	12	11	1.68	< 10	< 1	0.04	< 10	0.51
01HASL-48	201	202	< 5	< 0.2	2.23	22	< 10	60	< 0.5	< 2	0.07	< 0.5	8	20	29	4.48	< 10	< 1	0.03	< 10	0.92
01HASL-49	201	202	10	< 0.2	1.75	10	< 10	80	< 0.5	< 2	0.12	< 0.5	6	13	21	2.49	< 10	< 1	0.03	< 10	0.73
01HASL-50	201	202	5	< 0.2	2.21	16	< 10	80	< 0.5	< 2	0.16	< 0.5	13	15	63	4.27	< 10	< 1	0.05	< 10	1.38
01HASL-51	201	202	< 10	< 0.2	1.68	22	< 10	280	< 0.5	< 2	0.31	< 0.5	8	12	47	3.77	< 10	< 1	0.05	< 10	0.78
01HASL-51D	201	202	10	< 0.2	1.84	20	< 10	240	< 0.5	< 2	0.24	< 0.5	7	13	41	3.87	< 10	< 1	0.04	< 10	0.95
01HASL-52	201	202	5	< 0.2	1.59	14	< 10	170	< 0.5	< 2	0.44	< 0.5	9	11	48	3.46	< 10	< 1	0.05	< 10	0.81
01HASL-53	201	202	< 5	< 0.2	1.69	18	< 10	210	< 0.5	< 2	0.51	< 0.5	10	43	17	3.72	< 10	< 1	0.04	< 10	0.72
01HASL-54	201	202	15	0.2	1.26	32	< 10	70	< 0.5	< 2	0.04	< 0.5	4	19	14	2.40	< 10	< 1	0.03	< 10	0.28
01HASL-55	201	202	10	0.2	2.28	12	< 10	80	< 0.5	< 2	0.07	< 0.5	7	42	18	3.03	< 10	< 1	0.02	< 10	0.62
01HASL-56	201	202	< 5	0.2	1.64	10	< 10	90	< 0.5	< 2	0.05	< 0.5	3	46	10	3.98	10	< 1	0.04	< 10	0.29
01HASL-57	201	202	< 5	1.2	1.29	8	< 10	80	< 0.5	< 2	0.03	< 0.5	2	16	8	1.00	< 10	< 1	0.03	< 10	0.21
01HASL-58	201	202	5	0.2	1.39	44	< 10	60	< 0.5	< 2	0.03	< 0.5	6	24	15	3.42	< 10	< 1	0.04	< 10	0.55
01HASL-59	201	202	20	< 0.2	2.09	50	< 10	70	< 0.5	< 2	0.08	< 0.5	8	26	22	3.57	< 10	< 1	0.08	< 10	0.94
01HASL-60	201	202	35	< 0.2	2.00	34	< 10	50	< 0.5	< 2	0.12	< 0.5	8	18	24	3.99	< 10	< 1	0.06	< 10	1.19
01HASL-61	201	202	10	< 0.2	1.69	14	< 10	230	< 0.5	< 2	0.45	< 0.5	7	19	26	3.37	< 10	< 1	0.04	< 10	0.83
01HASL-62	201	202	25	< 0.2	2.05	44	< 10	280	0.5	< 2	0.60	< 0.5	11	24	64	4.37	< 10	< 1	0.06	10	1.05
01HASL-63	201	202	< 5	< 0.2	2.20	26	< 10	340	0.5	< 2	1.33	< 0.5	7	23	61	3.38	< 10	< 1	0.06	10	0.88
01HASL-64	201	202	15	< 0.2	1.83	34	< 10	130	< 0.5	< 2	0.41	< 0.5	9	23	18	3.87	< 10	< 1	0.04	< 10	1.06
01HASL-65	201	202	< 5	< 0.2	2.04	54	< 10	310	0.5	< 2	0.53	< 0.5	9	25	37	4.11	< 10	< 1	0.05	< 10	0.90
01HASL-66	201	202	5	< 0.2	2.40	34	< 10	140	< 0.5	< 2	0.16	< 0.5	7	24	30	3.50	< 10	< 1	0.03	< 10	1.08
01HASL-67	201	202	160	< 0.2	2.12	170	< 10	70	< 0.5	< 2	0.17	< 0.5	10	16	40	4.09	< 10	< 1	0.03	< 10	0.92
01HASL-68	201	202	60	< 0.2	1.80	40	< 10	420	< 0.5	< 2	0.52	< 0.5	6	12	31	2.52	< 10	< 1	0.03	< 10	0.75
01HASL-69	201	202	55	< 0.2	1.71	74	< 10	130	< 0.5	< 2	0.35	< 0.5	20	12	115	4.18	< 10	< 1	0.05	10	1.20

CERTIFICATION: ____________

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 : BILL
Comments: ATTN: STEWART HARRIS

Certificate Date: 24-JUL-2001
Invoice No. : I0120658
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0120658

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
01HASL-32	201	202	440	1	< 0.01	30	1290	6	0.01	2	2	16	0.03	< 10	< 10	46	< 10	72
01HASL-33	201	202	410	1	< 0.01	37	1150	2	0.02	6	3	10	0.02	< 10	< 10	45	< 10	64
01HASL-34	201	202	205	1	< 0.01	29	1160	< 2	0.02	< 2	1	8	0.01	< 10	< 10	35	< 10	44
01HASL-35	201	202	865	1	< 0.01	12	1340	12	0.07	2	3	33	< 0.01	< 10	< 10	19	< 10	72
01HASL-36	201	202	860	2	< 0.01	16	1570	14	0.04	< 2	4	25	< 0.01	< 10	< 10	21	< 10	70
01HASL-37	201	202	625	1	0.01	16	1960	6	0.09	< 2	4	40	0.01	< 10	< 10	58	< 10	50
01HASL-38	201	202	2300	3	< 0.01	10	3440	8	0.09	< 2	3	74	0.02	< 10	< 10	26	< 10	88
01HASL-39	201	202	635	1	0.02	12	2590	2	0.17	2	7	59	0.01	< 10	< 10	56	< 10	58
01HASL-40	201	202	875	< 1	0.04	14	3620	2	0.29	2	8	97	0.03	< 10	< 10	65	< 10	58
01HASL-41	201	202	1695	< 1	0.04	28	1850	6	0.23	4	11	61	0.01	< 10	< 10	61	< 10	62
01HASL-42	201	202	1445	2	0.05	28	1180	6	0.31	2	12	123	< 0.01	< 10	< 10	62	< 10	46
01HASL-42D	201	202	1475	2	0.08	31	1220	6	0.47	6	12	162	< 0.01	< 10	< 10	63	< 10	48
01HASL-43	201	202	650	< 1	< 0.01	21	1240	< 2	0.04	6	1	27	0.04	< 10	< 10	36	< 10	54
01HASL-44	201	202	985	1	0.04	18	1510	4	0.30	2	2	52	0.01	< 10	< 10	37	< 10	44
01HASL-45	201	202	985	3	< 0.01	17	1420	14	0.08	8	4	33	< 0.01	< 10	< 10	24	< 10	92
01HASL-46	201	202	2030	4	< 0.01	50	1920	26	0.05	4	7	12	0.01	< 10	< 10	44	< 10	194
01HASL-47	201	202	135	< 1	< 0.01	6	890	8	0.03	2	< 1	7	< 0.01	< 10	< 10	27	< 10	26
01HASL-48	201	202	295	3	< 0.01	14	660	6	0.01	6	1	7	0.03	< 10	< 10	50	< 10	50
01HASL-49	201	202	195	1	< 0.01	10	830	4	0.01	2	1	10	0.01	< 10	< 10	31	< 10	42
01HASL-50	201	202	520	1	< 0.01	15	1000	2	< 0.01	4	3	11	0.01	< 10	< 10	39	< 10	68
01HASL-51	201	202	495	2	< 0.01	15	2410	8	0.09	< 2	4	17	< 0.01	< 10	< 10	36	< 10	98
01HASL-51D	201	202	325	3	< 0.01	14	1460	6	0.04	2	3	13	< 0.01	< 10	< 10	39	< 10	106
01HASL-52	201	202	540	3	< 0.01	12	1590	6	0.04	4	3	20	< 0.01	< 10	< 10	28	< 10	88
01HASL-53	201	202	350	3	< 0.01	42	550	10	0.03	2	2	42	0.10	< 10	< 10	54	< 10	92
01HASL-54	201	202	245	1	< 0.01	12	640	6	0.04	< 2	< 1	9	0.01	< 10	< 10	40	< 10	28
01HASL-55	201	202	305	1	< 0.01	46	510	6	0.01	4	3	9	0.01	< 10	< 10	37	< 10	58
01HASL-56	201	202	300	1	0.01	19	580	12	0.07	< 2	1	8	0.17	< 10	< 10	62	< 10	54
01HASL-57	201	202	80	1	< 0.01	7	910	4	0.03	< 2	< 1	10	< 0.01	< 10	< 10	21	< 10	18
01HASL-58	201	202	345	< 1	< 0.01	13	760	4	0.03	2	1	7	0.03	< 10	< 10	60	< 10	42
01HASL-59	201	202	365	1	< 0.01	22	510	2	< 0.01	2	3	7	0.04	< 10	< 10	37	< 10	64
01HASL-60	201	202	335	1	< 0.01	11	720	< 2	< 0.01	4	3	7	0.02	< 10	< 10	30	< 10	60
01HASL-61	201	202	260	2	< 0.01	18	1350	2	0.05	2	4	27	0.01	< 10	< 10	28	< 10	118
01HASL-62	201	202	570	2	0.01	29	860	6	0.06	4	4	39	0.05	< 10	< 10	37	< 10	76
01HASL-63	201	202	415	2	< 0.01	17	2150	4	0.19	4	7	73	0.02	< 10	< 10	29	< 10	100
01HASL-64	201	202	445	1	< 0.01	18	710	2	0.03	2	3	16	0.03	< 10	< 10	36	< 10	110
01HASL-65	201	202	900	1	< 0.01	26	1520	6	0.05	2	4	27	< 0.01	< 10	< 10	35	< 10	112
01HASL-66	201	202	270	1	< 0.01	19	1140	2	0.03	4	4	11	< 0.01	< 10	< 10	40	< 10	78
01HASL-67	201	202	440	1	< 0.01	18	1070	6	0.01	4	3	8	< 0.01	< 10	< 10	29	< 10	68
01HASL-68	201	202	270	1	< 0.01	9	1460	6	0.05	2	1	25	< 0.01	< 10	< 10	31	< 10	34
01HASL-69	201	202	990	1	< 0.01	19	1430	4	0.01	< 2	5	19	0.01	< 10	< 10	34	< 10	78

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CERTIFICATE OF ANALYSIS A0120658

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 %
01HASL-70	201	202	10	0.2	1.49	118	< 10	140	< 0.5	< 2	0.23	< 0.5	15	10	139	4.40	< 10	< 1	0.04	< 10	0.87
01HASL-71	201	202	15	< 0.2	1.41	38	< 10	60	< 0.5	< 2	0.32	< 0.5	20	12	140	5.30	< 10	< 1	0.03	10	0.94
01HASL-72	201	202	25	< 0.2	1.49	30	< 10	90	< 0.5	< 2	0.33	< 0.5	16	10	110	4.67	< 10	< 1	0.04	10	0.94
01HASL-73	201	202	40	< 0.2	1.75	16	< 10	90	< 0.5	< 2	0.24	< 0.5	11	11	75	3.58	< 10	< 1	0.04	< 10	1.08
01HASL-74	201	202	15	< 0.2	1.91	10	< 10	60	< 0.5	2	0.15	< 0.5	9	11	52	2.95	< 10	< 1	0.04	< 10	1.05
01HASL-75	201	202	20	< 0.2	2.11	52	< 10	50	< 0.5	< 2	0.11	< 0.5	11	22	41	4.74	< 10	< 1	0.03	< 10	0.75
01HASL-75D	201	202	70	< 0.2	2.20	58	< 10	50	< 0.5	< 2	0.13	< 0.5	11	24	47	5.57	< 10	< 1	0.03	< 10	0.80
01HASL-76	201	202	120	< 0.2	2.02	30	< 10	90	< 0.5	< 2	0.18	< 0.5	13	17	114	4.26	< 10	< 1	0.03	10	1.09

CERTIFICATION:

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 : BILL
Comments: ATTN: STEWART HARRIS

Certificate Date: 24-JUL-2001
Invoice No. : I0120658
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0120658

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
01HASL-70	201	202	855	4	< 0.01	17	940	44	0.02	2	4	14	< 0.01	< 10	< 10	24	< 10	250
01HASL-71	201	202	840	3	< 0.01	22	1780	10	< 0.01	4	4	15	0.03	< 10	< 10	33	< 10	76
01HASL-72	201	202	795	2	< 0.01	18	1640	8	0.02	< 2	5	17	< 0.01	< 10	< 10	35	< 10	84
01HASL-73	201	202	420	1	< 0.01	13	1410	2	0.01	< 2	4	13	< 0.01	< 10	< 10	34	< 10	60
01HASL-74	201	202	350	2	< 0.01	11	1150	2	< 0.01	2	2	10	< 0.01	< 10	< 10	31	< 10	48
01HASL-75	201	202	340	3	< 0.01	21	950	12	0.02	2	1	9	0.03	< 10	< 10	43	< 10	56
01HASL-75D	201	202	360	3	< 0.01	24	1080	10	0.02	2	1	10	0.03	< 10	< 10	46	< 10	60
01HASL-76	201	202	455	3	< 0.01	24	870	6	0.01	2	4	12	< 0.01	< 10	< 10	37	< 10	84

CERTIFICATION:

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ɔ: EQUITY ENGINEERING LTD.

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

Project : RFM01-11
Comments: ATTN: HENRY AWMACK

Certificate Date: 24-JUL-2001
Invoice No. : I0120695
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS A0120695

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 %
01HASS-008	201	202	95	< 0.2	2.36	20	< 10	340	< 0.5	< 2	0.57	< 0.5	13	65	27	3.38	< 10	< 1	0.25	< 10	1.62
01HASS-009	201	202	20	< 0.2	1.66	22	< 10	110	< 0.5	< 2	0.59	< 0.5	12	40	28	2.62	< 10	< 1	0.14	< 10	1.26
01HASS-010	201	202	40	< 0.2	2.16	46	< 10	100	< 0.5	< 2	0.83	< 0.5	16	50	56	3.30	< 10	< 1	0.06	< 10	1.59
01HASL-077	201	202	105	< 0.2	2.14	64	< 10	80	< 0.5	< 2	0.11	< 0.5	13	39	26	3.52	< 10	< 1	0.04	< 10	1.21
01HASL-078	201	202	< 5	< 0.2	3.58	8	< 10	60	< 0.5	< 2	0.11	< 0.5	16	55	62	4.10	< 10	< 1	0.03	< 10	2.80
01HASL-079	201	202	< 5	< 0.2	1.68	6	< 10	150	< 0.5	< 2	0.52	< 0.5	2	7	4	1.88	< 10	< 1	0.14	< 10	1.30
01HASL-080	201	202	< 5	< 0.2	1.55	2	< 10	60	< 0.5	< 2	0.03	< 0.5	4	14	6	2.02	< 10	< 1	0.08	< 10	0.62
01HASL-081	201	202	5	< 0.2	1.94	2	< 10	100	< 0.5	< 2	0.07	< 0.5	7	17	10	2.64	< 10	< 1	0.15	< 10	1.30
01HASL-082	201	202	35	< 0.2	2.04	4	< 10	50	< 0.5	< 2	0.09	< 0.5	6	22	10	2.52	< 10	< 1	0.17	< 10	1.22
01HASL-083	201	202	5	< 0.2	1.73	6	< 10	60	< 0.5	< 2	0.15	< 0.5	10	26	17	2.67	< 10	< 1	0.05	< 10	1.09
01HASL-084	201	202	35	< 0.2	1.98	2	< 10	60	< 0.5	< 2	0.04	< 0.5	7	26	11	2.42	< 10	< 1	0.03	< 10	1.00
01HASL-085	201	202	25	< 0.2	1.81	6	< 10	100	< 0.5	< 2	0.04	< 0.5	5	17	8	3.40	< 10	< 1	0.05	< 10	0.70
01HASL-086	201	202	< 5	< 0.2	1.90	< 2	< 10	60	< 0.5	< 2	0.02	< 0.5	7	23	7	3.09	< 10	< 1	0.04	< 10	0.81
01HASL-087	201	202	< 5	< 0.2	1.66	< 2	< 10	60	< 0.5	< 2	0.05	< 0.5	4	16	8	2.64	< 10	< 1	0.07	< 10	0.82
01HASL-087D	201	202	< 5	< 0.2	1.67	2	< 10	50	< 0.5	< 2	0.04	< 0.5	4	15	8	2.65	< 10	< 1	0.06	< 10	0.79
01HASL-088	201	202	10	< 0.2	2.95	< 2	< 10	330	< 0.5	< 2	0.18	< 0.5	11	35	23	4.18	< 10	< 1	0.67	< 10	1.83
01HASL-089	201	202	65	< 0.2	1.86	48	< 10	70	< 0.5	< 2	0.09	< 0.5	13	35	24	3.36	< 10	< 1	0.03	< 10	1.06
01HASL-090	201	202	140	< 0.2	2.28	88	< 10	100	0.5	< 2	0.40	< 0.5	17	43	27	4.16	< 10	< 1	0.03	< 10	1.24
01HASL-091	201	202	125	< 0.2	2.36	94	< 10	120	0.5	< 2	0.37	< 0.5	18	53	25	4.14	< 10	< 1	0.03	< 10	1.10
01HASL-092	201	202	50	< 0.2	2.60	44	< 10	70	0.5	< 2	0.12	< 0.5	22	149	36	4.38	< 10	< 1	0.06	< 10	1.61
01HASL-093	201	202	55	< 0.2	2.85	8	< 10	40	< 0.5	< 2	0.38	< 0.5	18	198	27	3.50	< 10	< 1	0.04	< 10	1.97
01HASL-094	201	202	45	< 0.2	2.29	2	< 10	140	< 0.5	< 2	0.17	0.5	13	134	20	2.96	< 10	< 1	0.04	< 10	1.37
01HASL-095	201	202	15	< 0.2	3.11	6	< 10	90	< 0.5	< 2	0.10	< 0.5	12	41	23	3.23	< 10	< 1	0.04	< 10	1.39
01MBSL-001	201	202	50	< 0.2	2.29	8	< 10	300	0.5	< 2	0.06	< 0.5	10	30	19	2.89	< 10	< 1	0.07	< 10	0.54
01MBSL-002	201	202	15	< 0.2	2.10	4	< 10	500	0.5	< 2	0.09	< 0.5	6	21	25	2.73	< 10	< 1	0.05	< 10	0.39
01MBSL-003	201	202	30	< 0.2	1.99	6	< 10	1140	0.5	< 2	0.06	< 0.5	6	19	19	2.78	< 10	< 1	0.04	< 10	0.37
01MBSL-004	201	202	45	< 0.2	2.19	4	< 10	2860	0.5	< 2	0.32	< 0.5	8	21	41	2.94	< 10	< 1	0.06	10	0.51
01MBSL-005	201	202	20	< 0.2	1.71	2	< 10	470	0.5	< 2	0.07	< 0.5	6	17	22	2.53	< 10	< 1	0.06	10	0.31
01MBSL-006	201	202	20	< 0.2	1.70	2	< 10	1330	0.5	< 2	0.35	< 0.5	6	18	28	2.68	< 10	< 1	0.06	10	0.46
01MBSL-007	201	202	10	< 0.2	2.04	2	< 10	1730	0.5	< 2	0.32	< 0.5	7	20	26	2.54	< 10	< 1	0.05	10	0.44
01MBSL-008	201	202	30	< 0.2	2.65	2	< 10	3900	1.0	< 2	0.63	< 0.5	10	21	51	3.22	< 10	< 1	0.06	30	0.61
01MBSL-010	201	202	150	< 0.2	1.67	4	< 10	1780	0.5	< 2	0.25	< 0.5	8	13	65	3.17	< 10	< 1	0.05	10	0.38
01MBSL-011	201	202	20	< 0.2	1.76	2	< 10	530	0.5	< 2	0.09	< 0.5	7	20	34	2.84	< 10	< 1	0.06	< 10	0.39
01MBSL-012	201	202	30	< 0.2	1.84	2	< 10	320	0.5	< 2	0.07	< 0.5	6	16	24	2.84	< 10	< 1	0.05	< 10	0.22
01MBSL-013	201	202	220	< 0.2	2.13	2	< 10	370	0.5	< 2	0.07	< 0.5	9	25	50	3.82	< 10	< 1	0.05	< 10	0.45
01MBSL-014	201	202	165	< 0.2	2.31	6	< 10	800	1.0	< 2	0.10	< 0.5	6	12	73	4.34	< 10	< 1	0.04	40	0.44
01MBSL-015	201	202	50	< 0.2	1.16	4	< 10	2040	1.0	< 2	0.31	< 0.5	6	< 1	158	4.97	< 10	< 1	0.04	50	0.21
01MBSL-016	201	202	25	< 0.2	2.18	2	< 10	540	0.5	< 2	0.19	< 0.5	7	15	26	3.98	10	< 1	0.05	30	0.29
01MBSL-017	201	202	15	< 0.2	2.34	2	< 10	430	0.5	< 2	0.11	< 0.5	9	25	27	3.41	< 10	< 1	0.05	< 10	0.49
01MBSL-018	201	202	75	< 0.2	1.62	< 2	< 10	950	0.5	< 2	0.15	< 0.5	6	19	24	3.27	< 10	< 1	0.04	< 10	0.33

CERTIFICATION:

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 : RFM01-11
Comments: ATTN: HENRY AWMACK

Certificate Date: 24-JUL-2001
Invoice No. : I0120695
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS A0120695

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
01HASS-008	201	202	950	< 1	< 0.01	31	800	12	0.05	2	6	25	0.08	< 10	< 10	63	< 10	108
01HASS-009	201	202	635	1	< 0.01	24	1190	4	0.06	4	3	21	0.04	< 10	< 10	36	< 10	68
01HASS-010	201	202	1030	1	< 0.01	33	1350	2	0.07	4	5	30	0.02	< 10	< 10	45	< 10	76
01HASL-077	201	202	830	1	< 0.01	22	830	2	0.05	2	1	9	0.04	< 10	< 10	53	< 10	72
01HASL-078	201	202	615	1	< 0.01	25	640	2	0.02	8	7	8	0.01	< 10	< 10	66	< 10	96
01HASL-079	201	202	380	< 1	< 0.01	2	240	< 2	0.02	2	1	16	0.07	< 10	< 10	10	< 10	84
01HASL-080	201	202	650	1	< 0.01	6	720	< 2	0.06	2	< 1	6	0.04	< 10	< 10	25	< 10	58
01HASL-081	201	202	555	< 1	< 0.01	11	390	2	0.03	< 2	1	7	0.05	< 10	< 10	26	< 10	76
01HASL-082	201	202	430	< 1	< 0.01	13	610	2	0.02	2	1	7	0.05	< 10	< 10	29	< 10	78
01HASL-083	201	202	410	1	< 0.01	22	820	2	0.02	2	3	9	0.03	< 10	< 10	39	< 10	66
01HASL-084	201	202	325	1	< 0.01	13	710	< 2	0.02	2	1	5	0.01	< 10	< 10	40	< 10	50
01HASL-085	201	202	670	1	< 0.01	10	500	2	0.05	2	1	7	0.05	< 10	< 10	36	< 10	56
01HASL-086	201	202	700	1	< 0.01	9	370	< 2	0.02	< 2	1	5	0.03	< 10	< 10	42	< 10	62
01HASL-087	201	202	340	1	< 0.01	9	590	4	0.04	2	< 1	7	0.03	< 10	< 10	30	< 10	80
01HASL-087D	201	202	350	< 1	< 0.01	9	590	2	0.04	4	< 1	7	0.03	< 10	< 10	31	< 10	76
01HASL-088	201	202	1215	1	< 0.01	18	680	< 2	0.05	2	4	9	0.14	< 10	< 10	73	< 10	98
01HASL-089	201	202	870	< 1	< 0.01	22	1190	2	0.05	2	< 1	7	0.01	< 10	< 10	49	< 10	70
01HASL-090	201	202	1005	1	< 0.01	32	1740	2	0.06	< 2	2	15	0.02	< 10	< 10	50	< 10	78
01HASL-091	201	202	1195	1	< 0.01	36	1380	6	0.06	4	3	18	0.03	< 10	< 10	43	< 10	84
01HASL-092	201	202	1830	1	< 0.01	69	1150	2	0.06	2	1	7	0.03	< 10	< 10	78	< 10	86
01HASL-093	201	202	630	1	< 0.01	78	1650	< 2	0.05	2	2	10	0.05	< 10	< 10	73	< 10	66
01HASL-094	201	202	825	1	< 0.01	53	830	2	0.06	< 2	1	10	0.04	< 10	< 10	70	< 10	86
01HASL-095	201	202	360	3	< 0.01	31	630	< 2	0.04	4	2	7	0.03	< 10	< 10	49	< 10	62
01MBSL-001	201	202	835	1	< 0.01	33	840	10	0.05	2	2	23	0.01	< 10	< 10	47	< 10	78
01MBSL-002	201	202	995	< 1	< 0.01	21	950	8	0.08	4	< 1	20	0.01	< 10	< 10	43	< 10	76
01MBSL-003	201	202	1055	< 1	< 0.01	16	1230	14	0.11	2	< 1	49	0.01	< 10	< 10	52	< 10	90
01MBSL-004	201	202	1495	1	< 0.01	21	1220	12	0.07	4	2	60	0.01	< 10	< 10	54	< 10	88
01MBSL-005	201	202	965	1	< 0.01	15	1390	10	0.11	4	< 1	21	0.01	< 10	< 10	42	< 10	78
01MBSL-006	201	202	1005	1	< 0.01	19	760	8	0.04	< 2	2	36	0.01	< 10	< 10	49	< 10	78
01MBSL-007	201	202	1395	1	< 0.01	20	910	14	0.05	2	1	61	0.01	< 10	< 10	43	< 10	74
01MBSL-008	201	202	2570	1	< 0.01	21	1840	18	0.09	2	3	49	0.02	< 10	< 10	53	< 10	100
01MBSL-010	201	202	2580	2	< 0.01	14	970	62	0.04	2	3	43	0.01	< 10	< 10	45	< 10	78
01MBSL-011	201	202	1505	1	< 0.01	21	750	16	0.05	2	1	42	0.01	< 10	< 10	42	< 10	76
01MBSL-012	201	202	1310	1	< 0.01	13	840	8	0.07	2	< 1	18	0.01	< 10	< 10	43	< 10	76
01MBSL-013	201	202	1385	2	< 0.01	28	490	8	0.04	2	3	13	0.03	< 10	< 10	48	< 10	90
01MBSL-014	201	202	2610	3	< 0.01	14	740	8	0.03	< 2	11	10	< 0.01	10	< 10	45	< 10	82
01MBSL-015	201	202	2390	4	< 0.01	2	630	10	0.01	< 2	21	15	< 0.01	10	< 10	39	< 10	72
01MBSL-016	201	202	1440	4	< 0.01	13	1200	6	0.07	< 2	5	11	0.01	10	< 10	39	< 10	84
01MBSL-017	201	202	1195	3	< 0.01	27	890	4	0.05	4	6	10	0.01	< 10	< 10	42	< 10	74
01MBSL-018	201	202	965	1	< 0.01	18	740	4	0.06	4	3	11	0.01	< 10	< 10	44	< 10	82

CERTIFICATION:

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To: EQUITY ENGINEERING LTD.

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

Project : RFM01-11
Comments: ATTN: HENRY AWMACK

Certificate Date: 24-JUL-2001
Invoice No. : I0120695
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS A0120695

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 %
01MBSL-019	201	202	30	< 0.2	2.13	2	< 10	1110	0.5	< 2	0.03	< 0.5	7	24	20	3.26	< 10	< 1	0.05	< 10	0.39
01MBSL-020	201	202	20	< 0.2	1.88	2	< 10	1740	0.5	< 2	0.03	< 0.5	6	19	23	2.92	< 10	< 1	0.05	< 10	0.32
01MBSL-021	201	202	20	< 0.2	2.94	2	< 10	1630	1.0	< 2	0.21	< 0.5	15	28	61	4.56	10	< 1	0.20	20	0.92
01MBSL-022	201	202	25	< 0.2	2.26	2	< 10	770	0.5	2	0.09	< 0.5	8	27	36	3.21	< 10	< 1	0.06	10	0.46
01MBSL-023	201	202	50	< 0.2	1.07	< 2	< 10	430	< 0.5	< 2	0.05	< 0.5	3	14	12	2.31	< 10	< 1	0.04	< 10	0.15

CERTIFICATION: ____________

ALS Chemex

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To: EQUITY ENGINEERING LTD.

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V6C 1G8

Project : RFM01-11
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P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS A0120695

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
01MBSL-019	201	202	1160	2	< 0.01	24	670	6	0.03	4	3	8	0.02	< 10	< 10	45	< 10	98
01MBSL-020	201	202	1560	2	< 0.01	20	670	6	0.03	2	4	7	0.01	< 10	< 10	37	< 10	84
01MBSL-021	201	202	3320	2	< 0.01	22	1400	10	0.06	2	6	20	0.05	10	< 10	81	< 10	154
01MBSL-022	201	202	1725	2	< 0.01	29	860	12	0.06	2	3	12	0.02	10	< 10	41	< 10	114
01MBSL-023	201	202	255	1	< 0.01	11	640	6	0.05	2	< 1	9	0.01	< 10	< 10	37	< 10	56

CERTIFICATION: [signature]

APPENDIX E.2

CERTIFICATES OF ANALYSIS

ROCK SAMPLES

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

A0120655

Comments: ATTN: STEWART HARRIS CC: D. CAULFIELD

CERTIFICATE A0120655

(EIA) - EQUITY ENGINEERING LTD.

Project: BILL
P.O. # : RFM01-11

Samples submitted to our lab in Vancouver, BC.
This report was printed on 26-JUL-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
205	14	Geochem ring to approx 150 mesh
226	12	0-3 Kg crush and split
294	2	4-7 Kg crush and split
3202	14	Rock - save entire reject
229	14	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 1 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-AA23	14	Au-AA23 : Au ppb: Fuse 30 grams	FA-AAS	5	10000
Au-GRA21	2	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0
Ag-ICP41	14	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
Al-ICP41	14	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
As-ICP41	14	As ppm: 32 element, soil & rock	ICP-AES	2	10000
B-ICP41	14	B ppm: 32 element, rock & soil	ICP-AES	10	10000
Ba-ICP41	14	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
Be-ICP41	14	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
Bi-ICP41	14	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
Ca-ICP41	14	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
Cd-ICP41	14	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
Co-ICP41	14	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
Cr-ICP41	14	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
Cu-ICP41	14	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
Fe-ICP41	14	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
Ga-ICP41	14	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
Hg-ICP41	14	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
K-ICP41	14	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
La-ICP41	14	La ppm: 32 element, soil & rock	ICP-AES	10	10000
Mg-ICP41	14	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
Mn-ICP41	14	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
Mo-ICP41	14	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
Na-ICP41	14	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
Ni-ICP41	14	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
P-ICP41	14	P ppm: 32 element, soil & rock	ICP-AES	10	10000
Pb-ICP41	14	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
S-ICP41	14	S %: 32 element, rock & soil	ICP-AES	0.01	10.00
Sb-ICP41	14	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
Sc-ICP41	14	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
Sr-ICP41	14	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
Ti-ICP41	14	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
Tl-ICP41	14	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
U-ICP41	14	U ppm: 32 element, soil & rock	ICP-AES	10	10000
V-ICP41	14	V ppm: 32 element, soil & rock	ICP-AES	1	10000
W-ICP41	14	W ppm: 32 element, soil & rock	ICP-AES	10	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

Comments: ATTN: STEWART HARRIS CC: D. CAULFIELD

CERTIFICATE A0120655

(EIA) - EQUITY ENGINEERING LTD.

Project: BILL
P.O. # : RFM01-11

Samples submitted to our lab in Vancouver, BC.
This report was printed on 26-JUL-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
205	14	Geochem ring to approx 150 mesh
226	12	0-3 Kg crush and split
294	2	4-7 Kg crush and split
3202	14	Rock - save entire reject
229	14	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

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Zn-ICP41	14	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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Project : BILL
Comments: ATTN: STEWART HARRIS CC: D. CAULFIELD

Certificate Date: 25-JUL-2001
Invoice No. : I0120655
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0120655

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t	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
134153	205	226	485	-----	< 0.2	3.17	256	< 10	30	< 0.5	6	9.49	< 0.5	18	200	37	2.99	< 10	1	0.02	< 10
134154	205	294	45	-----	< 0.2	2.76	80	< 10	250	< 0.5	< 2	1.41	< 0.5	9	21	28	3.75	< 10	< 1	0.13	< 10
134155	205	226	< 5	-----	< 0.2	3.22	112	< 10	70	< 0.5	6	0.94	< 0.5	9	53	32	3.89	< 10	1	0.07	< 10
134156	205	226	120	-----	< 0.2	3.26	534	< 10	80	< 0.5	8	0.98	< 0.5	10	58	22	3.93	< 10	< 1	0.10	< 10
134157	205	226	10	-----	< 0.2	2.82	64	< 10	160	< 0.5	< 2	1.21	0.5	6	56	27	3.32	< 10	< 1	0.12	< 10
134158	205	226	< 5	-----	< 0.2	3.18	12	< 10	130	< 0.5	< 2	1.80	0.5	7	41	22	3.83	< 10	1	0.14	< 10
134159	205	294	10	-----	0.2	1.51	76	< 10	60	< 0.5	< 2	9.85	< 0.5	11	28	60	3.19	< 10	< 1	0.16	< 10
134160	205	226	40	-----	0.2	0.63	198	< 10	30	< 0.5	< 2	13.35	< 0.5	5	22	34	1.91	< 10	< 1	0.12	< 10
134161	205	226	145	-----	< 0.2	4.05	544	< 10	50	< 0.5	< 2	5.34	0.5	27	141	81	5.34	< 10	1	0.07	< 10
134162	205	226	< 5	-----	0.4	0.48	340	< 10	50	< 0.5	< 2	6.16	< 0.5	14	23	73	4.13	< 10	< 1	0.18	< 10
134163	205	226	>10000	22.55	6.2	3.15	>10000	< 10	50	< 0.5	< 2	4.07	2.0	25	98	12	5.91	< 10	< 1	0.12	< 10
134164	205	226	5	-----	0.2	4.18	84	< 10	70	< 0.5	< 2	3.38	2.0	27	149	18	4.94	< 10	< 1	0.10	< 10
134165	205	226	750	-----	< 0.2	1.71	4870	< 10	60	< 0.5	6	1.71	< 0.5	8	126	4	2.23	< 10	< 1	0.09	< 10
134166	205	226	>10000	10.31	1.8	0.29	>10000	< 10	40	< 0.5	< 2	3.66	< 0.5	10	65	7	3.25	< 10	< 1	0.13	< 10

CERTIFICATION:

ALS Chemex

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V6C 1G8

Project : BILL
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Certificate Date: 25-JUL-2001
Invoice No. : I0120655
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0120655

SAMPLE	PREP CODE		Mg %	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
134153	205	226	3.07	1060	< 1	0.01	38	320	2	0.08	6	14	256	0.01	< 10	< 10	91	< 10	36
134154	205	294	2.60	465	< 1	0.02	3	780	2	0.32	2	7	62	< 0.01	< 10	< 10	17	< 10	80
134155	205	226	2.82	485	< 1	0.02	9	850	2	0.32	4	10	31	< 0.01	< 10	< 10	47	< 10	70
134156	205	226	2.88	510	< 1	0.03	9	750	10	0.19	< 2	11	32	< 0.01	< 10	< 10	41	< 10	84
134157	205	226	2.47	405	< 1	0.01	4	710	8	0.21	6	6	53	< 0.01	< 10	< 10	17	< 10	138
134158	205	226	2.68	510	1	0.01	3	1010	2	0.17	4	6	63	< 0.01	< 10	< 10	14	< 10	102
134159	205	294	0.96	780	< 1	0.01	9	310	8	1.49	< 2	3	143	0.01	< 10	< 10	17	< 10	66
134160	205	226	0.57	755	< 1	0.01	9	150	12	1.36	< 2	2	220	< 0.01	< 10	< 10	6	< 10	114
134161	205	226	3.52	1255	< 1	0.03	47	950	< 2	0.12	2	19	189	< 0.01	< 10	< 10	137	< 10	58
134162	205	226	1.01	665	< 1	0.03	10	420	12	2.06	< 2	6	100	< 0.01	< 10	< 10	16	< 10	50
134163	205	226	4.59	1870	< 1	0.01	47	920	178	1.81	74	16	189	< 0.01	< 10	< 10	85	< 10	144
134164	205	226	4.40	1285	< 1	0.03	50	910	6	0.16	14	21	169	0.03	< 10	< 10	136	< 10	162
134165	205	226	2.43	875	< 1	0.02	16	370	4	0.38	2	5	74	< 0.01	< 10	< 10	38	< 10	32
134166	205	226	1.58	1430	< 1	0.01	1	360	4	1.51	2	3	132	< 0.01	< 10	< 10	5	50	10

CERTIFICATION: ____________

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To: EQUITY ENGINEERING LTD.

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

Project : BILL
Comments: ATTN: STEWART HARRIS CC:D.CAULFIELD

Certificate Date: 25-JUL-2001
Invoice No. : I0120656
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0120656

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t	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
51065	205	226	1470	-----	0.6	0.63	>10000	< 10	40	< 0.5	< 2	4.96	< 0.5	10	27	5	3.63	< 10	1	0.14	< 10
51066	205	226	115	-----	2.0	0.04	5900	< 10	80	< 0.5	< 2	0.30	< 0.5	1	127	29	1.39	< 10	1	0.02	< 10
51067	205	226	2290	-----	0.6	0.03	9990	< 10	270	< 0.5	< 2	0.03	< 0.5	< 1	125	10	1.35	< 10	< 1	0.03	< 10
51068	205	226	55	-----	0.8	0.22	112	< 10	< 10	< 0.5	< 2	0.01	< 0.5	3	64	110	9.08	< 10	< 1	0.01	< 10
51069	205	226	295	-----	1.0	0.33	48	< 10	50	< 0.5	4	0.03	< 0.5	1	138	160	6.76	< 10	< 1	0.11	< 10
51070	205	226	2960	-----	1.4	0.26	162	< 10	50	< 0.5	2	0.03	< 0.5	1	126	108	7.30	< 10	< 1	0.12	< 10
51071	205	226	170	-----	0.2	0.11	22	< 10	180	< 0.5	< 2	0.01	< 0.5	< 1	95	10	2.02	< 10	< 1	0.28	< 10
272501	205	226	2800	-----	6.0	0.39	>10000	< 10	30	0.5	< 2	3.06	< 0.5	8	33	42	7.26	< 10	< 1	0.25	< 10
272502	205	226	305	-----	2.8	0.30	3950	< 10	100	< 0.5	< 2	0.37	< 0.5	1	42	34	3.00	< 10	< 1	0.22	< 10
272503	205	226	>10000	10.26	0.8	0.09	6780	< 10	330	< 0.5	< 2	0.04	< 0.5	1	145	3	1.43	< 10	< 1	0.04	< 10
272504	205	226	135	-----	< 0.2	0.16	144	< 10	70	< 0.5	< 2	< 0.01	< 0.5	1	38	3	1.17	< 10	< 1	0.11	10
272505	205	226	455	-----	1.2	0.31	1345	< 10	50	0.5	< 2	0.11	0.5	12	15	167	12.00	< 10	< 1	0.14	< 10
272506	205	226	10	-----	< 0.2	0.02	38	< 10	< 10	< 0.5	< 2	13.55	2.0	1	3	6	7.99	< 10	1	0.01	< 10
272507	205	226	< 5	-----	< 0.2	0.25	18	< 10	30	< 0.5	< 2	0.08	< 0.5	5	125	49	2.07	< 10	< 1	0.02	< 10
272508	205	226	< 5	-----	< 0.2	0.81	10	< 10	30	< 0.5	< 2	0.16	< 0.5	9	33	33	3.02	< 10	< 1	0.05	< 10
272509	205	226	10	-----	< 0.2	0.24	6	< 10	40	< 0.5	< 2	1.98	< 0.5	6	67	81	2.50	< 10	< 1	0.13	< 10
272510	205	226	< 5	-----	< 0.2	0.26	6	< 10	40	< 0.5	< 2	1.87	< 0.5	7	52	48	2.74	< 10	< 1	0.11	< 10
272511	205	226	380	-----	0.2	0.16	1075	< 10	40	< 0.5	< 2	0.05	< 0.5	3	72	9	3.32	< 10	< 1	0.11	< 10
272512	205	226	10	-----	< 0.2	0.42	14	< 10	140	0.5	< 2	2.30	< 0.5	10	19	350	4.86	< 10	< 1	0.30	< 10
272513	205	226	190	-----	< 0.2	0.11	510	< 10	30	< 0.5	4	3.86	0.5	23	56	9	6.59	< 10	< 1	0.07	< 10
272514	205	226	105	-----	< 0.2	0.85	1915	< 10	110	< 0.5	< 2	0.05	< 0.5	4	35	4	2.91	< 10	< 1	0.14	< 10
272515	205	226	35	-----	0.6	0.13	208	< 10	60	< 0.5	< 2	0.76	< 0.5	4	108	12	1.79	< 10	< 1	0.04	< 10
272516	205	226	215	-----	0.2	0.21	4040	< 10	40	< 0.5	2	3.32	< 0.5	8	48	37	2.67	< 10	< 1	0.16	< 10
272517	205	226	30	-----	< 0.2	0.34	1365	< 10	20	< 0.5	< 2	8.94	< 0.5	5	31	33	4.99	< 10	2	0.13	< 10
272518	205	226	5	-----	< 0.2	0.10	10	< 10	50	< 0.5	< 2	3.87	< 0.5	5	94	3	3.23	< 10	< 1	0.01	< 10
272519	205	226	75	-----	58.0	0.10	76	< 10	30	< 0.5	< 2	8.03	>500	9	< 1	632	6.44	< 10	31	0.07	< 10
272520	205	226	1500	-----	>100.0	0.18	2190	< 10	60	< 0.5	< 2	0.04	3.0	8	50	583	6.90	< 10	< 1	0.16	< 10
272521	205	226	1480	-----	1.6	0.06	684	< 10	10	< 0.5	2	7.50	4.5	22	34	99	9.67	< 10	< 1	0.04	< 10
272522	205	226	605	-----	1.8	0.15	536	< 10	10	< 0.5	< 2	0.46	< 0.5	7	66	192	3.65	< 10	< 1	0.05	< 10
272523	205	226	6620	-----	1.4	0.07	>10000	< 10	20	< 0.5	< 2	2.65	< 0.5	5	80	14	6.28	< 10	< 1	0.05	< 10
272524	205	226	250	-----	0.8	< 0.01	494	< 10	30	0.5	8	0.28	0.5	< 1	9	1915	13.55	< 10	< 1	< 0.01	< 10
272525	205	226	4700	-----	4.4	0.16	910	< 10	30	< 0.5	2	0.01	< 0.5	3	110	42	2.85	< 10	< 1	0.12	< 10
272526	205	226	155	-----	< 0.2	1.89	18	< 10	70	0.5	2	3.05	< 0.5	25	121	442	4.76	< 10	< 1	0.26	< 10
272527	205	226	3590	-----	0.2	1.78	92	< 10	70	0.5	126	0.19	< 0.5	17	13	110	6.92	< 10	< 1	0.12	< 10
272528	205	226	485	-----	0.6	1.57	10	< 10	30	0.5	4	1.74	1.0	16	126	731	11.25	< 10	< 1	0.19	< 10
272529	205	226	1405	-----	4.2	0.75	82	< 10	30	< 0.5	4	0.05	< 0.5	4	51	221	8.14	< 10	< 1	0.14	< 10
272530	205	226	80	-----	< 0.2	1.31	86	< 10	40	< 0.5	6	0.02	< 0.5	9	60	420	5.65	< 10	< 1	0.08	< 10
560701	205	226	315	-----	0.6	1.68	5750	< 10	20	< 0.5	< 2	0.15	< 0.5	5	43	4	6.60	< 10	< 1	0.12	< 10
560702	205	226	5	-----	0.4	0.68	18	< 10	50	< 0.5	< 2	0.68	0.5	3	123	201	1.22	< 10	< 1	0.04	< 10
560703	205	226	5	-----	< 0.2	0.35	18	< 10	100	< 0.5	< 2	1.51	< 0.5	5	81	17	2.45	< 10	< 1	0.05	< 10

CERTIFICATION:________________

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Project : BILL
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Certificate Date: 25-JUL-2001
Invoice No. : I0120656
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0120656

SAMPLE	PREP CODE		Mg %	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
51065	205	226	1.61	1640	< 1	0.01	18	770	< 2	2.62	12	3	250	< 0.01	< 10	< 10	7	< 10	< 2
51066	205	226	0.07	670	< 1	0.01	4	10	48	0.20	22	< 1	18	< 0.01	< 10	< 10	< 1	< 10	18
51067	205	226	< 0.01	80	< 1	0.01	3	10	8	0.30	4	< 1	31	< 0.01	< 10	< 10	< 1	< 10	10
51068	205	226	0.01	85	13	0.01	3	190	2	0.04	4	< 1	2	0.01	< 10	< 10	9	< 10	14
51069	205	226	0.01	25	2	0.02	4	750	4	0.17	< 2	3	6	< 0.01	< 10	< 10	15	< 10	4
51070	205	226	0.01	35	14	0.03	2	920	4	0.26	< 2	4	11	< 0.01	< 10	< 10	28	< 10	2
51071	205	226	0.01	5	6	0.05	3	140	2	0.60	< 2	< 1	11	< 0.01	< 10	< 10	8	< 10	< 2
272501	205	226	0.13	465	< 1	0.02	3	2720	66	6.55	10	2	180	< 0.01	< 10	< 10	5	< 10	10
272502	205	226	0.03	200	2	0.03	1	1770	20	0.50	18	1	44	< 0.01	< 10	< 10	3	< 10	6
272503	205	226	< 0.01	155	< 1	0.01	3	30	2	0.14	2	< 1	17	< 0.01	< 10	< 10	1	< 10	2
272504	205	226	< 0.01	10	< 1	0.14	1	90	6	0.49	2	< 1	11	< 0.01	< 10	< 10	1	< 10	< 2
272505	205	226	0.03	200	< 1	0.15	6	980	38	0.41	4	3	132	< 0.01	< 10	< 10	9	< 10	< 2
272506	205	226	5.11	5880	< 1	0.02	< 1	170	< 2	0.29	10	1	95	< 0.01	< 10	10	1	< 10	< 2
272507	205	226	0.12	670	< 1	0.01	5	90	8	0.05	< 2	3	8	< 0.01	< 10	< 10	9	< 10	52
272508	205	226	0.37	565	< 1	0.03	6	470	< 2	< 0.01	2	6	13	< 0.01	< 10	< 10	24	< 10	64
272509	205	226	0.56	680	< 1	0.01	10	350	< 2	0.01	8	1	44	< 0.01	< 10	< 10	7	< 10	30
272510	205	226	0.50	445	< 1	0.02	9	460	< 2	0.05	4	1	58	< 0.01	< 10	< 10	14	< 10	50
272511	205	226	0.01	30	1	0.04	2	510	6	0.49	< 2	1	16	< 0.01	< 10	< 10	6	< 10	< 2
272512	205	226	0.17	960	< 1	0.02	3	2760	< 2	0.49	2	5	121	< 0.01	< 10	< 10	6	< 10	26
272513	205	226	1.71	1395	< 1	0.02	38	190	4	3.27	< 2	6	92	< 0.01	< 10	< 10	10	< 10	< 2
272514	205	226	0.56	285	< 1	0.01	3	350	6	0.65	2	2	5	< 0.01	< 10	< 10	4	< 10	20
272515	205	226	0.20	650	< 1	0.03	4	380	2	0.02	6	4	28	< 0.01	< 10	< 10	2	< 10	28
272516	205	226	1.28	1135	< 1	0.01	10	650	2	1.34	6	3	133	< 0.01	< 10	< 10	5	< 10	2
272517	205	226	1.13	4110	< 1	0.01	6	510	22	0.24	4	8	81	< 0.01	< 10	< 10	19	< 10	24
272518	205	226	1.29	1235	< 1	0.01	5	130	< 2	0.12	2	4	43	< 0.01	< 10	< 10	5	< 10	30
272519	205	226	2.80	3580	< 1	0.01	13	450	>10000	2.60	550	1	121	< 0.01	< 10	< 10	1	30	>10000
272520	205	226	0.01	75	< 1	0.01	6	180	102	1.86	628	1	12	< 0.01	< 10	< 10	1	10	830
272521	205	226	2.01	2210	< 1	< 0.01	23	110	44	5.18	14	5	87	< 0.01	< 10	< 10	11	< 10	596
272522	205	226	0.18	240	1	0.04	7	360	4	2.27	26	3	14	< 0.01	< 10	< 10	4	< 10	184
272523	205	226	1.32	1420	< 1	< 0.01	3	130	66	4.03	54	1	126	< 0.01	< 10	< 10	< 1	< 10	116
272524	205	226	1.77	4560	1	< 0.01	8	40	14	1.68	22	1	285	< 0.01	< 10	< 10	1	< 10	90
272525	205	226	0.02	30	< 1	< 0.01	3	50	30	1.92	70	< 1	10	< 0.01	< 10	< 10	3	< 10	52
272526	205	226	2.49	865	< 1	0.02	59	1380	< 2	1.17	4	20	44	< 0.01	< 10	< 10	87	< 10	44
272527	205	226	1.33	310	3	0.04	12	1520	< 2	0.09	6	11	18	< 0.01	< 10	< 10	199	< 10	40
272528	205	226	1.68	565	58	0.02	19	1120	< 2	1.80	6	14	22	0.06	< 10	< 10	164	20	34
272529	205	226	0.60	60	6	0.07	7	710	10	0.98	6	6	10	0.12	< 10	< 10	138	10	26
272530	205	226	0.63	145	10	0.03	13	500	2	0.08	6	8	4	< 0.01	< 10	< 10	60	< 10	22
560701	205	226	1.16	145	< 1	0.01	7	200	26	4.93	28	1	8	< 0.01	< 10	< 10	6	< 10	62
560702	205	226	0.40	270	< 1	< 0.01	7	260	< 2	0.01	< 2	1	41	< 0.01	< 10	< 10	7	< 10	40
560703	205	226	0.45	520	< 1	< 0.01	14	340	2	0.05	4	3	34	< 0.01	< 10	< 10	16	< 10	58

CERTIFICATION: ____________

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 : BILL
Comments: ATTN: STEWART HARRIS CC:D.CAULFIELD

Certificate Date: 25-JUL-2001
Invoice No. : I0120656
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0120656

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t	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
560704	205	226	25	-----	< 0.2	0.40	8	< 10	10	< 0.5	< 2	0.01	< 0.5	5	50	77	4.37	< 10	< 1	0.09	< 10
560705	205	226	230	-----	< 0.2	0.12	10	< 10	130	< 0.5	< 2	0.07	< 0.5	4	108	36	2.38	< 10	< 1	0.18	< 10

CERTIFICATION: ____________

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To: EQUITY ENGINEERING LTD.

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

Project : BILL
Comments: ATTN: STEWART HARRIS CC:D.CAULFIELD

Certificate Date: 25-JUL-2001
Invoice No. : I0120656
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0120656

SAMPLE	PREP CODE		Mg %	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
560704	205	226	0.08	35	15	0.01	6	240	2	0.03	< 2	1	< 1	< 0.01	< 10	< 10	14	< 10	38
560705	205	226	0.05	80	93	0.01	3	580	< 2	0.80	2	1	12	< 0.01	< 10	< 10	11	50	6

CERTIFICATION: [signature]

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To: EQUITY ENGINEERING LTD.

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

Project : RFM01-11
Comments: ATTN: HENRY AWMACK

Certificate Date: 24-JUL-2001
Invoice No. : I0120696
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS A0120696

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 %
051072	205	226	5	< 0.2	0.13	14	< 10	40	< 0.5	< 2	0.01	< 0.5	8	104	19	3.02	< 10	< 1	0.07	< 10	0.01
051073	205	226	< 5	< 0.2	0.15	6	< 10	60	< 0.5	< 2	< 0.01	< 0.5	1	105	5	0.80	< 10	< 1	0.11	< 10	< 0.01
272531	205	226	15	< 0.2	0.07	30	< 10	10	< 0.5	< 2	1.62	< 0.5	2	89	1	1.13	< 10	< 1	0.01	< 10	0.76
560706	205	226	170	< 0.2	0.04	12	< 10	430	< 0.5	< 2	0.06	< 0.5	26	129	1040	1.84	< 10	< 1	< 0.01	< 10	< 0.01
560707	205	226	10	< 0.2	0.39	< 2	< 10	180	< 0.5	< 2	0.15	< 0.5	< 1	36	5	1.34	< 10	< 1	0.01	10	0.04

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VANCOUVER, BC
V6C 1G8

Project : RFM01-11
Comments: ATTN: HENRY AWMACK

Certificate Date: 24-JUL-2001
Invoice No. : I0120696
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS A0120696

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
051072	205	226	35	1	0.02	8	200	2	0.10	80	< 1	12	< 0.01	< 10	< 10	2	< 10	16
051073	205	226	15	6	0.01	4	100	< 2	0.09	36	< 1	7	< 0.01	< 10	< 10	2	< 10	< 2
272531	205	226	530	< 1	0.04	5	100	< 2	0.21	4	2	22	< 0.01	< 10	< 10	5	< 10	< 2
560706	205	226	70	3	0.01	7	10	2	0.24	2	< 1	17	< 0.01	< 10	< 10	6	< 10	< 2
560707	205	226	30	1	0.04	3	90	< 2	< 0.01	< 2	2	5	< 0.01	< 10	< 10	4	< 10	< 2

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To: EQUITY ENGINEERING LTD.

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

Project : BILL
Comments: ATTN: H. AWMACK CC: D. CAULFIELD

Certificate Date: 08-AUG-2001
Invoice No. : I0121703
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0121703

SAMPLE	PREP CODE	Weight Kg	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
272534	94139402	2.06	< 5	< 0.2	0.17	2	< 10	110	< 0.5	< 2	0.21	< 0.5	< 1	58	10	1.19	< 10	< 1	0.04	10
272535	94139402	1.08	< 5	< 0.2	0.30	2	< 10	60	< 0.5	4	0.03	< 0.5	4	78	12	0.80	< 10	< 1	0.01	10

CERTIFICATION:

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To: EQUITY ENGINEERING LTD.

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V6C 1G8

Project : BILL
Comments: ATTN: H. AWMACK CC: D. CAULFIELD

Certificate Date: 08-AUG-2001
Invoice No. : I0121703
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0121703

SAMPLE	PREP CODE	Mg %	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
272534	94139402	0.01	210	< 1	0.07	< 1	90	8	0.01	2	3	6	< 0.01	< 10	< 10	2	< 10	6
272535	94139402	0.01	125	2	0.07	2	70	< 2	< 0.01	< 2	2	5	< 0.01	< 10	< 10	3	< 10	2

CERTIFICATION:

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To: EQUITY ENGINEERING LTD.

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VANCOUVER, BC
V6C 1G8

A0121401

Comments: ATTN: STEWART HARRIS CC:D.CAULFIELD

CERTIFICATE A0121401

(EIA) - EQUITY ENGINEERING LTD.

Project: BILL
P.O. # : RFM01-11

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-AUG-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
3288	4	Ring 1000 g to approx -150 mesh
234	4	0-7 Kg splitting charge
3206	4	1Kg sieve to -150 mesh

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-SCR23	4	Au g/t: Total, metallics calc.	FA-AAS/GRAV	0.07	1500.00
Au-GRA21	4	Au- g/t: double metallics calc.	FA-AAS/GRAV	0.07	1500.00
887	4	Au+ mg: Metallics calculation	FA-AAS/GRAV	0.002	50.000
889	4	Weight- g: Metallics calculation	BALANCE	1	10000
888	4	Weight+ g: Metallics calculation	BALANCE	0.01	200.0
Au-GRA21	4	Au g/t: 30 gram (double met.)	FA-GRAVIMETRIC	0.07	1500.0
Au-GRA21	4	Au g/t: 30 gram (double met.)	FA-GRAVIMETRIC	0.07	1500.0

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V6C 1G8

Project : BILL
Comments: ATTN: STEWART HARRIS CC:D.CAULFIELD

Certificate Date: 10-AUG-2001
Invoice No. : I0121401
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0121401

SAMPLE	PREP CODE		Au tot g/t	Au-avg g/t	Au + mg	Wt - grams	Wt + grams	Au -(1) g/t	Au -(2) g/t			
134163 RE	3288	234	25.60	12.00	4.450	312	7.84	11.91	12.09			
134166 RE	3288	234	9.28	9.19	0.032	100	2.40	9.28	9.09			
272503 RE	3288	234	6.85	5.60	0.976	681	18.77	5.46	5.75			
272523 RE	3288	234	13.20	8.84	2.370	517	9.03	8.43	9.25			

CERTIFICATION: ____________

RERUNS from A0120656

ALS Chemex

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To: EQUITY ENGINEERING LTD.

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

A0121014

Comments: ATTN: STEWART HARRIS CC:D.CAULFIELD

CERTIFICATE A0121014

(EIA) - EQUITY ENGINEERING LTD.

Project: BILL
P.O. #: RFM01-11

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-JUL-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
212	2	Overlimit pulp, to be found

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Ag-AA46	1	Ag g/t: Conc. Nitric HCl dig'n	AAS	1	1500
Pb-AA46	1	Pb %: Conc. Nitric-HCl dig'n	AAS	0.01	50.0
Zn-AA46	1	Zn %: Conc. Nitric-HCl dig'n	AAS	0.01	50.0

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V6C 1G8

Project : BILL
Comments: ATTN: STEWART HARRIS CC:D.CAULFIELD

Page Nu. :1
Total Pages :1
Certificate Date: 24-JUL-2001
Invoice No. : I0121014
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0121014

SAMPLE	PREP CODE		Ag g/t	Pb %	Zn %
272519	212	--	-----	1.28	18.55
272520	212	--	142	-----	-----

OVERLIMITS from A0120656

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ALS Chemex
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To: EQUITY ENGINEERING LTD.

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

A0121399

Comments: ATTN: STEWART HARRIS CC: D. CAULFIELD

CERTIFICATE A0121399

(EIA) - EQUITY ENGINEERING LTD.

Project: BILL
P.O. # : RFM01-11

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-2001.

SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
212	2	Overlimit pulp, to be found

ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
As-AA46	2	As %: conc. Nitric-HCl digestion	AAS	0.01	30.0

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To: EQUITY ENGINEERING LTD.

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

Project : BILL
Comments: ATTN: STEWART HARRIS CC: D. CAULFIELD

Certificate Date: 31-JUL-2001
Invoice No. : I0121399
P.O. Number : RFM01-11
Account : EIA

CERTIFICATE OF ANALYSIS A0121399

SAMPLE	PREP CODE		As %									
134163	212	--	2.83									
134166	212	--	0.99									

OVERLIMITS from A0120655

CERTIFICATION: ____________

ALS Chemex
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To: EQUITY ENGINEERING LTD.

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

Project : BILL
Comments: ATTN: STEWART HARRIS CC:D.CAULFIELD

Page Number :1
Total Pages :1
Certificate Date: 31-JUL-2001
Invoice No. :10121400
P.O. Number :RFM01-11
Account :EIA

CERTIFICATE OF ANALYSIS A0121400

SAMPLE	PREP CODE		As %									
51065	212	--	1.51									
272501	212	--	1.86									
272523	212	--	5.52									

OVERLIMITS from A0120656

CERTIFICATION:

APPENDIX F

QUALITY CONTROL / QUALITY ASSURANCE

QUALITY CONTROL / QUALITY ASSURANCE

I. Chain of Custody

All samples were packed in rice sacks and sealed with uniquely-numbered non-resealable security straps. Rice sacks were trucked from Prince George via BTS to ALS Chemex Labs in North Vancouver. ALS Chemex reported that all bags were received in good condition, with all security straps intact, and with no evidence of tampering.

II. Field Duplicates

Field duplicates are the collection and analysis of two separate samples from the same field location. They are used to measure the reproducibility of sampling, which includes both laboratory variation and sample variation.

A total of six sets of field duplicate soil samples were collected (approximately every 20th sample location) and submitted for analysis. At a precision level of 20%, all elements of interest except Au show variabilities that lie within the 90th percentile confidence level (Figure 1). Au is consistent with a 40% level of precision; Figure 2 shows that only one sample exceeds the 90th percentile confidence level and that the probability of this occurrence is 71.8%.

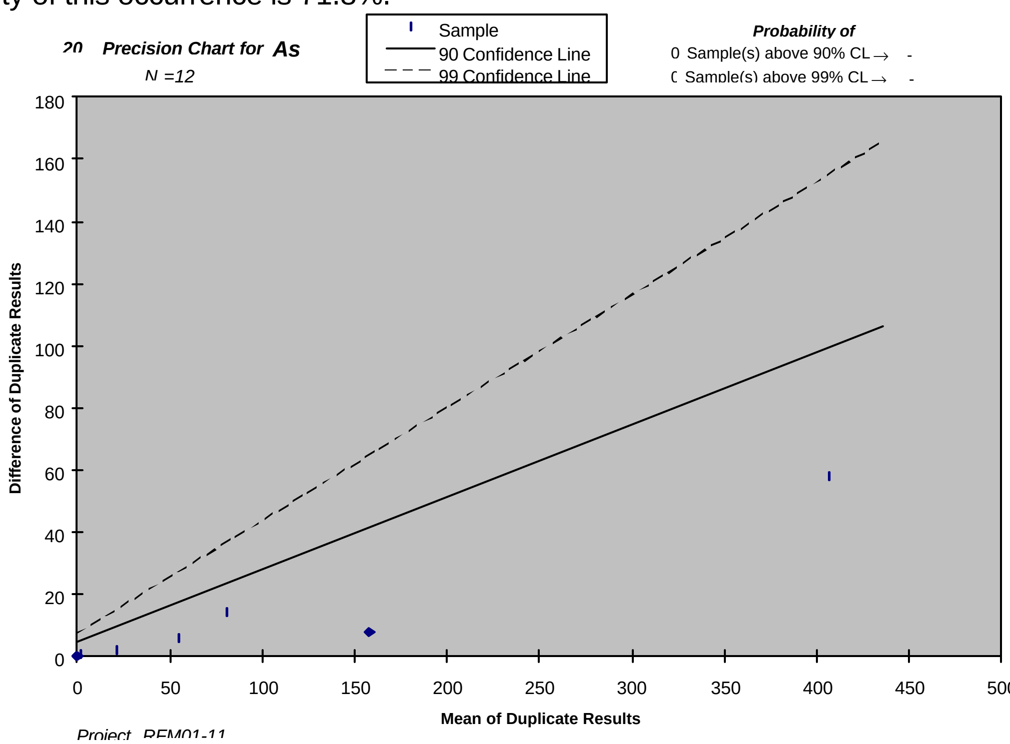

Figure 1: Graph illustrating Thompson and Howarth estimation of analytical precision, method two. The data points represent duplicate pairs, the solid line represents the 90th percentile of the population, and the dashed line the 99th percentile of the population (n=6 duplicate pairs). In this instance, the precision was set at 20%, and at this level within the given dataset, no samples fall above the 90th percentile line.

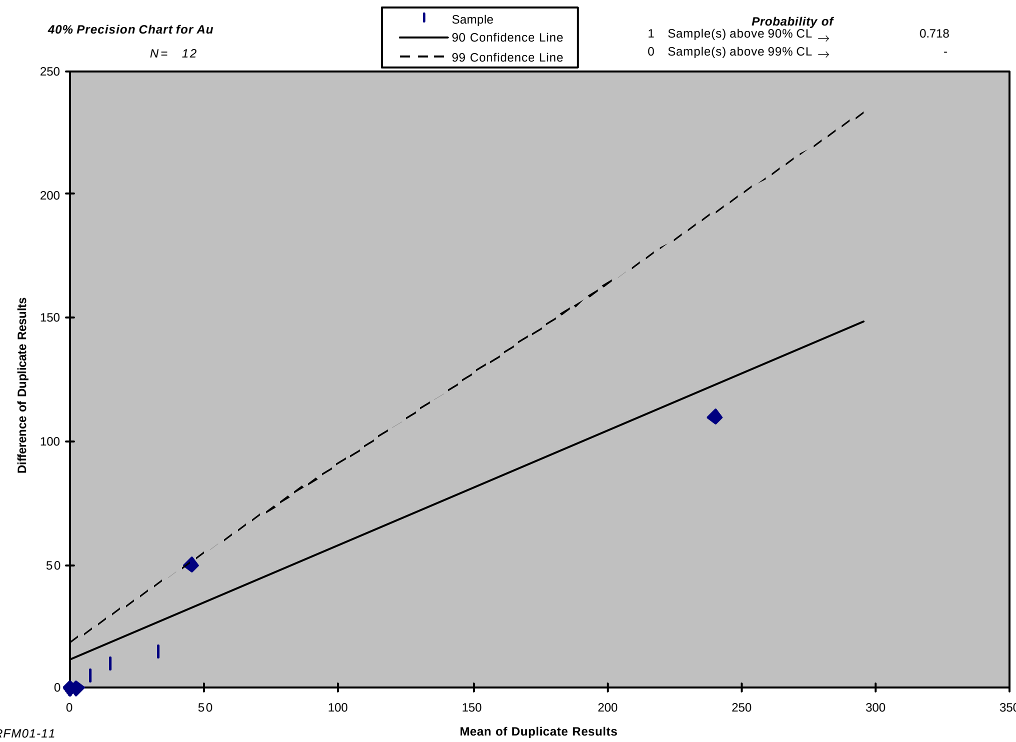

Figure 2: Graph illustrating Thompson and Howarth estimation of analytical precision, method two. The data points represent duplicate pairs, the solid line represents the 90th percentile of the population, and the dashed line the 99th percentile of the population (n=6 duplicate pairs). In this instance, the precision was set at 40%, and at this level within the given dataset, one sample falls above the 90th percentile line. From the binomial probability it can be read that at 40% precision, the probability of 1 sample falling above the 90th percentile is 71.8%.

III. Metallic (Screen) Assays

Reject portions of the four rock and core samples exceeding 5,000 ppb Au in initial geochemical analysis (all taken from the T-Bill prospect) were subjected to metallic assaying to determine whether coarse particulate gold is present and under-reported by conventional sample preparation. Particulate gold is malleable and flattened during the pulverization process; with the standard sample preparation, any coarse gold left on the screens is disregarded. With metallic assaying, the coarse gold contribution (+ Fraction) is added to the assay for the material passing the 150 mesh screen (- Fraction), giving a truer estimate for the total gold content. The following table shows that three samples (134163, 272503 and 272523) contained a significant amount of particulate gold, causing a 22-113% increase in grade. Comparison of the minus fraction assays for initial and reject samples demonstrates a high variability (12-88%) in grade between the two splits.

Sample	Initial Sample Split		Reject Sample Split (Metallic Assay)				Difference between Splits
	Geochem (ppb)	- Fraction Assay (g/tonne)	+ Fraction Gold (mg)	- Fraction Assay (g/tonne)	Total Grade (g/tonne)	Increase in Grade[1]	
134163	>10000	22.55	4.45	12.00	25.60	113%	88%
134166	>10000	10.31	0.03	9.19	9.28	10%	12%
272503	>10000	10.26	0.98	5.61	6.85	22%	55%
272523	6620	N/A	2.37	8.73	13.20	51%	32%

[1]For the metallic assays, total assay relative to the minus fraction assay

[2]Percent difference between minus fraction assays for the initial and reject splits (for 272523, the geochemical value was used for the initial split)

IV. Conclusions

1. There was no tampering with the samples between collection and laboratory.
2. Field duplicates for soil samples exhibit a high degree of reproducibility with most elements

reproducible at 20% precision. Au is reproducible at an acceptable 40% level of precision.

3. Particulate gold is common in high-grade rock and core samples from the T-Bill prospect. Since previous assaying of drill core did not employ metallic assays, it is very likely that gold contents were under-reported for core intersections.
4. All samples exceeding 5,000 ppb Au should be tested by metallic (screen) assaying of the reject.
5. The “nugget effect” (high variability between sample duplicates), generally caused by the presence of coarse gold, will be a concern in future evaluation of the T-Bill prospect.

APPENDIX G

CD-ROM

Report text, geochemical and drill databases, CAD files

CONTENTS OF COMPACT DISC

Directory	File Name	Information/Data Type	Data Source/Author	Area of Coverage	Years of Coverage	File Format
N/A	CD-Rom contents.doc	This appendix				Word
N/A	Bill 2001 assessment report.doc	2001 report text	H.J. Awmack	Bill property	2001	Word
N/A	RockSample Descriptions.pdf	Appendix C	Field notes	Bill property	2001	Adobe Acrobat 4.0
Geochem	Bill79-01 silt master.xls	all known silt analyses and locations	Cominco, Drown (1982), Eccles (1981), this report	Bill property	1979-2001	Excel
Geochem	Bill79-01 soil master.xls	all nonoverlapping soil analyses and sample locations	Chemex, CDN and EcoTec certificates, assorted assessment reports, this report	Bill property	1980-2001	Excel
Geochem	Bill84-01Rock Master.xls	surface rock analyses and sample locations	Paterson (1985), this report	Bill property	1984-2001	Excel
Geochem	Bill83-01Core Master00.xls	1983-84 diamond drill sample analyses and interval	CDN certificates, Forbes and Drown (1984), Kowalchuk (1984), this report	Bill property	1983-2001	Excel
Geochem	Core Summary.xls	1983-84 weighted averages	Bill83-01CoreMaster.xls	Bill property	1983-2001	Excel
MapInfo		MapInfo tables and layouts for Figures 5-8		Bill property		MapInfo
ACAD		Autocad and Corel files for Figures 1-4		Bill property		Autocad
Plots	Bill01 Fig1.plt	BC location map		Bill property		plt/HP750C+
Plots	Bill01 Fig2.prn	claim map	BC claim maps, field notes	Bill property	2001	Corel/HP1220C
Plots	Bill01 Fig3.prn	regional geology map	Thorstad (1980)	Bill property	1980	Corel/HP1220C
Plots	Bill01 Fig4.plt	1-50,000 geology	M.J. Davies	Bill property	2001	plt/HP750C+
Plots	Bill01 Fig5.plt	1:10,000 sample locations	M.J. Davies	Bill property	2001	plt/HP750C+
Plots	Bill01 Fig6.plt	1:10,000 Au geochemistry	M.J. Davies	Bill property	1979-2001	plt/HP750C+
Plots	Bill01 Fig7.plt	1:10,000 As geochemistry	M.J. Davies	Bill property	1979-2001	plt/HP750C+
Plots	Bill01 Fig8.plt	1:10,000 Cu geochemistry	M.J. Davies	Bill property	1979-2001	plt/HP750C+

APPENDIX H

<u>ENGINEER'S CERTIFICATE</u>

ENGINEER'S CERTIFICATE

I, Henry J. Awmack, of 1735 Larch Street, Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geological Engineer with offices at Suite 700, 700 West Pender Street, Vancouver, British Columbia.

2. THAT I am a principal of Equity Engineering Ltd., a geological consulting and contracting firm.

3. THAT I am a graduate of the University of British Columbia with an Honours Bachelor of Applied Science degree in Geological Engineering.

4. THAT I am a Professional Engineer registered in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (#15,709).

5. THAT this report is based on fieldwork carried out by me or under my direction in July 2001, on publicly available reports and on historical data provided by previous operators of the Bill property. I have examined the property in the field.

DATED at Vancouver, British Columbia, this___day of _____________, 2001.

____
Henry J. Awmack, P.Eng.


Detailed Grid Area
300 S
1853
1900
LEGEND
Claim post; unlocated, lo
Drill Hole
Showing
Silt Sample
Soil Sample
Rock Sample
Float Rock Sample
Note: For sample results
0 = no result available
-ve number = below detection limit
0
1000
metres
RIMFIRE MINERALS CORP.
BILL PROJECT
Toodoggone Area, B.C.
SOIL, SILT & ROCK GEOCHEMISTRY
2001 Sample Locations
Date August 2001
Scale 1:10,000
Figure 5
U.T.M. Zone Zone 9 - NAD 83
Mining Division Liard
N.T.S. 94E/13 & 12
State/Province BC
EQUITY
6410000
6409000 mN
6408000 mN
6407000 mN
6406000 mN
6405000 mN
6404000 mN
6403000 mN
6402000 mN
6401000 mN
6400000 mN
6399000 mN
569000 mE
570000 mE
571000 mE
572000 mE
573000 mE
574000 mE
575000 mE
577000 mE
MORAINE

Detailed Grid Area
300 S
1853
BT3
BT2
GG1
MORAINE
LEGEND
Claim post; unlocated, lo
Drill Hole
Showing
Silt Sample
Soil Sample
Rock Sample
Float Rock Sample
Note: For sample results
0 = no result available
-ve number = below detection limit
Soil Samples
Au (ppb)
> 1000
250 - 1000
100 - 250
20 - 100
< 20
Silt Samples
Au (ppb)
> 500
200 - 500
60 - 200
20 - 60
< 20
Rock Samples
Au (ppb)
> 10,000
2500 - 10,000
500 - 2500
100 - 500
< 100
Float Rock Samples
Au (ppb)
> 10,000
2500 - 10,000
500 - 2500
100 - 500
< 100
0
1000
metres
RIMFIRE MINERALS CORP.
BILL PROJECT
Toodoggone Area, B.C.
SOIL, SILT & ROCK GEOCHEMISTRY
Au (ppb)
Date August 2001
Scale 1:10,000
Figure 6
U.T.M. Zone Zone 9 - NAD 83
Mining Division Liard
N.T.S. 94E/13 & 12
State/Province BC

Detailed Grid Area
300 S
LEGEND
Claim post; unlocated, locate
Drill Hole
Showing
Silt Sample
Soil Sample
Rock Sample
Float Rock Sample
Note: For sample results
0 = no result available
-ve number = below detection limit
Soil Samples
As (ppm)
> 1000
500 - 1000
100 - 500
20 - 100
< 20
Silt Samples
As (ppm)
> 600
250 - 600
100 - 250
20 - 100
< 20
Float Rock Samples
As (ppm)
> 5000
2000 - 5000
500 - 2000
100 - 500
< 100
Rock Samples
As (ppm)
> 5000
2000 - 5000
500 - 2000
100 - 500
< 100
0
1000
metres
RIMFIRE MINERALS CORP.
BILL PROJECT
Toodoggone Area, B.C.
SOIL, SILT & ROCK GEOCHEMISTRY
As (ppm)
Date August 2001
Scale 1:10,000
Figure 7
U.T.M. Zone Zone 9 - NAD 83
Mining Division Liard
N.T.S. 94E/13 & 12
State/Province BC
EQUITY


Detailed Grid Area
300 S
1853
LEGEND
Claim post; unlocated, located
Drill Hole
Showing
Silt Sample
Soil Sample
Rock Sample
Float Rock Sample
Note: For sample results
0 = no result available
-ve number = below detection limit
Soil Samples
Cu (ppm)
> 300
200 - 300
130 - 200
50 - 130
< 50
Silt Samples
Cu (ppm)
> 150
125 - 150
95 - 125
50 - 95
< 50
Rock Samples
Cu (ppm)
> 500
200 - 500
100 - 200
50 - 100
< 50
Float Rock Samples
Cu (ppm)
> 500
200 - 500
100 - 200
50 - 100
< 50
0
1000
metres
RIMFIRE MINERALS CORP.
BILL PROJECT
Toodoggone Area, B.C.
SOIL, SILT & ROCK GEOCHEMISTRY
Cu (ppm)
Date August 2001
Scale 1:10,000
Figure 8
U.T.M. Zone Zone 9 - NAD 83
Mining Division Liard
N.T.S. 94E/13 & 12
State/Province BC
EQUITY
6410000
6409000 mN
6408000 mN
6407000 mN
6406000 mN
6405000 mN
6404000 mN
6403000 mN
6402000 mN
6401000 mN
6400000 mN
6399000 mN
569000 mE
570000 mE
571000 mE
572000 mE
573000 mE
574000 mE
575000 mE
576000 mE
577000 mE
MORAINE