

### 1996

MAL

### GEOLOGICAL AND GEOCHEMICAL WORK PROGRAM MAD CLAIM GROUP

### WATSON BAR CREEK CLINTON MINING DIVISION LAT. 51 03'; LONG. 122 07'; NTS 092/1E

### Operator FIRST POINT MINERALS CORP.

Owner BHP MINERALS CANADA LTD.

BY

R.M. BRITTEN, Ph. D., P.Eng.

July 30, 1997

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#### **1.0 INTRODUCTION**

#### 1.1 SUMMARY

On the Mad Property, broadly folded and faulted Lower Cretaceous sediments are intruded by northwest trending dikes, sills and stocks of quartz feldspar porphyry and granodiorite. These intrusions roughly coincide with a broad zone of gossanous alteration that extends across Stirrup Creek Resource's Watson Bar Gold Property on the eastern margin of the Mad Property to near the western edge of the Mad Property and has a total length of 9 km.

The broad alteration zone is 300 to 600 m wide and 4 km long and consists of pervasive quartz-carbonate-sericite alteration and significant gold mineralization associated with quartz-carbonate-pyrite-arsenopyrite-base metal veins. At the eastern end, north trending quartz veins in the Madsen Creek drainage returned between 3.6 and 10.9 gm Au/t over 1 m channel samples; in an adit on the central part of the zone a 2 m channel sample ran 9.12 gm gold/t and two of three follow up drill holes close to the adit intersected 1.2 to 4.3 gm gold/t over 0.6 to 1 m intervals; towards the western end of the zone, surface samples of high sulphide veins up to 0.5m wide averaged approximately 25 gm gold/t.

Approximately two thirds of the zone on the Mad Property has been covered with grid controlled soil geochemical surveys by previous workers and large soil anomalies, mainly arsenic, mercury and more locally gold, occur over wide intervals. Previous work also includes drill programs on the western end of the alteration zone and to a lesser extent, towards the eastern end, in the area of the 10 m long adit driven sometime before 1970.

The \$30,000 surface exploration program in 1996 focused on the eastern half of the Mad Property, particularly the immediate strike extension of the broad zone of alteration encompassing Stirrup Creek Resource's Watson Bar Gold Property. It involved grid-controlled soil sampling and some geological mapping and minor silt and rock sampling. A 400 by 1200 m, +100 to 1130 ppm As soil anomaly was defined on the south margin of the grid from west of Madsen Creek east, up slope to the property boundary. Within this As anomaly are smaller +200 to 396 ppm Cu and +30 to 101 ppb Au soil anomalies that define a narrower east-striking trend. One highly oxidized, grab rock sample from within the Au anomaly carried 10.9 gms gold/t Au and two other grab samples collected by previous workers from narrow vein showings returned 9.7 and 1.4 gm gold/t Au.

A two-stage exploration program recommended for 1997, includes stage 1 in-fill soil and rock sampling, IP and magnetometer surveys, geologic mapping and trenching at an estimated cost of \$160,000. Work would focus on the adit area, Madsen As-Au-Cu soil anomaly and the region in between. A stage 2 phased drill

(2800 m) and trenching program is proposed at an estimated cost of \$400,000.

#### **1.2 OWNERSHIP AND AGREEMENT TERMS**

The Mad Property is located 70 km north of Lillooet in southern British Columbia (Figure 1). The Pioneer Bralorne Mine (4.2 million ounces of gold past production) is located about 65 km southwest of the Mad Property, the Blackdome Mine 42 km to the northwest, and to the immediate southeast is the Watson Bar Gold Property where Stirrup Creek Resources Inc. recently intersected 23.8 gm gold/t over 3.66 m in hole 96-11.

First Point was granted an exclusive option to purchase a 100% undivided interest in the Mad Property by an agreement dated October 23, 1996, between BHP Minerals Canada Ltd. ("BHP") and First Point Minerals Corp.

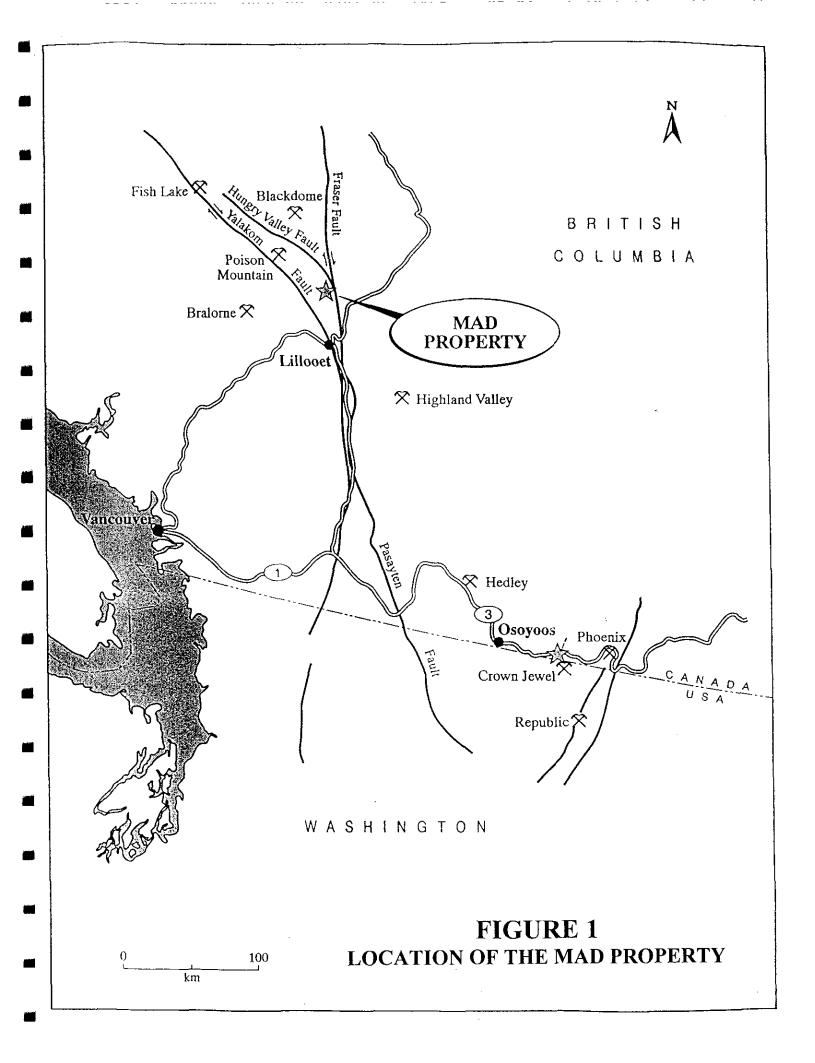
The property consists of 8 mineral claims totaling 101 units or approximately 3000 hectares. The Bar 1 claim was staked by First Point. As a condition of the option, First Point had to spend \$25,000 for exploration work on the property by December 31, 1996. This condition has been met. In order to exercise the option First Point must incur a further \$100,000 for exploration or development work on the Property before Dec. 31, 1997; and on or before Dec. 31, 1997, apply to the Alberta Stock Exchange to issue to BHP 260,000 Common Shares in the capital stock of First Point Mineral Corp., and use its best efforts to have them free-trading if possible, but subject to requirements of any regulatory authorities.

CLAIM	UNITS	TENURE	DATE RECORDED	EXPIRY DATE *
NAME		NUMBER		
MAD 1	20	208053	Aug. 12, 1982	Aug. 12, 1998
MAD 2	20	208054	Aug. 12, 1882	Aug. 12, 1998
MAD 3	16	208055	Aug. 12, 1982	Aug. 12, 1998
MAD 9	20	208061	Aug. 12, 1982	Aug. 12, 1998
MAD 10	10	208123	Aug. 12, 1983	Aug. 12, 1998
MAD 11	9	208124	Aug. 25, 1993	Aug. 25, 1998
S.G. 1	2	208299	July 30, 1987	July 30, 1998
BAR 1	16	233584	Sept. 23, 1996	Sept. 23, 1997
BAR	4	336514	June 9, 1995	June 7, 1997

### **<u>1.3</u>** CLAIMS STATUS

\* Excluding assessment to be filed based on this report.

The Legal Corner Posts of the MAD 1,2,3 mineral claims were noted at the



confluence of Watson Bar and Madsen Creeks and surveyed with a GPS that has an accuracy of about 3 m (Figure 2). Similarly the LCP's of the Second 5 and Ulcer claims, which mark the eastern edge of the Mad property, have also been surveyed using the GPS unit.

#### **1.4 LOCATION AND ACCESS**

The MAD mineral claims are centered roughly on Latitude 51°03'; Longitude 122°07' in map sheet NTS 092/1E in the Clinton Mining Division, in southern British Columbia.

The claims partly cover the drainage of Watson Bar and Madsen Creeks that flow easterly to the Fraser River about 6.5 kilometers from their junction (Figure 2).

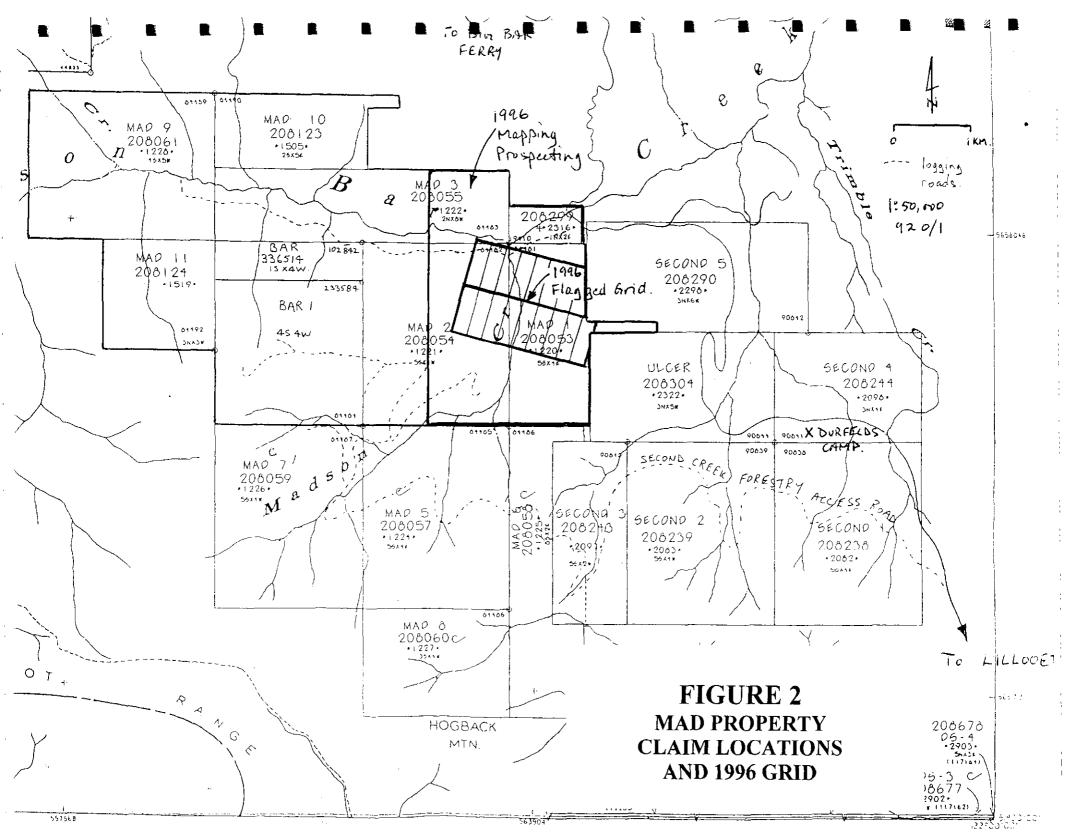
Access to the property is via the Slok Creek Forestry Road north from Lillooet, BC, a distance of approximately 85km; it is a good gravel surface suitable for logging trucks. Local access is by a four-wheel drive exploration road constructed by Utah Mines Ltd. in 1984 and by recently constructed logging roads in upper Madsen Creek and Watson Bar Creek.

Elevations within the claims range from about 500 to 2000 m above sea level. Much of the higher elevations are in areas of subdued topography, typical of the Interior Plateau. However steep walled canyons occur within the Watson Bar and Madsen Creek valleys.

#### **<u>1.5 HISTORY</u>**

Mr. H. Fenton of Lillooet reports visiting the adit area over 25 years ago, however, when the adit was completed is unknown. Work by Utah Mines Ltd. (now BHP Minerals Canada Inc.) included the following:

	<u>1983</u>	1984	<u> 1985</u>
Geological Mapping (1:5,000)	300 ha	1,475 ha	_
Base Line Cutting	2.2 km	-	-
Line Cutting	-	49.85	-
Cross Line Flagged	15.0 km	-	-
Road Construction	-	12.6 km	-
Grid Soil Samples	312	500	-
Contour Soil Samples	726	-	-
Rock Geochem. Samples	296	480	-
VLF-EM	-	79.8 km	-
Magnetometer Survey	-	49.9 km	-



I.P. Survey, Gradient	-	19.2 km	5.4 km
I.P. Survey, Dipole	-	7.4 km	.95 km
Diamond Drilling (12 holes)	-	-	10, 513.4 ft

BHP focused most of their efforts on the western portion of the claim group covering the large zone of alteration (Figure 3) with the grid-controlled work noted in the table above. A carbonate-clay altered fault zone bounding the southern margin of the broad scale alteration and defined by a resistivity low and chargeability high was the main drill target tested by BHP in 1984. Drill results were largely negative although numerous massive sulphide veins were located off the west end of the alteration zone and averaged about 25 gpt Au over 0.5 m widths based on surface channel sampling.

In 1987, Southern Gold Resources Ltd. optioned the property and collected a further 229 talus fine or soil samples and 152 rock samples from various parts of the property. This included extending the existing base line 950 m to the east beyond Madsen Creek and establishing cross lines aggregating 2.4 km and rock sampling of the adit and immediate area. Five adjacent adit samples ranged between 4.8 and 9.12 gm gold/t over 7 m in a poorly defined northerly trend.

In 1988, based on the previous summer's work, Southern Gold drill tested the adit above Watson Bar Creek with 3 NQ holes (672 m) and sampled (27 channels) gold bearing veins in Madsen Creek. Significant results include drill intersections of 4.3 gm gold/t over 1 m, and up to 10.9 gm gold/t over 1 m from veins in Madsen Creek.

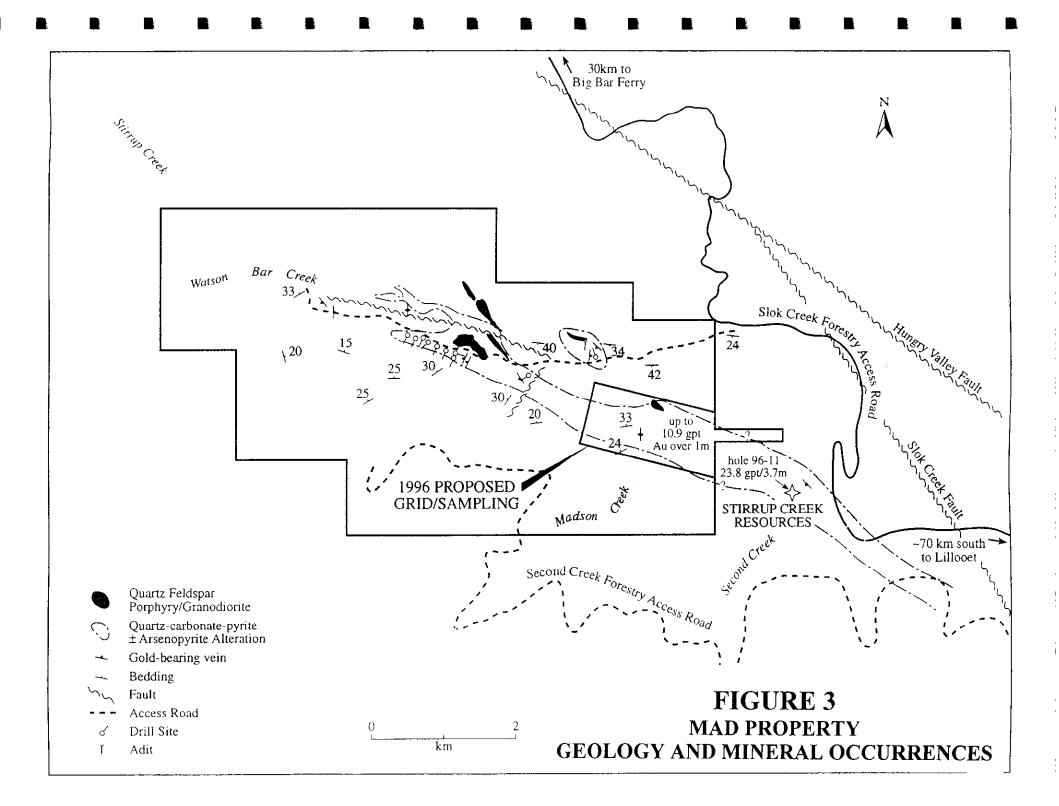
#### 1.6 1996 WORK PROGRAM

Grid controlled soil sampling and large scale mapping and compilation were the principle components of the late season (October 1 to 24) program on the Mad Project. About 19.4 line km of grid was established, half soil sampled (454 soils) with large sections not sampled because of blocky talus, slide cover, steep topography or snow cover. During several wide ranging geological traverses 23 rock samples and 9 silt samples were also collected. Detailed mapping and sampling of the grid and follow-up trenching were planned but precluded by early snowfall and permitting.

#### **2.0 GEOLOGY AND INTERPRETATION**

#### **<u>2.1 REGIONAL GEOLOGY</u>**

The Mad Property is underlain by generally shallow, broadly folded, clastic



sedimentary rocks of the Lower Cretaceous Jackass Mountain Group which is about 5000 m thick in this area (Hickson et al, 1994). These are cut by west to northwest trending multiphase felsic to intermediate intrusives, concomitant broad-scale alteration and more local gold mineralization (Figure 3). Intrusions and alteration roughly coincide with an east-trending property scale syncline and fault zone.

The regional Fraser River and Hungary Valley Fault Zones are located off the west end of the Mad Property and separate the Jackass Group from younger volcanic units to the east. East and north-northeast striking faults and northeast trending folds on the Mad Property are probably temporally related to movement on these major regional faults.

#### **<u>2.2</u> PROPERTY GEOLOGY**

Generally massive green feldspathic litharenite, polymictic conglomerate and thin to thick bedded siltstone and sandstone comprise the Jackass Mountain Group on the Mad Property. A 200 to 300 m thick section of siltstone-sandstone is the main host to intrusion and alteration and mineralization. It is underlain and overlain by mixed litharenite and conglomerates and has been intruded by sills, stocks and dikes that exhibit a variety of compositions ranging from granodiorite-diorite to quartz feldspar porphyry but also including feldspar porphyry, hornblende feldspar porphyry and andesite. Alteration and mineralization is spatially and probably temporally related to multiphase stocks on the Stirrup Creek Resource's property to the east of Mad and another north of the main BHP drill target and a large quartz feldspar porphyry sill-laccolith complex in Watson Bar and Madsen Creeks.

#### **2.3 MINERALIZATION**

Known gold mineralization on the Mad Property occurs within and peripheral to the large scale zone of alteration that consists of pervasive quartz-carbonatesericite-pyrite. North or northwest trending gold bearing quartz veins occur in Madsen Creek, near the adit above the Watson Bar-Madsen Creek junction, north and east of the main target previously drilled by BHP and off the west end of the alteration zone on the south side of Watson Bar Creek (Figure 3).

Gold mineralization at the Mad Property occurs in a number of interrelated environments (Pollock and Ord, 1984). These include: silicified stockworks of quartz-carbonate veinlets that contain pyrite, arsenopyrite and chalcopyrite; conformable veins and zones of siliceous replacement containing variable carbonate, arsenopyrite, pyrite and lesser stibnite, chalcopyrite, galena and sphalerite; massive sulphide veins up to 0.5 m wide consisting mainly of pyrrhotite, pyrite, arsenopyrite, sphalerite and minor chalcopyrite and galena; and mineralized siltstones. There is commonly a close correlation between As and Au content in most of these environments.

Cockscomb or cockade quartz textures were noted in the easternmost veins particularly near the adit and in Stirrup Creek Resource's shallow southwest dipping quartz vein.

#### Adit Area

The adit area is underlain by a thick altered, quartz feldspar porphyry best described as a laccolithic intrusion whose stem is probably centered in Watson Bar Creek and whose sill-like margins extend across the east trending property scale syncline, south up Madsen Creek (Figure 3). Siltstones and sandstones occur in the hanging wall to the intrusion and are the main host to both south dipping and steeply-dipping, north striking, quartz-carbonate veins and silicified zones containing gold, arsenopyrite, pyrite and, lesser chalcopyrite and sphalerite, and trace galena. Most veins are narrow, less than 3 cm wide, and trend 320 to 340° within a semi-continuous zone exposed over a strike of about 60 m; a number of samples from the zone ranged up to 9.12 gms Au/t over 0.5 m (Lisle 1988). Sampling on the west wall of the adit returned between 4.3 and 9.1 gm gold/t Au over 7 m in a silicified breccia-vein system of uncertain orientation.

Two of three drill holes in the adit area returned several 0.6 to 1 m intervals of 1.2 to 4.3 grams Au/t in narrower zones than those mapped at surface and in the adit. Only one drill setup was available for these holes because of steep topography; reorientation of the drill direction was recommended (Lisle 1988) and would test steeply dipping, north trending veins or fractures. This trend is noted on other parts of the property including: silicified and carbonate altered envelopes to fractures noted in quartz feldspar porphyry and quartz stringers in siltstones in Watson Bar Creek below the adit; steep north-northeast striking veins north of the target area previously drilled by BHP; and veins in upper Madsen Creek. There is likely a genetic link between the bedding parallel and steep north trending veins.

#### Madsen Grid Area

Several scattered narrow veins showings occur in the area of the new soil grid covering Madsen Creek. Three known areas of mineralized veins range from roughly bedding parallel to steep dipping in both an east and north-northwest trending direction.

They all lie within the broad scale zone of alteration; one has been thoroughly trenched and returned between 22 and 10,100 ppb Au in more than 30 samples (Lisle 1987 and 1988). Grab samples from the two other vein occurrences carried

up to 9.72 grams gold/t. One of seven grab samples recently collected from other parts of this area returned 10.9 grams Au/t in highly oxidized altered sediment.

#### Upper Watson Bar Creek

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Two types of veins occur in upper Watson Bar Creek; massive sulphide veins off the east end of the main alteration zone and quartz carbonate sulphide veins in the area of the BHP drill test. The former seems to be the more significant of the two types of veins and consist of pyrrhotite, pyrite, arsenopyrite and sphalerite and minor chalcopyrite and galena. These generally north-northwest striking veins pinch and swell to 0.5 m and average 25 grams gold/t over tens of meters (Pollock 1983). More recent work has traced them over 100 m of strike (Lisle 1987).

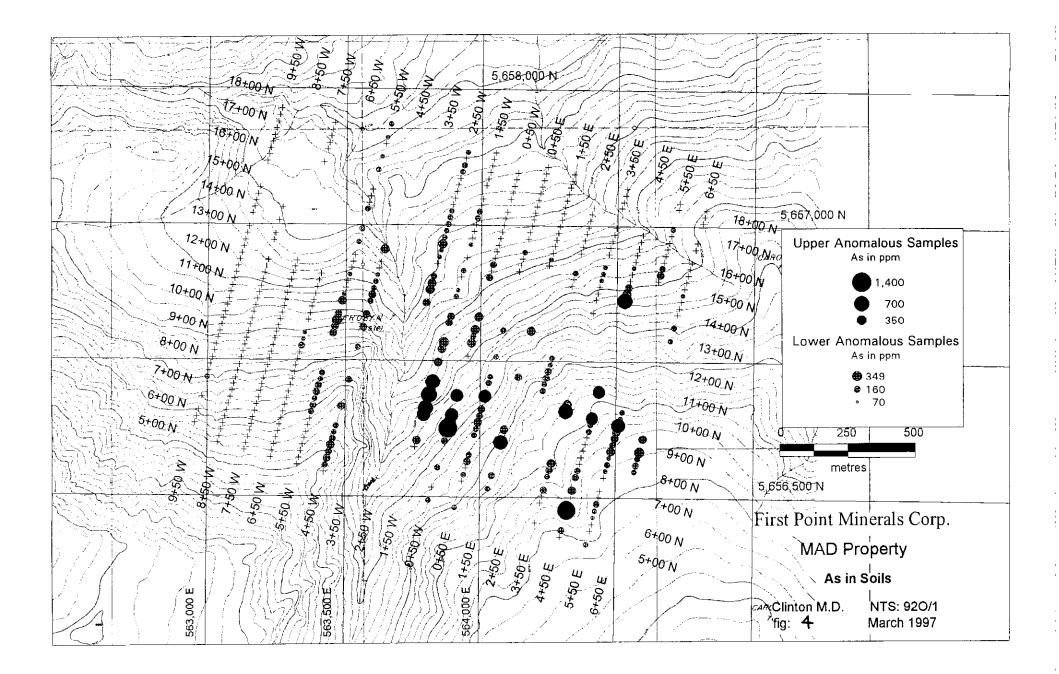
#### 2.4 GEOCHEMICAL SURVEYS

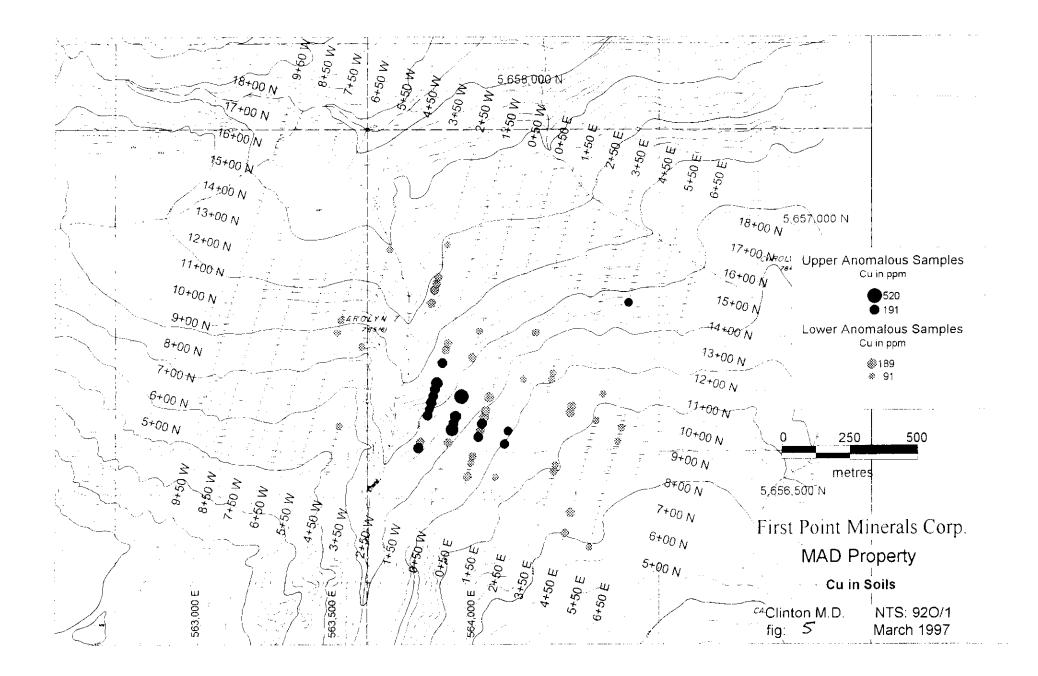
Soil sampling was done over the grid outlined in Figure 3 and covered the extension of the broad zone of quartz-carbonate-sericite-pyrite alteration to the eastern property boundary and also another zone of alteration extending southeast from the adit towards the Stirrup Creek Resource's vein. Soils were collected where possible on 25 m intervals on lines spaced 100 m apart. They were taken at considerable depth to ensure collection below a layer of impermeable volcanic ash that otherwise masks geochemical response. Blocky talus, slide cover, steep topography or snow cover prevented sampling about 50% of the grid. Drainage train silt sampling was done down Madsen Creek at 200 m intervals (Figure 7, Appendix D).

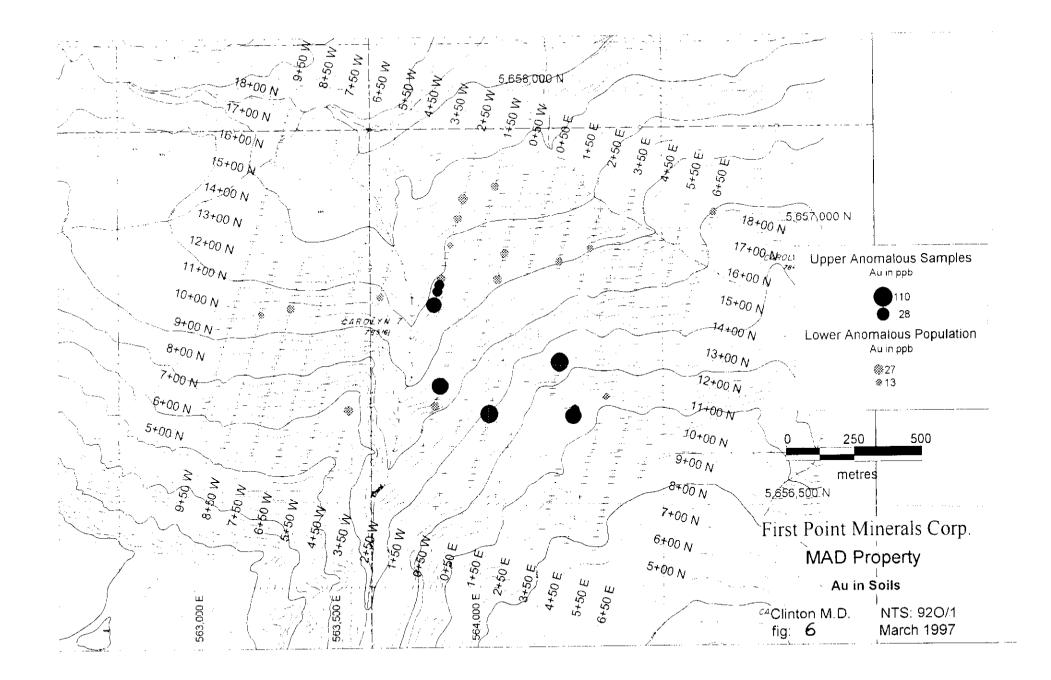
Soils and silts were placed in kraft paper bags and sent to IPL laboratory in Vancouver for Au analysis by fire assay and atomic absorption and 30 element ICP analysis on the -80 size fraction.

Analytical results were evaluated and thresholds estimated using the model of three component populations (Sinclair 1976, Appendix E).

The key result of this survey was the definition of a large, +100 to 1130 ppm As soil anomaly on the south margin of the grid (Figures 3 and 4). It measures about 400 m wide and extends 1200 m from west of Madsen Creek east, up slope to the property boundary. Smaller and partially overlapping +200 to 396 ppm Cu (Figure 5) and +30 to 101 ppb Au (Figure 6) soil anomalies lie within this As anomaly and define a narrower east-striking trend. One highly oxidized, grab rock sample from within the Au anomaly carried 10.9 gms gold/t Au and two other grab samples collected by previous workers from narrow vein showings returned 9.7 and 1.4 gm gold/t Au.







Drainage train silt samples from Madsen Creek are anomalous in Au (32 to 62 ppb), As (156 to 634 ppm) and Cu (111 to 221 ppm) for over 1 km; these samples are from within the boundaries of the broad scale alteration zone.

#### 2.5 EXPLORATION POTENTIAL /PROPOSED WORK

The adit area and the large soil anomaly centered east of Madsen Creek are the main target areas warranting additional work. Both vein and stockwork or disseminated type mineralization are possible targets. Other areas warranting further investigation include the region between the adit and the Madsen soil anomaly, areas on the Madsen Grid not soil sampled in 1996, particularly those between the northwest trending veins in the adit area and Stirrup Creek Resource's vein discovery, vein showings in upper Watson Bar Creek and the slope north of Watson Bar Creek.

In the adit area, more detailed mapping, particularly of vein habits and attitudes will help position drill holes in this rugged terrain. Previously mapped steep, north-striking and shallow south-dipping mineralized structures can only be tested with additional down dip or along strike drilling.

The elongate, bulls-eye As-Au-Cu soil anomaly occupying the east slope of Madsen Creek warrants mapping and rock and soil sampling on closer spaced (50 m) lines to help better define trench or drill targets. Given the locally steep topography on this slope, hand/blast trenching might be the best initial test because access road construction could be costly. If results warrant, then road construction, machine trenching and drilling are recommended.

The region between the adit and Madsen soil anomaly is occupied by a broad syncline and underlain by the quartz feldspar porphyry laccolith whose stem probably originates in Watson Bar Creek below the adit. At surface, this area is covered by poorly exposed, weakly altered and broadly folded massive arenites (Figure 3) that could easily mask subsurface targets of significant size. If drill testing is positive in either the adit or Madsen soil anomaly target areas, then drill testing of this blind target is recommended.

#### 3.0 CONCLUSIONS

Folded and faulted Lower Cretaceous Jackass Mountain Group clastic sedimentary rocks host multiphase intrusions, alteration and mineralization at the Mad Property. Intrusive rocks range from granodiorite to quartz feldspar porphyry and are spatially and temporally related to broad scale quartz-carbonatesericite-pyrite alteration. A variety of gold vein zones are located within or near

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7+00 N 6+00 N 5+00 N +		-MAD 8 + + + + + + + + + + + + + + + + + +		13+00 N 12+00 N 11+00 N 10+00 N 9+00 N 8+00	Q 250 metres	Analytical data n Appendix D) 500
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this broad scale alteration.

Intrusive related, disseminated, stockwork or vein type mineralization are the key target types on the property. They have epithermal affinities.

Known gold mineralization occurs in a number of interrelated environments. These include: conformable quartz veins and zones of siliceous replacement containing variable carbonate, arsenopyrite, pyrite and lesser stibnite, chalcopyrite, galena and sphalerite in the area of the adit and the Madsen soil anomaly; mineralized siltstones in Madsen Creek; massive sulphide veins up to 0.5 m wide consisting mainly of pyrrhotite, pyrite, arsenopyrite, sphalerite and minor chalcopyrite and galena off the west end of the broad alteration zone; and silicified stockwork of quartz-carbonate veinlets that contain pyrite, arsenopyrite and chalcopyrite in the area of the BHP drill test. There is commonly a close correlation between As and Au content in most of these environments.

Key target areas on the property are the adit area and Madsen As-Au-Cu soil anomaly and other unsampled areas of the Madsen soil grid. Secondary targets include the area between the adit and Madsen soil anomaly, the slope north of Watson Bar Creek and known veins on the west end of the alteration zone north and west of the BHP drilling.

#### 3.1 RECOMMENDATIONS / PROPOSED BUDGET

A 2-staged program is recommended; an early spring, stage 1 program would involve mostly surface evaluation work including hand or machine trenching and cost about \$160,000. Stage 2 is largely a phased drill program at a total cost of \$400,000.

#### Stage 1

- Compile historical, geological and geochemical data onto a common base.
- Map, rock sample and fill-in sample the Madsen Grid, trench known and new anomalies. Fill-in lines should be 50 m apart; soils at 25 m intervals.
- Map vein attitudes in the adit area to help evaluate their strike and dip potential and design a suitable drill test; relog drill core.
- Evaluate massive sulphide and quartz veins in upper Watson Bar Creek; map and contour soil sample the slope northwest of the adit.
- Hand or machine trench new targets depending on access costs.

#### Stage 1 Budget

a)	6 km line cutting @ \$250/km	1500	
	5 km line brushing out @ \$100/km	500	2000

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b)	Mapping/ soil and rock sampling	• • • • • •	
	60 crew days @ \$400/day	24,000	
	60 geologist days @ \$500/day	30,000	
	Analyses	10,000	64,000
c)	IP 10 line km @ \$1000/day	10,000	
,	Mag 25 line km @ \$100/day	2500	12,500
d)	Trenching		
u)	Road construction/rehab	12,000	
	Excavator 85 hrs @ \$80/hr	6,800	
	14 geologist days @\$500/day	7,000	
	30 blasting crew days@\$400/day	12,000	
	Analyses	12,000	39,000
	Analyses	1200	39,000
e)	Accommodation/supplies/transport		
,	300 man days @ \$75/day	22,500	22,500
f)	Plotting/interpretation/reporting	5000	5000
~)	Contingonov	15.000	15 000
g)	Contingency	15,000	15,000
	TOTAL		\$160,000

Stage 2 would start in mid summer and involve initial phase (stage 2A) of machine trenching and drilling (1200 m); stage 2B targets are contingent on stage1and 2A results; total cost of stages 2A and 2B is \$400,000.

#### Stage 2A

- Construct access roads and machine trench where appropriate.
- Drill test the strike and dip extensions of the adit area vein or breccia/silicified zones.
- Drill test the Madsen soil anomaly and newly defined targets as warranted.

#### Stage 2A Budget

a)	Road construction	10,000	10,000
b)	Diamond drilling/geological Support/assaying 1200m @ \$125/m	150,000	150,000

	TOTAL 2A		\$200,000
e)	Contingency	15,000	15,000
d)	Mob/demob drill rig	10,000	10,000
c)	Plotting/interpretation/reporting/ Filing work; 30 days @ \$500/day	15,000	15,000

# Stage 2B

• Drill test the most significant targets based on Stage1and 2A results.

# Stage 2B Budget

a)	Diamond drilling/geological Support/assaying 1600m @ \$125/m	200,000	200,000
	TOTAL 2B		\$200,000
	TOTAL 2A and 2B	<u></u>	\$400,000

#### APPENDIX A

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#### APPENDIX B

#### **CERTIFICATE**

I, Ronald M. Britten, of 3525 West 26<sup>th</sup> Avenue, Vancouver, B.C., V6S 1N6, certify that:

- 1. I am a graduate (1974) of the University of British Columbia with a Bachelor of Applied Science in Mineral Exploration. I was awarded a Ph.D. by the Australian National University, Canberra, Australia in 1982.
- 2. I have been fully employed as a mineral explorationist for 20 years in Canada, the South Pacific, South America and the United States and based in Vancouver, British Columbia for the past 14 years.
- 3. I am a registered member in good standing of the Association of Professional Engineers of British Columbia.
- 4. The work described in this report was carried out directly by me or under my supervision.
- 5. I am an officer of First Point Minerals Corp., where I am the Vice President of Exploration and hold a share interest in the company.

Dated in Vancouver, British Columbia, this 30th day of January 1997.

Ronald M. Britten, Ph.D., P.Eng. Vice President of Exploration

## APPENDIX C

### **1996 STATEMENT OF EXPENDITURES**

#### Personnel

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**1** 

	Geologist	R. Britten 9 days @ \$500/day Oct.10 to 18	\$ 4,500
	Technician	C. Leith 25 days @ \$100/day Oct 1 to 25	\$ 2,500
Food and Accom	modation		\$ 175
Consulting Servic	es - Durfeld Geological N	tanagement Ltd	
_		Oct 1 to 24, see attached invoice	\$ 16,571
Transportation		Truck Rental @ \$50/day, Oct 10 to 18,	\$ 450
·		Vehicle operating costs	\$ 155
Analyses			
,	Soil Samples	454 samples @ \$14.78/sample	\$ 6,712
	Silt Samples	9 samples @ \$18.00/sample	\$ 162
	Rock Samples	28 samples @ \$20.50/sample	\$ 574
Maps, Photos, Pu	ublications, Field Supplies		\$ 1,025
Computer Draftin	g		\$ 1,000
Report Writing		R. Britten 7 days @ \$500/day	\$ 3,500
TOTAL			\$ 37,324

### APPENDIX D

### GEOCHEMICAL ASSAY CERTIFICATES

- SOIL SAMPLES
   SILT SAMPLES
- 3. ROCK SAMPLES



### iPL 96J1119

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1 Phone (604) 879-7878

ingt point Control C-	monstian	160	Come	100		0	160 0-11	0. 0 0.0	C C+ 0 D-1-		<pre>(604) 879-7 [111917:49:3</pre>	
irst Point Capital Co t: Nov 08, 1996 Project: None G	poration		Samp.			U= Rock	: 168= Soil - 00Mon/Dis	0= Core	C Ct 0= Pulp	0=Other	Mon=Month	
			law Stor								Rtn=Return	
: Oct 29, 1996 Shipper: Ron Br		ŀ	Pulp Stor	rage:			- 12Mon/Dis				ktn≑keturn	Arc=Arcniv
#: Shipment:	ID=C040901	Amo le	. L	ı c.								
g: Au(AqR/Ext/AAS 10g) ICP(AqR)30		Analy						·· ·	C)		·····	
g:		## Code		itle l			Jnits Descript	tion	Element	##		
ocument Distribution -			hod			High						
First Point Capital Corporation	EN RT CC IN FX			Au		10000	ppb Au AqR/E	Ext/AAS 10g	Gold	01		
2170 - 1050 W. Pender Street	1 2 2 2 1	02 721P	1CP	Ag		100	ppm Ag ICP		Silver	02		
lancouver	DL 3D 5D BT BL	03 711P	ICP	Cu		20000	ppm Cu ICP		Copper	03		
3C V6E 3S7	0 0 0 1 0	04 714P	ICP	РЬ	2	20000	ppm Pb ICP		Lead	04		
Canada		05 730P	ICP	Zn	1	20000	ppm Zn ICP		Zinc	05		
	Ph:604/681-8600	-										
	Fx:604/681-8799	06 703P	ICP	As	5	9999	ppm As ICP	5 ppm	Arsenic	06		
		07 702P	ICP	Sb			ppm Sb ICP		Antimony	07		
		08 732P	ICP	Hg	3	9999	ppm Hg ICP		Mercury	08		
		09 717P	ICP	Mo	1	9999	ppm Mo ICP		Molydenum	09		
		10 747P	ICP	ΤÎ	10	999		0 ppm (Incomplet	0	10		
		10 747	10-		10	333	ppin i tor i	ro ppin (Tricompret				
		11 705P	1CP	Bi	2	999	ppm Bi ICP		Bismuth	11		
		12 707P	ICP	Cd	0.1	100	ppm Cd ICP		Cadmium	12		
		1										
		13 710P	ICP	Co	1	999	ppm Co ICP		Cobalt	13		
		14 718P	ICP	Ni	1	999	ppm Ni ICP		Nickel	14		
		15 704P	ICP	Ba	2	9999	ppm Ba ICP (	Incomplete Diges	t Barium	15		
		16 727P	ICP	W	5	999	oom W ICP (	Incomplete Diges	t Tunasten	16		
		17 709P	ICP	Cr	1	9999		Incomplete Diges		17		
		18 729P	ICP	v	2	999	ppm V ICP	indomproto bigeo	Vanadium	18		
		19 716P	ICP	Mn	1	9999	ppm Mn ICP		Manganese	19		
		20 713P	ICP	La		9999		Incomplete Diges		20		
		20 7131	101	<u> </u>	4	5343		Theorip recerbinges	e Earrenariain	20		
		21 723P	ICP	Sr	1	9999	ppm Sr ICP (	Incomplete Diges	t Strontium	21		
		22 731P	ICP	Zr	1	999	ppm Zr ICP	. , 2	Zirconium	22		
		23 736P	ICP	Sc	1	99	ppm Sc ICP		Scandium	23		
		24 726P	ICP		0.01			Incomplete Diges		24		
		25 701P	ICP		0.01			Incomplete Diges		25		
		20	10.									
		26 708P	ICP	Ca	0.01	9.99	% Ca ICP (	Incomplete Diges	t Calcium	26		
		27 712P	ICP	Fe	0.01	9.99	% Fe ICP		Iron	27		
		28 715P	ICP	Mg	0.01	9.99	% Mg ICP (	Incomplete Diges	t Magnesium	28		
		29 720P	ICP		0.01			Incomplete Diges		29		
		30 722P	ICP		0.01			Incomplete Diges		30		
		21 7100	*00	~	o o	5 00	Ø D I CD			21		
		31 719P	ICP	٢	0.01	5.00	%P ICP		Phosphorus	31		
1												
		1										

EN=Envelope # RT=Report Style CC=Copies IN=Invoices FX=Fax(1=Yes 0=No) DL=DownLoad 3D=3-1/2 Disk 5D=5-1/4 Disk BT=BBS Type BL=BBS(1=Yes 0=No)

### CERTIFICATE OF ANALYSIS iPL 96J1119

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1

roject:	First Point C None Given	16	8 Soil		า 	11/1:	96J11				t: Nov n: Oct			[	1191	0:22:	46:69	Page 911089					n 1 o Assa		David	Chiu	_f	Æ
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International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3F1 Ph:604/879-7878 Fax:604/879-7898

## CERTIFICATE OF ANALYSIS iPL 96J1119

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1

	: First Point : None Given	•	Corpo 8 Soil		ר	iPL:	96J11	19			t: No n: Oc				[11	1910	):22:4	47:69			of t				l o Assa			l Chiu	_]	A
ample N	Name		Au ppb	∧g ppm	Си ррт	ррт РЬ	Zn ppm	As ppm	Sb ppni	Hg ppm		TT ppm pg					8а рртгр	W mqc	Cr ppm		Mn ppm	La ppm	Sr ppm	Zr ppm		Ti %	A] %	Ca X	Fe X	
1+50E	16+25N	S	<	0.3	67	11	71	47	<	<	5	`.<	<	<	20	53	184	<	41	81	474	13	87	12	8 0	. 08	2.45	0.79	4.05	1.1
	16+50N	S		0.4	42	11	93	27	<	<	4	<	<	<	14	31 (	198	<	33	57	502	8	53	9	60	.07	2.07	0.57	3.23	0.6
	16+75N	S		0.2	51	13	81	36	<	<	4	<	<	<	17	39	172	<	39	73	408	10	66	9	70	.07	2.37	0.66	3.97	0.8
	17+00N	S		0.1	53	14	79	42	<	<	5	<	<	<			194	<	37	69	433	13	63	9	80	.07	2.06	0.59	3.83	0.7
1+50E	17+25N	S	<	0.1	49	12	73	36	<	<	4	··.<	<	<	16	42	190	<	41	74	427	13	65	13	70	.07	2.20	0.64	3.58	0.8
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+50W	12+50N	S	<	<	65	10	83	95	<	<	6	<	<	<	16	39 🗍	173	5	41	74	357	9	60	13				0.56		
+50W	12+75N	S	<	<	60	9	76	79	<	<	4	<	<	<	17	44	171	<	46	74	379	13	68	17				0.70		
+50W	13+25N	s	<	<	66	12	90	29	<	<	5	<	<	<	21	66	194	<	54	81	585	11	80	13	80	.09	2.38	0.94	4.14	1.3
+50W	13+50N	Ś	<	<	79	8	98	108	<	<	5	<	<	<	14	29 🕺	132	<	32	83	280	7	62	7				0.72		
	14+00N	Ś	<	<	49	13	84	53	<	<	5	<	<	<	19	50 🔅	151	<	52	71	436	14	57	15	80	.09	2.11	0.56	3.80	0.8
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+50W	15+00N	S	<	<	56	12	81	68	<	<	5	<	<	<	17	47 🖇	174	<	49	79	453	.13	66	12	80	. 09	2.27	0.59	3.87	0.8
+50W	15+25N	Ŝ	5	<	53	12	77	66	<	<	4	<	<	<	15	38 🖗	166	~	43	81	382	11	58	11	90		2.38		3.97	
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	15+75N	S	12	<	90	11	84	128	<	<	5	11 B.C.A.	<			43 🖉		<		102	635	12	72	8	12 0	. 06	2.34	0.92	4.60	1.0
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	16+25N	S S	<	<	47	14	81	36	<	<	5	<	<	<		2.2	187	~	41	63	458	11	61	13	7 0.	. 08	2.02	0.54	3.47	0.6
	16+75N	ş	20	<	54	13	79	44	<	<	5	<	<	<		- i .	182	<	47		481	13	72	14			2.14		3.88	
	17+00N	S	11	<	46	10	84	41	<	<	5	a data da	<	<			181	<	40		493	11		10				0.64		
	17+25N	S	6	<	66	10	74	31	<	<	5	- 2 - 2	<				160	<	51		441	14		15				0.73		
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	17+75א	S	<	<	70	14	92	28	<	<	5	<	<			72 👸		<	56	82	670	15	97	15	80.	. 11	2.67	1.02	4.15	1.6
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	15+25N	S,	10	<	53	13 ្ល	89	42	<	<	5	<	<				199	<	33		595	12	64				2,09	0.70		
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	15+75N	Ş	<	<	43	10	85	40	<	<	3	<	<	< `		40 🕃		<				14	65					0.64		
	16+00N	ş	<	<	37	13	103	30	<	<	4	<	<		17 :	22.	Children .		42	63	460	10						0.53		
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+50E		ŝ	<	<	40	8	110	29	<	<	4	<	<	< .	16	34 🔮	218		40		390	11	57	9				0.56		
	16+75N	Ş	<	<	42	11	88	30	<	<	4	9996	<		14					63		11	49	10				0.50		
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---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate International Plasma Lab Ltd. 2036 Columbia St. Vancouver RC V5V 3E1 Ph-604/879\_7878 Eax+604/879\_7898



### CERTIFICATE OF ANALYSIS iPL 96J1119

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1

Phone (604) 879-7878

Client: First Point ( roject: None Given		-Corpo 8 Soil		n	iPL:	96J11	19			it: Nov n: Oct	-		Ľ	1119	10:22:	48:6	Page 9110896					n lo C'Assa			Chiu	_}	41
ample Name		Au ppb	Ag ppm	Си ррт	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm		TI Bi pm ppm					W ppm	Cr ppm pp	V Mi m ppi	-		Zr ppm		Ťi %	A1 %	Ca %	Fe %	
2+50W 12+50N	S	25	<	144	9		275	6	<	6	< <		< 19	35	179	<	36 11	4 39	7 110	) 78	7	16 (	0.08	2.42	0.69	5.01	0.9
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International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3F1 Db-604/870\_7878 Env-604/870\_7878



iPL 96J1119

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1

INTERNATIONAL PLASMA LABORATORY LTU Client: First Point Capita First Noro Cirry 16			n	iPL:	96J11	19			t: Nov 08.			ſ,	1101	0.22.	40-61		4	of				1 of	2	04) 879	-7898	
roject: None Given 16 	58 Soil ——— Au ppb	Λg ppm	Сu ppm	РЬ ррт		As ppm	Sb ppm	Hg	n: Oct 29. Mo 11 ppm ppm j	Bi	Cd	 Co	Ni	0:22:    ppm	 Ж	Cr	v	Mn ppm	La		Zr	CAssaye Sc T ppm 2		Ca	Fo Fo	
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1+50E 16+25N Š	<	<	65	10	75	37	<	<	5 <	<	<	18	47	202	<	41	84	490	14	76	11	9 0.0	2.55	0.81	4.0€	1.09
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5+50E 17+00N Š	<	<	84	14	78	106	<	<	6 <	<		19		156	<	35	85	698	8	231	7	9 0.09	2.39	4.36	3,68	1.49
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International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



### iPL 96J1119

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1

lient: First Point oject: Nome Given		Corpc 58 Soil			iPL:	96J11	19				v 08, t 29,			[1119	910:22	:50:6			of S		Sectified	tion d BC	1 of Assaye	2 r: Davi	d Chiu	_Ĵ	A
mple Name		Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm		TI B ppm pp		Col Ca Dana ppa			W ppm		V ppm	Mn ppm	La ppm		Zr ppm p		i A Z Z		Fe %	Mg %
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# CERTIFICATE OF ANALYSIS

iPL 96J1092

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1 Phone (604) 879-7878 Fax (604) 879-7898

INTERNATIONAL PLASMA LABORATORY LTD

Client: First Po Project: Nome Giv			1 Corpo 86 Soii		วก	iPL	.: 96ú1	092				: Nov : Oct				(10	9217:	37:2		<sup>v</sup> age 10196			Cert		tion 1 1 BC As			04)87 d Chi		Ê	\$R
Sample Name	ν Δαq	Λg ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm		TT ppm				Ni ppm	Ba ppm		Cr ppm		Mn ppm	La ppm		Zr ppm		Ti Xa	A1 X	Ca Z	Fe X				a P <b>z z</b>
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L0+50E 7+00N S L0+50E 7+75N S L0+50E 8+00N S L0+50E 8+25N S L0+50E 8+50N S	< < < <	~ ~ ~ ~ ~	135 243 158 256 188	6 3 6 3 5	99 52 50 59 76	122 138 126 233 142	< < < < <	~ ~ ~ ~ ~	4 5 4 5 8	V V V V	~ ~ ~ ~ ~	< < <	20 16 16 18 24	28 30	266 150 150 205 201	< < < < <	30 31 33 32 27	102 107	763 332 374 398 672	12 11 12 10 12	134 85 76 86 88	4 4 5	14 15 14	0.09 0.10 0.08	2.30 2.43 2.43 2.39 1.90	0.72 0.69 0.71	4.50 4.32 4.79	0.86 0.86 0.90	0.27 0.36 0.30	0.0	9 0.05 0 0.03 2 0.05
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iPL 96J1092

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Sample	Name	Лu ppb	Ад ррт	Cu ppm	Pb ppm	Zn ppm	Λs ppm	Sb ppm	Hg ppm		רד היקק							Cr ppm p			La ppm	Sr ppm			⊤i %	۸1 ۲	Ca <b>X</b>	Fe X	Mg X	K 7		
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--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3F1 Ph:604/879-7878 Fax:604/879-7898

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# CERTIFICATE OF ANALYSIS

iPL 96J1092

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1 Phone (604) 879 -7878 Fax (604) 879 -7898

Client: First roject: None				Corpo 6 Soil		n	iPL	: 96J1	1092			.: Nov n: Oct				[109	9217:	37:2		age 10196			Cert			of 1 sayer:		d Chi	u	<u>1</u>	<u>}                                    </u>
ample Name		Au pb	Ag ppm	Cu ppm	РЬ ррт	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo Tì ppntppnt		Cđ ppm	Co ppm		Ba ppm p	W pm	C <del>r</del> opm	V ppm	Mn ppm	La ppm	Sr ppm		Sc ppm	Ti %	A1 %	Ca <b>%</b>	Fe <b>%</b>	-			
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2036 Columbia Street Valicouver, B.C. Canada V5Y 3E1 Phone (604) 879-7878 ( Fax (604) 879-7898 (

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2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1 Phone (604) 879-7878 Fax (604) 879-7898

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L8+50W 8+75N \$ L8+50W 9+00N \$ L8+50W 9+25N \$ L8+50W 9+50N \$	< < < <	< < < <	45 29 27 27	10 12 12 11	79 66 100 76	33 32 34 37	< < < < <	< < < <	3 < 3 < 2 < 2 <	< < < <	< < <	14 12 15	29 33 32 15	130	< < < < <	32	72 57	283 337	10 8	77 63	17 11	80. 60.	.11 .10	3.05 2.98 2.72 3.52	0.66 0.65	3.46 3.11	0.70	0.13 0.17	0.03	0.02
· · · · · · · · · · · · · · · · · · ·	9999 FAAA Insuff	ICP icient	ICP t Sampl	ICP e S	_ICP =Soil↓	icp R=Roci	ICP k <b>C=Co</b>	ICP re L:	9999 999 9 ICP ICP Silt P=P	999 9 LCP ulp 1	99 <b>.</b> 9 ( ICP ( U=Unde	999 ICP efin	ICP	ICP I m=Est	99 9 CP imat	ICP I e/100	CP 00 7	ICP Est	ICP	9999 ICP	ICP	99 1. ICP 1	.00 ICP	ICP	9.99	9.99	9.99	9.99	5.00	5.00



iPL 96J1092

2036 Columbia Street Vancouver, 8.C. Canada V5Y 3E1

INTERN	ATIONAL PLASMA	ABORATO	חדו אפו										-	200												Pt	inada V Ione (60	04) 879	9-7878		/
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9+50W 9+50W 9+50W	11+25N Š 11+50N Š 11+75N Š 12+00N Š 12+25N Š	< < < < <	~ ~ ~ ~ ~	29 31 30 34 36	10 11 11 13 9	121 70 100 88 72	42 43 38 48 47	< < < < <	< < < < < <	2 2 2	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	< < <		32 29 29		<	40	76 75 86	479 361 573 457 383	9 8 9 11 9	101 74 90	12 21	8 8 11	0.11 0.12 0.14	3.28 3.02 3.89	0.72 0.93 0.78 0.91 0.96	3.74 3.66 4.35	0.90 0.76 0.92	0.11 0.21 0.20	0.04 0.04 0.04	0.0
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in Limi ax Repo ethod -=No Te	rted*	9999 FMA Insuff	ICP icient	: Sampl	ICP e S	ICP ≔Soil	ICP R=Rocl	ICP k C=Ca	ICP one La	9999 99 ICP 10 =Silt F	Σ Σ=Pulp	99.9 ICP U=Un	999 ICP defir	999 9 ICP (	9999 ICP m=Es	ICP timat	ICP te/10	999 9 ICP 00 7	ICP <b>Z</b> =Est	ICP	ICP	999 ICP	99 ICP	1.00 ICP	9.99 ICP	0.01 9.99 ICP	9.99	9.99	9,99	5.00	5.0



### iPL 96J1092

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1 Phone (604) 879-7878

Project: N	None Giv	en		6 Soi	r 							n: Oct	- 22,	139				37:3	1:091	10196			Certifie	su pc	Assayer				Æ	4
Sample Nam	ne	Аи ррђ	Ag ppm	Си ррт	Рb ррл	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo Ti ppm ppm			Со ррт		Ва ррт	₩ ppm	Cr ppm	V ppm	Mn ррт	La ppm	Sr ppm		Sc T <sup>-</sup> ppm 7		i Ca Z Z	Fe %	Mg %	۲. ۲	Na Z	
_9+50W 14 _9+50W 15 _9+50W 15 _9+50W 16 _9+50W 16	1+00N \$ 1+25N \$ 1+50N \$ 5+50N \$ 5+75N \$ 5+75N \$ 5+00N \$ 5+25N \$ 5+25N \$	6	0.1 0.1 0.1	40 44 57 45 42 52 66 64 70 36	11 9 10 11 10 10 10 10 8 7	97 89 97 91	48 45 47 48 31 54 49 51 47 29	< < < < < < < < < < < < < < < < < < <	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	1 < 1 < 2 < 1 < 2 < 2 < 2 < 2 < 2 < 2 < 2 < 2	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	< < < < < < < < < < < < < < < < < < <	20 21 17 20 23	53 54 65 61 68	48 48 237 44 38 136 182 207 171 51	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	33 34 40 45 54 47 51 46 43 36	84 76 103 87 77 77 70 68	836 776 570 653 669 745 696	8 8 12 8 7 11 14 14 12 6	94 106 115 95	11 10 14 23 12 10 14 12 11 8	8 0.15 7 0.11 10 0.21 8 0.12 8 0.12 8 0.11 7 0.09 7 0.09	5 2.6 2.3 3.4 2.5 2.3 2.4 2.3 2.4 2.3 2.4 2.3 2.2	1         2.76           7         3.43           6         2.60           8         1.00           4         1.33           2         1.47	3.30 3.46 3.80 3.11 3.59 4.01 3.97 3.73	1.37 1.44 1.76 1.44 1.11 1.35 1.34 1.32	0.07 0.10 0.07 0.07 0.20 0.20 0.17 0.17	0.04 0.10 0.05 0.03 0.05 0.06 0.06 0.06	0.0 0.0 0.1 0.1 0.1 0.1
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5 0.1 2 Min Limit 1 Max Reported\* Method ---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 Z=Estimate Z Max=No Estimate Totomostional Discussional Discussion Laboration St. Vancourses RC V/SV 351 Db-604/070 7070 Estimate Z Max=No Estimate



### iPL 96K1133

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1 Phone (604) 879-7878 Fax (604) 879-7898

INTERNATIONAL PLASMA LABORATORY LTD.											F	ax (604) 879-7	7898
In : Nov 01, 1996 Shipper: Ron B	Given MA <b>b/703</b> . ritten	R	Samp aw Stor ulp Stor	age:	03		9= Soil 00Mon/Dis 12Mon/Dis	0= Core 0  	0=RC Ct 0=	Pulp 	0=0ther 	Mon=Month	00:69110796 Dis=Discar Arc=Archiv
PO#: Shipment: Msg: Au(FA/AAS 30g) ICP(AqR)30	ID=C040901	<sub>[</sub> Analy	tical	l Su	າພພະ	ry—							
Msg:			Met Ti		imit	Limit U	hits Descript	ion	Element		##		
Document Distribution 1 First Point Capital Corporation	EN RT CC IN FX	01 313P	hod Faaa	Au		High 9999	ppb Au FA/AA	S finish 30a	Gold		01		
2170 - 1050 W. Pender Street	1 2 2 2 1	02 364PF			See Da		g/mt Au FA/Gr		Gold		02		
Vancouver	DL 3D 5D 8T BL	03 721P	ICP	Ag	0.1	100	ppm Ag ICP	-	Silver		03		
BC V6E 3S7	0 0 0 1 0	04 711P	ICP	Cu		20000	ppm Cu ICP		Copper		04		
Canada ATT- Dec Britter	Ph:604/681-8600	05 714P	ICP	Pb	2	20000	ppm Pb ICP		Lead		05		
ATT: Ron Britten	Fx: 604/681-8799	06 730P	ICP	Zn	1	20000	ppm Zn ICP		Zinc		06		
	1 X. 00 1/ 001 0/00	07 703P	ICP	As		9999		5 ppm	Arsenic		07		
		08 702P	ICP	SЬ	5	9999	ppm Sb ICP		Antimony		08		
		09 732P	ICP	Hg		9999	ppm Hg ICP		Mercury		09		
		10 717P	ICP	Мо	1	9999	ppm Mo ICP		Molydenum	1	10		
		11 747P	ICP	τı	10	999	pom T1 ICP 1	0 ppm (Incomp)	lete Thallium		11		
		12 705P	ICP	Bi	2	999	ppm Bi ICP		Bismuth		12		
		13 707P	ICP	Cd	0.1	100	ppm Cd ICP		Cadmium		13		
		14 710P	ICP	Со	1	999	ppm Co ICP		Cobalt		14		
		15 718P	ICP	Ni	1	999	ppm Ni ICP		Nickel		15		
		16 704P	ICP	Ba	2	9999	ppm Ba ICP (	Incomplete Dig	gest Barium		16		
		17 727P	ICP	W	5	999	ppm W ICP (	Incomplete Dig	gest Tungsten		17		
		18 709P	ICP	Cr	1	9999	ppm Cr ICP (	Incomplete Dig			18		
		19 729P	ICP	V	2	999	ppm V ICP		Vanadium		19		
		20 716P	ICP	Mn	1	9999	ppm Mn ICP		Manganese		20		
		21 713P	ICP	La	2	9999	ppm La ICP (	Incomplete Dig	gest Lanthanum	1	21		
		22 723P	ICP	Sr	1	9999		Incomplete Dig			22		
		23 731P	ICP	Zr	1	999	ppm Zr ICP		Zirconium	I	23		
		24 736P	ICP	Sc	1	99	ppm Sc ICP	T	Scandium		24		
		25 726P	ICP	Ti	0.01	1,00	% 11 ICP (	Incomplete Dig	gest litanium		25		
		26 701P	ICP	A1	0.01	9.99		Incomplete Dig			26		
		27 708P	ICP		0.01	9.99		Incomplete Dig			27		
		28 712P	ICP			9.99	% Fe ICP		Iron		28		
		29 715P	ICP			9.99		Incomplete Dig			29 30		
		30 720P	ICP	ĸ	0.01	9.99	% K 10P (	Incomplete Dig	jest Potassium		30		
		31 722P	ICP	Na	0.01	5.00	% Na ICP (	Incomplete Dig	gest Sodium		31		
		32 719P	ICP	Ρ	0.01	5.00	% P ICP		Phosphoru	s	32		
I													

EN=Envelope # RT=Report Style CC=Copies IN=Invoices FX=Fax(1=Yes O=No) DL=DownLoad 3D=3-1/2 Disk 5D=5-1/4 Disk BT=BBS Type BL=BBS(1=Yes O=No)



### CERTIFICATE OF ANALYSIS

### iPL 96K1133

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1

INTERNATIONAL PL Client: Firs: Project: None		pital Co	orpora		il	PL: 96	K1133						1996 1996		[113	317:	30:0	F 0:691						ion 1 o BC Assa	f <sup>Fax</sup>	(604)	879-787 879-789 Miu		de
Sample Name	Au ppb	Au g/mt	Ag ppm	Cu ppm	РЬ ppm	Zn opm	As ppm	Sb ppm	Hg ppm	Мо ррт	T1 ppm p	Bi ppm	Cd ppm	Co l ppm p	Nii pm	Ba ppm	W ppm	С <del>г</del> ррт	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm p	Sc Ti opm <b>Z</b>	۵۱ <b>ت</b>	Ca X	Fe X	Mg X	k 7
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Mad 4+00N	<u>Ś</u> 4		<	23	13	69	275	<	< 🤅	3	<	<	0.2	14 🕅	21	35	<	30	66	652	6	97	4	5 0.08	2.10	2.06	2.96	1.19	0.0
Mad 6+00N	Ŝ 14		<	40	9	77	159	<	<	5	<	<	<	17 🕄	27	61	~	30	71	695	7	146	3	6 0.04	1.61	1.99	3.37	1.14	0.0
Mad 8+00N	Š 22		<	71	9	80	156	5	<	5	<	<	<		31	68	<			800	8	121	2	8 0.04	1.69	1.52	4.07		in a dan da
Mad 10+00N	S 62		<	221	8	72	634	11	<	7	<	<	<	29	26	136	<	20	100	873	7	322	2	12 0.02	1.47	3.48	5.46	1.11	0.1
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## CERTIFICATE OF ANALYSIS

iPL 96K1133

2036 Columbia Street

Vancouver, B.C. Canada V5Y 3E1

				Canada V5Y 3E1 Phone (604) 879 -7878 ()	1
INTERNATIONAL PLASMA LABORATORY LTD. lient: First Point Capital Corporation oject: None Given 10 Soil	iPL: 96K1133	Out: Nov 07, 1996 In: Nov 01, 1996	Page 1 of 1 [113317:30:00:69110796]	Env (604) 070 7000 V	K
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d 6+00N Š0.040.07 d 8+00N Š0.060.08					
d 10+00N \$ 0.13 0.08					
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1 16+00N \$ 0.10 0.08					
1 18+00N \$ 0.08 0.08					
19+00N \$ 0.03 0.07					
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18+00 NH 14 50 4	5,658,000 N	
148-151 X 17+00 N X145 0	5,658,000 N 5,658,000 N 5,759,000 N 5,759	
14 00 N + 13+00 N + 12+00 N + +		10 5,657,000 N 10 10 10 N 10 N
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× 131		$8 \neq 00 N$ $7 \neq 00 N$ $6 \neq 00 N$ $6 \neq 00 N$ MAD Property
	6+50 E +50 E +50 E	S+00 N Rock Sample Sites

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# Rock Sample Descriptions - MAD PROPERTY - 1996

Sample ID	Date	Sample Type	Easting North	ing Description
96RMB72	28-Aug-96	grab		Strongly silicified wacke/siltstone with
	-	-		disseminated pyrite (1%).
96RMB73	28-Aug-96	grab		020/65 NE dipping, .5m wide, bladed
	Ų	U		crystalline calcite vein/breccia zone.
96RMB74		grab		
		·		Quartz matrix breccia in wacke, 1-2 m wide.
96RMB92	08-Sep-96	float		Strong quartz-carbonate-sericite altered
	·			sediment cut by milky white quartz-carbonat
				veins.
96RMB93	08-Sep-96	float		Same as above.
96RMB94	08-Sep-96	grab		White, stongly silicified-sericitized QFP
		0		(quartz feldspar porphyry), diss/clots py
96RMB124	11-Sep-96	grab/chip		QFP with cb-qt viets.
96RMB125	11-Sep-96	grab/chip		Strong gt-cb altered ss or wacke or QFP
001 1110 120		3. <b></b>		hybrid; brick red stain local after Fecb cut by
				milky white guartz-carbonate veins.
96RMB126	11-Sep-96	grab/chip		0.5m wide shear zone at the QFP/wacke
0011112120		9. •••• ••••P		contact.
96RMB127	11-Sep-96	grab/chip		Anastomosing moderate to shallow SW
0011110121	11 000 00	9		dipping graphitic shears with strong foliation
				in mudstone/siltstone.
96RMB128	11-Sep-96	grab/chip		3 main shears in graphitic mudstone.
96RMB129	11-Sep-96	grab/chip		Strong cb-weak chl altered QFP cut by qt
301 (MD 123		grabiomp		vlets and pods and pyrite fractures; unknow
				grey mineral.
96RMB130	12-Sep-96	HS		Msv green-grey-white wacke, weak cb, non
301 (MID 100	12 000 00			magnetic.
96RMB131	12-Sep-96	grab/chip		Msv brown-black slst, thin laminated to thick
SOLUMB TO I	12 000 00	gradiantp		bedded with light brown sandy bases; cross
				bedded.
96RMB132	12-Sep-96	grab		White subcrowded medium grained, feldspa
901/10192	1z-0ep-90	giao		porphyritic sill; rare qt eyes.
96RMB133	12-Sep-96	HS	· · · · · · · · · · · · · · · · · · ·	White to brown thin bedded turbidites.
96RMB134	12-Sep-96	HS	· · · ·	Green massive wacke; no discernable
301 (1410 104	12-000 00	110		bedding; blocky, locally friable.
96RMB135	13-Sep-96	HS	<u></u>	Unaltered wacke.
96RMB136	13-Sep-96	HS	- <u> </u>	Msv hard dark andesite? Crushed zone 2m
901 (WD 100	10-0ep-00	10		thick contains qt vlets and strong foliation.
96RMB137	13-Sep-96	HS		Speckled white to dark granite.
96RMB137 96RMB138	13-Sep-96	 grab		Pale grey colored to white granite;
	12-26h-90	yrau		disseminated pyrrhotite (1-2%), trace vfg
				pyrite and chalcopyrite.
96RMB139	13-Sep-96	HS		Conglomerate with intrusive cobbles; strong

96RMB140	14-Sep-96	HS	Hb qt microdiorite; moderate epidote, weak calcite, weak magnetite.
96RMB141	15-Sep-96	HS	Conglomerate with pebbles of black silicified material, qt veins, carbonate altered wacke,
			quartzite, argillite, pale green siliceous material and argillite.
96RMB142	15-Sep-96	grab	Very siliceous, pink QFP to aplite.
96RMB143	15-Sep-96	HS	Hard silicified wacke at contact with QFP.
96RMB144	15-Sep-96	HS	Siliceous QFP; quartz and calcite on
	•		fractures.
96RMB145	15-Sep-96	grab	Siliceous QFP.
96RMB146	15-Sep-96	grab	Quartz vein cuts graphitic argillite; 2 to 3 cm
		•	wide
96RMB147	16-Sep-96	HS	Hb feld por;chlorite-quartz-sericite-carbonate
	• •		alteration.
96RMB148	16-Sep-96	grab;SOC	Quartz vein near adit.
96RMB149	16-Sep-96	grab	Soft, black, sheared graphitic argillite
		•	immediately above the quartz vein.
96RMB150	16-Sep-96	grab	Quartz vein pod with scorodite.
96RMB151	16-Sep-96	grab	Quartz vein near adit.
96RMB152	16-Sep-96	grab	
		Ç	Moderate oxidized gossanous material from
			L0+50W; 9+15N: Steve Lerhman sample.
96RMB153	16-Sep-96	grab	Moderate to strongly oxidized gossanous
	1	-	material from L0+60W; 9+15N; Steve
			Lerhman sample.

				<u>i</u>					ł		iP	L 9	961	სფ	39	L								Carakta	avēr. 1 V5¥ 3	() E1 (20. 2020		I
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Sample Name	Au ppb	Aມ g/mt	5	Си ррт	РЬ ррт	Zn ppm	As ppm	Sb ppm	Hg ppm	Мо ррт		Bi ppm	Cd ppm	Со ррт ј		Ba ppm pp	M m I	Cr ppm pp	Mn Spill	La ppm	Sr ppm	 Sc ppm	Ті <b>%</b>	A1 7	Ca X	Fe 7	Mg X	K 72

96RMB 72	Ŕ	9	 0.2	55 91	197	280	17	< 3	<	< 1.7	13 18	67	<	28	39 1032	3 180	2	8 < 0.50	5.99 3.42 2.02 0.14
96RMB 73 96RMB 74	Ŕ	2 5	 < <	20 45 31 29	111 122	22 62	< 7	< 4 < 2	< <	< 0.4 < 0.2	4 7 6 9	67 37	< <	18 29	27 637 72 1082	5 1893 4 580	1 2	3 < 0.28 7 < 0.47	25% 1.67 1.13 0.04 11% 4.18 4.32 0.04

Min Limit 2 0.07 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 Max Reported\* Method ---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898

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Sample Name		Au opb	Au g/mt	Ag ppm	Cu ppm	РЬ ррт	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	τη Ε ppm pr	3i C xm pp	2d C xm pp	o Ni m ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm j	Sc ppm	Ті <b>%</b>	A1 %	Ca Z	F	e Ma	2 Z
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### iPL 96J1091

2036 Columbia Street Vancouver, B.C. Canada V5Y 3E1 Phone (604) 879-7878 Fax (604) 879-7898

#### INTERNATIONAL PLASMA LAGORATORY LTD.

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### CERTIFICATE OF ANALYSIS

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Sample Name	Au ppb	Au g/mt		Cu ppm	РЬ ppm	Zn ppm	As ppm-	Sb ppm	-	Mo T opm ppr				Ni ppm	Ba ppm p	W pm	Cr ppm	V ppm	Mo ppm	La ppm	S <del>r</del> ppm	Zr ppm p	Sc Ti pm ≵		Ca X	Fe Z	Mc	g K <b>X X</b>
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96RMB 129 96RMB 132 96RMB 138 96RMB 142 96RMB 142 96RMB 145	R 12 R 4 R 5 R < R 4		< < < <	<b>C1</b>	3 7 4 3 9	35 2 67 31 45 45	2362 39 41 21 12	73 < 5 <	< < < <	4 2 4 1 4	< < < < < <	0.3 0.1	8 7 5 4 1	9 4 5 3	179 44 70 56 526	<b>~ ~ ~</b> ~ ~ ~	27 41 102 38 63	41 35 16 13 <	794 345	4 8 9 7	250 33 60 62 62	2 5 4 2 2		1.30	107 0.62 0.62 2.12 0.96	2.33 1.75 1.41	0.72	7 0.11 1 0.10
96RMB 146 96RMB 148 96RMB 149 96RMB 150 96RMB 151	R 6 Ř 5050 Ř 980 Ř 3060 Ř 45	5.30 1.23 3.27	1.8	51 45 85 29 1707	5 2516 678 522 9	581 <u>9</u> 326	50 1.6% 9406 3.4% 610	13	< 3 < < <	5 1 4 3 6	: < : < : 2	5.7 5.3 3.4	4 18 4	14 10 23 9 23	105 27 63 25 28	<		94 10 36 11 106	172 504 129	4 2 4 < 5	407 55 182 40 96	2 1 2 1 3	2 <		1.33 3.36 1.15	1.92 3.62 3.07	0.17 0.98 0.21	7 0.10 B 0.12 1 0.13
96RMB 152 96RMB 153	Ř 11m Ř 37	10.60 —	2.5 0.1	79 754	557 8		5.9% 674	82 <	< <	600-ch			9 16		< 63	< 12		21 107			116 236		3 < 12 0.07					

2036 Columbia Street Vancouver, B.C.

5 2 0.07 0.1 1 2 1 Min Limit Max Reported\* Method ----No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P-Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898

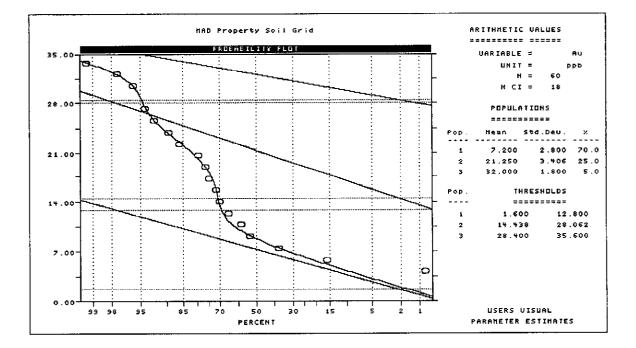
### APPENDIX E

 $\sigma_{1}=2^{2}$ 

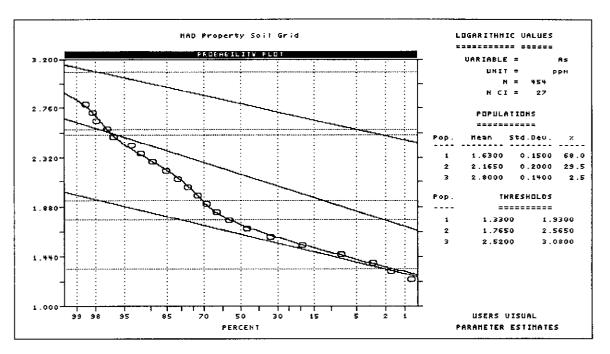
### PROBABILITY PLOTS AND CALCULATION OF THRESHOLDS FOR SELECTED SOIL GEOCHEMICAL DATA

#### **Threshold Selection from Probability Plots**

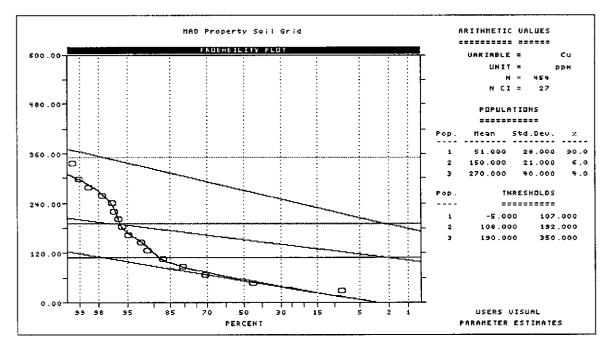
Modeling cumulative frequency curves by combining ideal, normally distributed populations was done to determine thresholds that optimally separate the populations. The underlying assumption being that the statistical populations reflect a geochemical feature that has geological meaning. In the table to the right of the probability plot populations are numbered from the one with the lowest mean value. Population parameters (mean and standard deviation, and the proportion (as percentage) of the combined model are given. Thresholds below this are the mean plus or minus two standard deviations which encloses over 95% of the population. When populations significantly overlap, working thresholds are selected that will minimize the amount of mixing and misclassification. This is often the midpoint between the overlapping mean plus or minus two standard deviation levels.



Based on a model of three component populations 13 and 28 ppm Au were selected to optimally classify samples. Since these thresholds showed many of the samples as spatially contiguous anomalies the thresholds were accepted as useful.



The probability plot was found to work better with the log transformed As values than with the raw data. Population parameters and thresholds in the above diagram are log(As ppm). Based on a model of three component populations 70 and 349 ppm As (based on log(As) 1.8475 and 2.5425) were selected to optimally classify samples. The lower of the thresholds neatly delineates a broad As high. The upper threshold selects samples with a more sporadic dispersion.



Based on a model of three component populations 107 and 191 ppm Cu were selected to optimally classify samples. The upper threshold focuses an anomaly coincident with some of the high Au values. The lower threshold, although identifying more sporadically distributed anomalies, also has some samples with coincident high Au values.