Assessment Report

October 1996- October 1997
for
Diamond Drilling, Geochemistry and Geophysics
on the

HEARNE HILL PROPERTY

OMINECA MINING DIVISION
BABINE LAKE AREA, B.C.

NTS 93-M-1

Latitude 55°11'N

Longitude 126°16'W

VOLUME 1 (OF 5)

Claims Involved

Hearne 1, Hearne 3, Hearne 4, Hearne 8, Hearne 9, BB 1 (Group HH 1)
Hearne 1, Hearne 5, BB 2, BB 3, BB 4, Hearne 10, Hearne 11 (Group HH 2)
Hearne 1, Hearne 5, Hearne 7, Cub 200, Cub 300, Hearne 12, Hearne 13 (Group HH 3)
Hearne 1, Hearne 2, Hearne 6, Cub 100 (Group HH 4)
Hearne 2, Hearne 7, Cub 200, Copper 100, Copper 200 (Group HH 4)
Hearne 2, Hearne 7, Cub 200, Copper100, Copper 200 (Group HH 5)

Owner - Operator

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by

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January 03, 1998

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1.0 SUMMARY AND CONCLUSIONS

1. The Hearne Hill claims of Booker Gold Explorations Limited are situated 65 km north-east of Smithers, in the Babine Lake district of British Columbia.

2. The property is underlain by volcanic rocks belonging to the Lower to Middle Jurassic Hazelton group, which consists principally of water-lain grey lapilli crystal tuffs and grey andesites, with some associated sedimentary rocks. The volcanic sequence has been intruded by a dyke swarm of Biotite Feldspar Porphyry (BFP) bodies which belong to the Tertiary (Eocene) Babine Igneous Intrusive Suite.

3. Copper and gold mineral deposits in the Babine Lake district are associated with the BFP intrusions.

4. At the Hearne Hill property there are two types of copper – gold - molybdenum - silver deposits, as follows:
   a. a stock work porphyry-copper of the general Babine-type;
   b. breccia bodies containing enriched copper-gold mineralization (known as the Chapman and Peter Bland zones) situated within a high-grade core zone of the porphyry deposit.

5. In the BFP intrusions and surrounding Hazleton volcanic country rock, chalcopyrite, pyrite and molybdenite occur as fracture fillings, as disseminations and within stockwork quartz veinlets. The host rocks contain biotite and quartz - sericite alteration. Alteration zoning from fresh unaltered porphyry through propylytic, phyllic and potassic is present within the porphyry.

6. The breccia bodies are situated within and adjacent to the porphyry -copper stockwork. The Chapman and Peter Bland zones are separated by approximately 300 m, have a N 10-30E strike, and appear to dip steeply (70-80°) to the east. The breccias consist of angular clasts up to several tens of centimetres size of BFP and Hazelton volcanics. Open space in the breccia prior to mineralization is estimated at 5 to 20% of rock volume. Chalcopyrite, pyrite and carbonate minerals were deposited in the space between the angular clasts.

7. Drilling of the Chapman breccia by Noranda Mining and Exploration (1989, 1990) intersected 22.9 m of 2.75% Cu, but Noranda concluded that the breccia was cut-off at 70 to 80 metres depth by an intrusion of bleached massive quartz-biotite-feldspar-porphyry.

8. Subsequent drilling of the breccia by David Chapman (1991) indicated that the area of mineralized breccia was more extensive than that indicated by the Noranda drilling. Of the seven holes drilled by Chapman, all intersected mineralized breccia, however only one hole was assayed. This hole contained a 50 m section of 2.3% Cu, and several 3 m sections with 0.4 - 2.0 g/t Au, including one section with 14 g/t Au.

9. Booker Gold's approach to exploration on Hearne Hill, since its acquisition in 1993, has been to explore for further breccia zones and associated high grade mineralization.

Expansion of the high grade core of the deposit and surrounding porphyry stockwork could make the difference between an eventual producing mine and a marginal grade Babine porphyry deposit.

10. Booker Gold's 1994 and 1995 diamond drilling programmes led to the discovery of the Peter Bland zone, a second breccia body of high grade copper-gold-silver mineralization. The Peter Bland zone is situated 300 m north-east of areas investigated by previous exploration programmes.

11. In 1996 and 1997, Booker Gold was successful in extending the Bland and Chapman zones. Trenching of a copper-gold till geochemical anomaly 50 - 100 m west of the Bland zone revealed over 75 m of mineralized (>0.8% Cu) breccia. Drilling proved that this breccia occurrence was in fact part of the Bland zone and extended the zone to the south-west. Drilling in the vicinity of the Chapman zone produced the highest copper and gold grades to date on the Hearne Hill property (17.75% Cu over 1 m, 11.14g/t Au over 3 m), and extended the zone both at depth and to the south-east. The surface expression of the Bland zone is determined to be approximately 100 m by 75 m by a depth of 300 m. The Chapman zone has a surface expression of 75 m by 50 m by a depth of 100 m. The source of a large copper-gold geochemical anomaly 100 m - 300 m west of the Bland zone remains to be found. Trenching in this area uncovered mineralized boulders within deep overburden. Further exploration drilling in this area is recommended.

12. In 1997, Booker Gold conducted an extensive surface trenching mapping and sampling program. Six kilometres of trenches were excavated, exposing approximately 4.3 km of bedrock. The bedrock was sampled and mapped in detailed and used to produce a 1:1000 geological map. Bedrock mapping was also completed at a 1:5000 scale. Approximately 40 km of grid cutlines were walked and mapped in the summer.

13. Booker Gold entered an agreement with Noranda in October, 1997 to operate, with an option to earn 50% of the Morrison property. Between 1963 and 1973 Noranda drilled 95 diamond drill holes totalling 13,890 m. Sixty-five of the holes were drilled with AEX core and 30 with BQ. Most holes were directed at 45 degree angles east or west along section lines 60 m apart and were drilled to a maximum of 250 m. Indicated and inferred resources for the Morrison deposit, using a 0.30% Cu cut-off grade, are estimated to total 190 million tonnes of 0.40% Cu and 0.20 g/t Au to a depth of 300 m. An open pit resource developed on the basis of a 0.75:1 waste to ore stripping ratio and a cut-off grade of 0.30% Cu is estimated at 58 million tonnes of 0.41% Cu and 0.21 g/t Au. Gold grades were estimated using a gold-copper regression equation developed on the basis of 477 pulp composite samples assayed in 1988. The 1988 composite gold grades were significantly lower than composite gold grades obtained in 1967 (0.21 g/t Au versus 0.35 g/t Au; Ogryzlo *et al.* 1994). Booker Gold is planning a drill program on the Morrison property to explore potential high grade (> 0.8% Cu) zones, determine gold, silver, and molybdenum grades, and increase potential mineable reserves.

1.1 SUMMARY OF WORK DONE

Geochemical Surveys - Both property scale and follow-up detailed scale geochemical surveys were completed. The property scale survey totalled 400 samples obtained at a density of 1 sample per 100 square metres. For the detailed scale survey, 89 samples were obtained at a scale of 1 sample per 25 square metres.

Geophysical Survey - A total of 8 kilometres of Induced Polarization (I.P.) lines were surveyed.

Diamond Drilling – 69 NQ diamond drill holes were drilled between October 1996 and October 1997, for a total 15957.20 metres of drilling.

1.2 RECOMMENDATIONS

Recommendations for future exploration and work on the Hearne Hill property are as follows:

1) Exploration drilling of trench targets excavated 300 m west of the Bland zone.
2) Drilling of selected holes near high-grade zones to provide complete coverage for a geostatistical block model.
3) Development of a geological block model taking into consideration varying specific gravities of different rock types.
4) Data base management and quality control review of all assay data for a bankable resource estimate.

The cost estimates are as follows:

Hearne Hill

Drilling (7000 m, NQ), camp costs etc., (Recommendations 1 and 2)	$1,200,000
Block modelling, data base management, etc., (Recommendations 3 and 4)	50,000
Total	**$1,250,000**

2.0 INTRODUCTION

Booker Gold's 100% owned Hearne Hill property, located in the Babine Lake district, central BC, is a low-grade Cu-Au deposit which contains high-grade Cu-Au mineralized breccia bodies. Two former producers and numerous sub-economic porphyry copper deposits are located in the Babine belt, and lie within 20 km of the Hearne Hill property.

This report summarizes the results of work undertaken in the October 1996-1997 assessment year. This year's exploration program focussed on defining the two high-grade breccia zones through diamond drilling and surface work and exploring for new mineralization. Drilling of last year's geochemical and geophysical targets suggest that sulphide mineralization extends along a north-east trend with a partial pyrite halo surrounding a chalcopyrite enriched core.

Results from drilling and exploration by Booker Gold on the Hearne Hill property in 1994 and 1995 are described by Sampson (1996) and the results from the 1996 program are described by Stevenson and Weary (1997).

3.0 PROPERTY, LOCATION AND ACCESS

The Hearne Hill property is situated as follows (Figure 1):

Latitude	Longitude	Average Elevation	NTS
55^0 11'N	126^0 16'W	3600 ft. (1100 m)	93-M-1

The property consists of the following claims (Figure 2):

Claim	Tenure No.	Units	Expire Date
CUB 200	341509	20	October 13 2002
Copper 100	341512	20	October 13 2002
Copper 200	341511	20	October 13 2002
Hearne 1	242812	15	October 7 1999
Hearne 2	242813	15	October 7 1999
Hearne 3	347037	20	June 20 2002
Hearne 4	347038	12	June 20 2002
Hearne 5	347039	18	June 18 2002
Hearne 6	347040	12	June 20 2002
Hearne 7	347041	18	June 20 2002
Hearne 8	347042	9	June 19 2002
Hearne 9	347043	15	June 19 2002
Hearne 10	347046	1	June 20 2002
Hearne 11	347047	1	June 20 2002
Hearne 12	348735	1	July 25 2002
Hearne 13	348736	1	July 25 2002
CUB 100	341513	10	October 13 2002
BB 1	341551	20	October 19 2002
BB 2	341552	20	October 24 2002
BB 3	341553	20	October 19 2002
BB 4	341554	20	October 24 2002
CUB 300	341510	20	October 13 2002

The property, consisting of 308 metric claim units, surrounds Hearne Hill, approximately 65 km north-east of Smithers in central British Columbia.

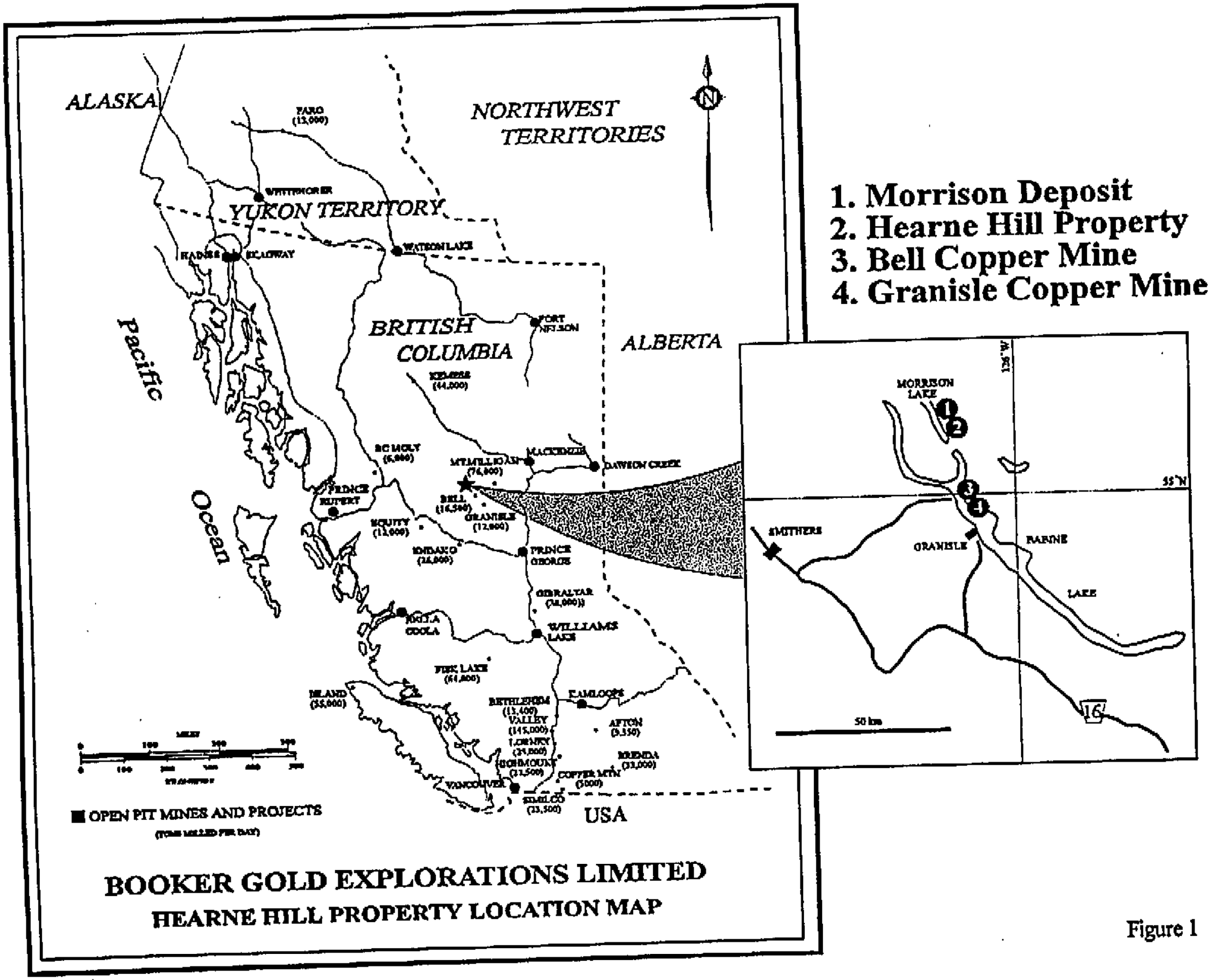
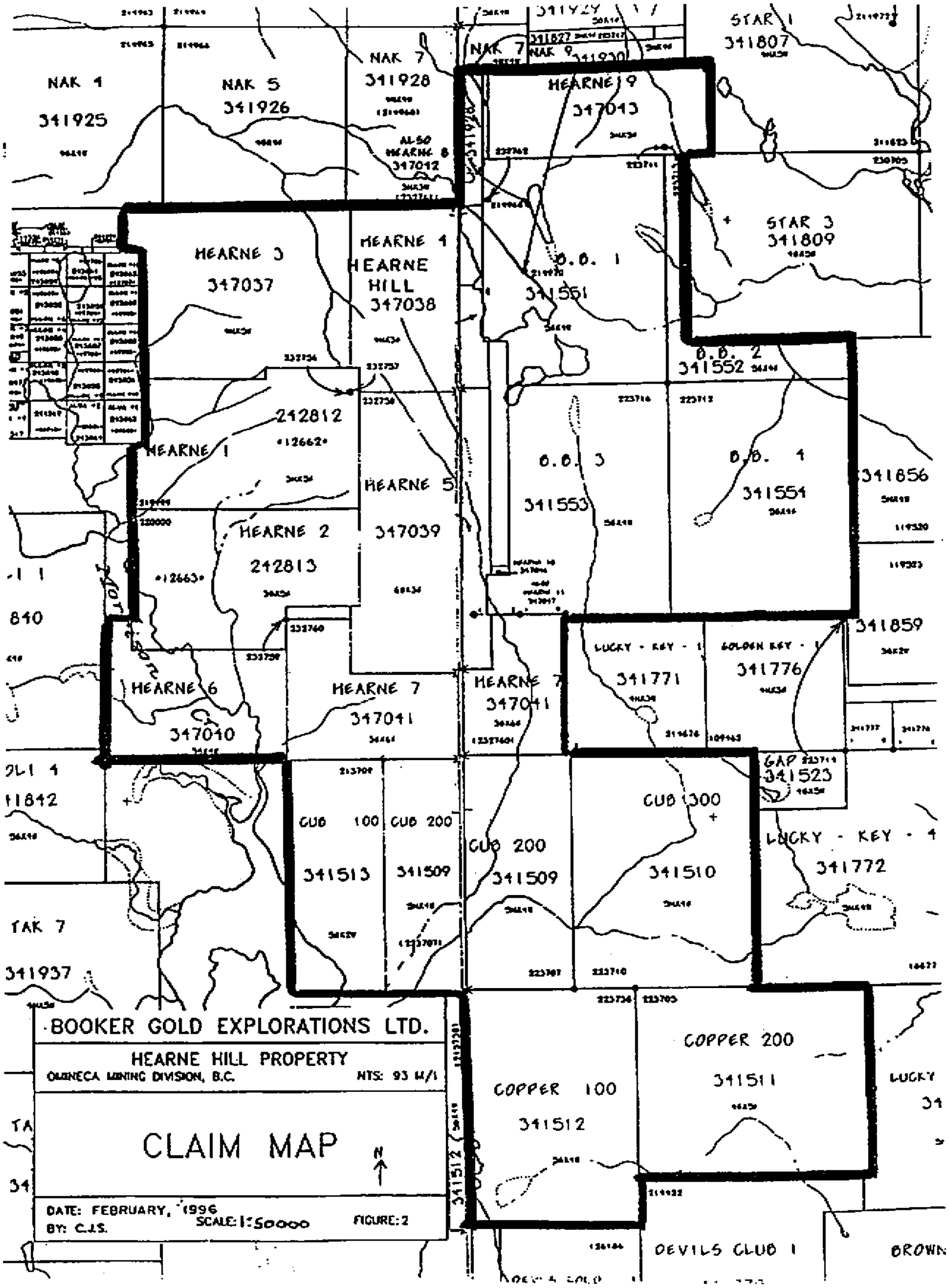

ALASKA
NORTHWEST TERRITORIES
YUKON TERRITORY
BRITISH COLUMBIA
ALBERTA
Pacific
Ocean
USA
PRINCE RUPERT
PRINCE GEORGE
WILLIAMS LAKE
KAMLOOPS
VANCOUVER
DAWSON CREEK
WATSON LAKE
OPEN PIT MINES AND PROJECTS
BOOKER GOLD EXPLORATIONS LIMITED
HEARNE HILL PROPERTY LOCATION MAP
1. Morrison Deposit
2. Hearne Hill Property
3. Bell Copper Mine
4. Granisle Copper Mine
MORRISON LAKE
SMITHERS
GRANISLE
BABINE
LAKE
55°N
50 km
16

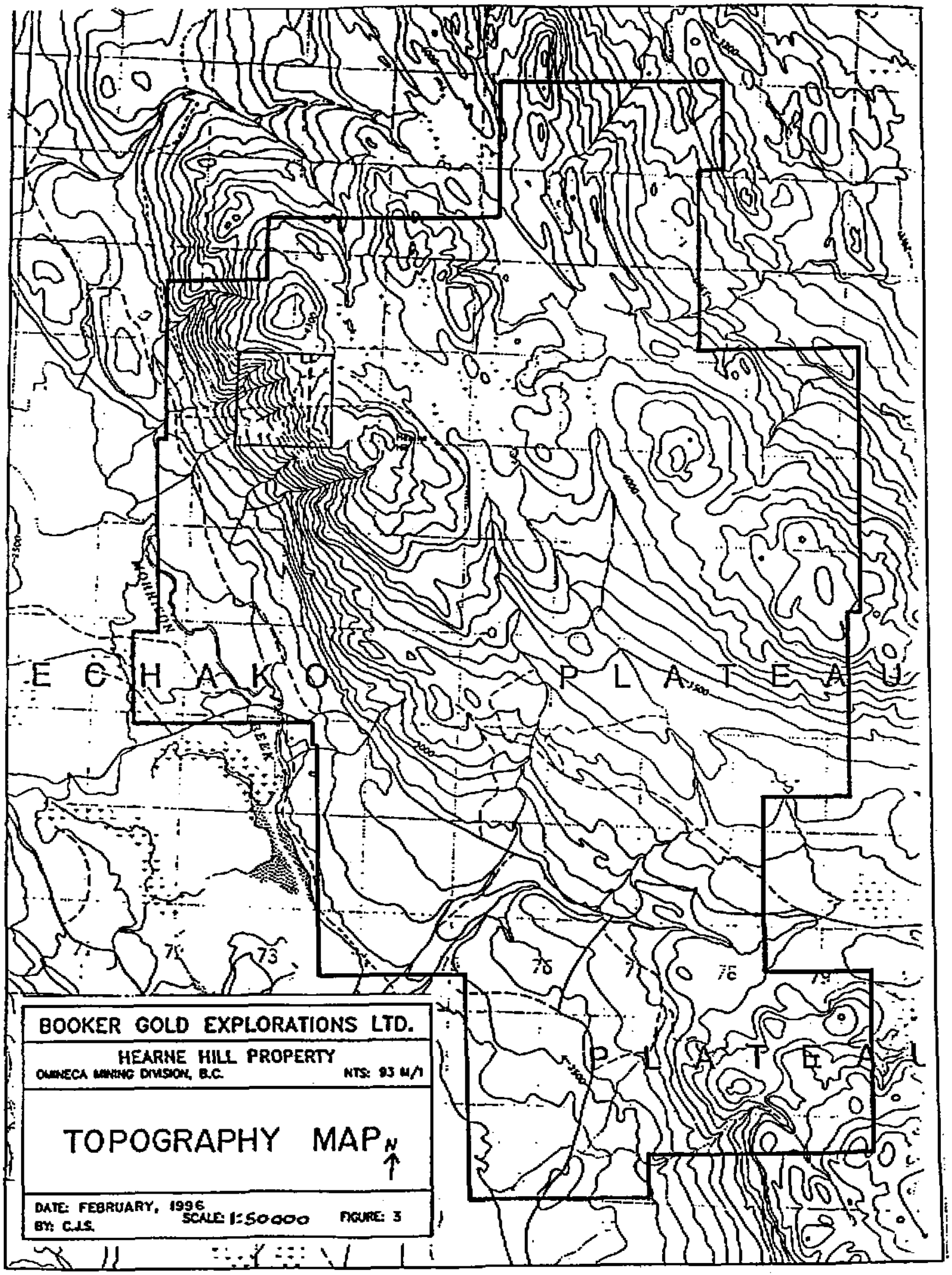
Figure 1



BOOKER GOLD EXPLORATIONS LTD.
HEARNE HILL PROPERTY
OMINECA MINING DIVISION, B.C.
NTS: 93 M/1
CLAIM MAP
N
DATE: FEBRUARY, 1996
BY: C.J.S.
SCALE: 1:50000
FIGURE: 2
NAK 4
341925
NAK 5
341926
NAK 7
341928
ALSO HEARNE 8
347012
HEARNE 9
347013
STAR 1
341807
STAR 3
341809
HEARNE 3
347037
HEARNE 4
HEARNE HILL
347038
B.B. 1
341551
B.B. 2
341552
242812
HEARNE 1
HEARNE 5
347039
B.B. 3
341553
B.B. 4
341554
341856
HEARNE 2
242813
341859
HEARNE 6
347040
HEARNE 7
347041
LUCKY - KEY - 1
341771
GOLDEN KEY - 1
341776
GAP
341523
CUB 100
341513
CUB 200
341509
CUB 300
341510
LUCKY - KEY - 4
341772
TAK 7
341937
COPPER 100
341512
COPPER 200
341511
DEVILS CLUB 1
BROWN
LUCKY

Access to the property is by a series of main haulage logging roads. The major access route is from Smithers to Topley Landing, then by Northwood barge across Babine Lake and via the Jinx and Hagan Forest Service roads to within 4 km of the property. A four-wheel drive exploration road to the property intersects the Hagan road at kilometre 40, 21 km north of the Bell Mine site.

The property varies in elevation from a low of 734 m. (2405 ft.) on Morrison Creek on the west side to a high point of 1350 m. (4430 ft.) on Hearne Hill. Hearne Hill forms part of a ridge trending south-east caused by block faulting in the area. The western slope of Hearne Hill is quite steep and is drained by several small creeks westward into Morrison Lake (Figure 3).


BOOKER GOLD EXPLORATIONS LTD.
HEARNE HILL PROPERTY
OMINECA MINING DIVISION, B.C.
NTS: 93 M/1
TOPOGRAPHY MAP
N
DATE: FEBRUARY, 1996
BY: C.J.S.
SCALE: 1:50000
FIGURE: 3
E C H A K O P L A T E A U
P L A T E A U

4.0 REGIONAL GEOLOGY AND EXPLORATION HISTORY

The Hearne Hill area is situated on the northern edge of the Skeena Arch in a region which is underlain by volcanic and epiclastic rocks ranging in age from Lower Jurassic (Telkwa) formation to Lower Cretaceous (Skeena) group. This sequence of rocks has been cut by a northwest trending series of faults that have created a long linear sequence of horsts and grabens. The rocks have been intruded by a variety of intermediate to felsic stocks, plugs and dikes of Eocene age (Richards 1990).

During the Tertiary-Eocene period BFP plugs and stocks of the Babine igneous suite were emplaced along major faults in a continental magmatic arc. Two ore bodies (Bell and Granisle) and numerous sub-economic deposits occur as porphyry-copper deposits which are temporally and spatially associated with the Babine Igneous Suite intrusions (Carson and Jambour 1973). The Babine Igneous Suite is a high potassium, calcalkaline suite which shows some trace elements normally associated with alkaline porphyry copper deposits rather than calcalkaline.

Mapping of the regional geology of the Old Fort Mountain mapsheet (93 M/01) was undertaken by the British Columbia Geological Survey (BCGS) in 1996 (MacIntyre *et al.*, 1997). Information from this BCGS map will be combined with Booker Gold's Hearne Hill mapping to produce a comprehensive geological map of the claims area.

Refer to Stevenson and Weary (1997) for a description of the exploration history of the Hearne Hill property.

5.0 PROPERTY GEOLOGY, MINERALIZATION AND ALTERATION

The following description of geological setting, mineralization and alteration is based on Ogryzlo (1991). Detailed 1:1000 and 1:5000 geological maps are included in the back pocket.

5.1 Geological Setting:

Hearne Hill is underlain by volcanic rocks of the lower to Middle Jurassic Hazelton Group (Richards, 1990). The volcanic rocks on the property belong to the submarine Kotsine facies of the Sinemurian Telkwa formation (Tipper and Richards, 1976). The volcanic rocks are characterised by waterlain grey lapilli-crystal tuffs and grey andesite.

The country rocks at both properties have been intruded by porphyritic rocks of the Eocene Babine igneous suite. Mapping by Booker Gold on the Hearne Hill property indicates that the Eocene biotite-feldspar porphyry intrusives form a series of north-easterly trending dykes. Ogryzlo (1990) concluded that the intrusions on Hearne Hill are multiphase, with more than one post mineral intrusion of BFP. The intrusives are diorite or quartz diorite composition. Porphyry copper related mineralization with in the BFP consists primarily of disseminated chalcopyrite with minor chalcocite and bornite filling fractures.

5.2 Porphyry Copper Mineralization

Chalcopyrite, bornite and molybdenite occur as fracture fillings and disseminations in the biotite feldspar porphyry and surrounding wallrocks of the Hearne Hill deposit. Mineralization is due to large porphyry copper systems of the Cu-Mo type.

Many of the biotite feldspar porphyry units are intermineral or post mineral in age. The erratic nature of the copper distribution is caused by these late stage intrusions. The volcanic rocks, in contrast with late stage BFP, are invariably higher in grade. The Hazleton volcanics were deposited before any mineralizing event, and have been subjected to all stages of mineralization. When the distribution of copper in the volcanics alone is examined, it appears that grades are increasing to the south and west of the Chapman breccia zone.

5.3 Breccia Mineralization

At present, there are two known bodies of mineralized breccia. The southern body (the Chapman zone) has been known for several years and was extensively studied by Ogryzlo. The northern body (the Bland zone) was discovered by Booker Gold during the 1995 drill programme.

The Chapman and Bland breccia zones are elongated along a principal N10-20E striking fracture system. These are dilational zones of brecciation which are surrounded by areas of fracturing which carry enriched copper and gold mineralization. Booker Gold's 1996 drilling has shown that mineralization extends to considerable depths (in excess of 500 m).

The Chapman breccia zone is ovoid in plan, with a length of approximately 75 m and a width of 50 m. It strikes N10-20E, dips steeply east with a southeast plunge. Clasts are angular, with the brecciated rocks having the texture of cemented rubble or talus.

The porosity of the breccia before sulphide and carbonate cementation would have been close to the theoretical maximum of around 25%. Chalcopyrite, pyrite and marcasite fill angular interstices between the breccia clasts with later cementation provided by calcite, dolomite and minor chalcedony. Porosity remains between 5% and 8%. There is little evidence of milling or attrition of clasts. Rock flour is present between clasts but is a minor constituent.

Fluids associated with the breccia mineralization were dilute epithermal chloride brines. In the breccia, fluid inclusions that are trapped in the dolomite cement homogenize at a mean temperature of 172.5^{0}C (in a range of between 83^{0}C and 240^{0}C) with salinities ranging from 2% to 10% NaCl equivalent (Ogryzlo et al 1995).

Gold is enriched in the breccia pipe relative to the stockwork mineralization and averages 0.8 g/t. However, higher values (14 g/t over 3 m) have been obtained. Such values are rare in the stockwork deposits of the Babine region and indicate that suitable conditions for an epithermal precious metal deposit may be present.

The breccia clasts are lithologically identical to the enclosing wallrocks, making the breccia virtually monolithologic. Heterolithic breccia was observed in Noranda holes H90-3 and H90-1. Sericitized and bleached biotite feldspar porphyry clasts with grey andesite and tuffaceous felsic clasts form the bulk of the Chapman breccia zone. Many clasts reveal pre-breccia mineralization consisting of sulphide and quartz sulphide veinlets.

The breccias in the Bland zone are also related to a N10-20E striking principal fracture system which dips steeply to the east. As in the Chapman zone, copper and gold mineralization occurs infilling what were originally voids between the breccia clasts.

As a result of the 1996 drilling programme, the Chapman and Bland breccia zones have been shown to be elliptical (in plan) dilational zones centred and elongated along a principal fracture system which strikes N10 - 20E and dips steeply (approximately 80^0) east.

The breccia zones appear to have gradational contacts with their host rocks; the brecciation grades into strongly fractured host rock on both foot and hanging wall sides of each of the Chapman and Bland zones. These areas of intense fracturing contain grades of copper and gold similar to those in the breccia zones themselves which gradually diminish over a distance of 10-50 m laterally away from each breccia zone.

The surface expression of the Bland zone is determined to be approximately 100 m by 75 m by a depth of 300 m. The Chapman zone has a surface expression of 75 m by 50 m by a depth of 100 m.

Booker Gold's drill programmes have concentrated on finding more high grade breccia and associated high grade fracturing, thus holes have not been drilled on a regular grid pattern. However, sufficient drilling has been done to date to enable an estimate of the dimensions of the enriched core with a strike length of approximately (500 m), an average width (from sections and surface expression) of 50 m and a depth in excess of 300 m.

6.0 EXPLORATION PROGRAMMES

6.1 Geochemistry and Surficial Geology

6.1.1 Methodology

At each site, deep C-horizon samples were obtained by shovel and placed in plastic bags. Samples were sent to ACME laboratories in Vancouver to be split and sieved for thirty-two element ICP (plus gold) analysis of the -230 mesh fraction. Geochemical results for each sample and sample attributes are presented in Appendix A. Terrain morphology of the sample location and sedimentological characteristics of the sample medium were used to identify the surficial geology at each sample site as either a blanket (> 1 m thick) or veneer (< 1 m thick) of basal till, remobilized till or colluvium. Basal till is a matrix supported diamicton that is transported and deposited directly from glacier ice. Ice flow on the Hearne Hill property during the glacial maximum was towards the south - south-east (150-160°). Colluvium appears as weathered, broken-up bedrock transported down slope. The slope gradient is between 10 and 25 degrees, toward the west - south-west (250-260°).

6.1.2. Geochemical Surveys

A surficial geochemical program was commenced in 1996 in order to obtain property and detailed- scale geochemical coverage. The 1996 property-scale survey was carried-out between 8500S - 9500W and 12000S - 11000W 9800S lines (1 sample per 100 m). The program was very successful at delineating the porphyry system. A second survey 9800S - 10000W and 10200S - 10400W was undertaken on a detailed level (one sample per 25 m) to delineate areas with potential for hosting high-grade mineralization. Three zones were delineated with multi-element, multi-site geochemistry: the area near the Bland zone, the area near the Chapman zone and a third area, down-slope and up-ice of the Bland zone. The first two geochemical anomalies resulted in trenching and drilling of these anomalies and expanding and defining the Bland and Chapman zones. The third zone was trenched and partially drilled and successful in uncovering mineralization. However, high-grade mineralization, similar to the other breccia bodies has not been identified. This area will continue to be explored in 1998.

6.1.2.1 Property-scale geochemistry

In 1997, 404 samples were collected in the property-scale geochemical program (one sample per 100 m). The program consisted of expanding the 1996 grid to the west from 11100 W to 11600 W and 11000 S to 8500 S. The grid was also expanded to the east from 9600 W to 9000 W and 10500 S to 9000 S. In addition, two property scale geochemical anomalies from 1996 had follow-up sampling completed. The property-scale plots of Cu and Au are presented in Appendix A. Several new geochemical anomalies were identified by this geochemical survey.

The first anomaly is between 11800 – 11950 W and centered near 9475 S. Sample 97-R-49 assayed 1166 ppm Cu with 5 ppm Au. This is a significant Cu value, but the Au value is background level. Follow-up sampling in the same pit was aimed to reproduce the Cu value. Sample 97-R-146, collected in the same pit assayed 974 ppm Cu and 4 ppb Au. However, sample 97-R-147 was sampled one metre to the north of the anomalous samples. This sample assayed only 83 ppm Cu and 2 ppb Au. These results suggest the first two anomalies are likely not till geochemical anomalies but rather the result of a local Cu-enrichment, likely due to mineralized rock in the pit. Follow-up sampling in the area uncovered more Cu geochemical anomalies without Au (samples 97-R-148 to 156 and 166 to 172). Prospecting and mapping in the area of the Cu anomaly uncovered a BFP intrusive dyke. Copper anomalies can be attributed to porphyry-style mineralization associated with this dyke. The amount of mineralization is not known, but based on the outcrop and geochemical information, it is thought to be relatively small.

The second significant geochemical anomaly occurs on the western margin of the Booker Gold claims. Copper and gold geochemical anomalies occur south of the 9300 line and on the 11500 and 11600 west lines. The most likely source for these anomalies is the Morrison property. The Morrison deposit lies 300-1000 m up-ice (north-west) of these geochemical anomalies.

A third, small anomaly occurs on the 11200 W line between 10800 and 11000 S. From north to south, the samples are 97-R-9 to 11 with Cu values of 200, 645 and 340 and Au values of 7,15 and 2 ppb, respectively. The most northern sample is classified as basal till occurring on slightly sloping ground in a well-drained area. The second sample is located on flat land, but in well-drained sediments and the third sample occurs in wet, flat topography in organic-rich glacio-lacustrine sediments. Since the sample medium was not consistent, it would be difficult to speculate on the origin of this geochemical anomaly, but it would warrant detailed follow-up sampling in 1998.

The fourth anomalous area occurs sporadically on the eastern edge of the claims and can be attributed to down-ice dispersion from the porphyry and Bland and Chapman zones.

6.1.2.2 - Detailed-scale geochemistry

Also in 1997, 89 detailed samples (one per 100 m) were collected on a slightly expanded grid from the 1996 survey. The purpose was to better define the 1996 geochemical anomalies by infilling sites that were not previously sampled. The detailed-scale plots for copper and gold are presented in Appendix A. The copper plot has very anomalous samples on the centre of the grid between the 10275 – 9975 N and 10400 W to 10000 W. Values in this area are up to 5621 ppm Cu and average about 1000 ppm Cu. Values to the east and west of the central anomaly are much less anomalous, on the order of 150 ppm. The gold values has coincident anomalies as the copper plot. However, gold values are not as anomalous as Cu values, relative to the 1996 database. Values in the central anomaly range from background levels (2 ppb) to moderately anomalous values (maximum 122 ppb).

6.2 Geophysical Surveys

In 1997, Geotronics Inc. surveyed 8 km of IP lines on the Hearne Hill property. The lines extended and expanded the grid to west. Plan maps of the apparent chargeability (I.P.) and apparent resisitivity are included in the back pocket (Map 3 and Map 4). Instrumentation included an IRIS (BRGM) IP-6 receiver and a PHOENIX MODEL IPT-1, 2.5 kWatt Transmitter/Generator. The I.P. survey parameters included a time domain survey mode, a dipole-dipole array, a dipole length of 30 m, a dipole separation of n=1 to n=6, a delay time of 240 milliseconds, an integration time of 1600 milliseconds, and a 8 second square wave charge cycle.

The north-south geophysical survey indicates a strong north-east trend in the chargeability consistent with the strike direction of local faults in the area. A low resistivity response outlines the area of the porphyry system's pyrite halo. The pyrite halo is a near-circular feature with a diameter of approximately 750 m.

The Bland zone is located over a chargeability high - resistivity low. Drilling of a large chargeability high - resistivity low target to the south revealed massive pyrite. Interpretation of the geophysics suggests that the north-east oriented chargeability highs both to the south and north of the Bland zone reflect a pyrite halo surrounding the porphyry system. Chargeability highs located along strike of the Chapman - Bland zones and within the pyrite halo may represent areas of enriched chalcopyrite mineralization.

In addition to the property-based survey, a detailed east-west IP/ resistivity survey was completed over the breccia bodies. Terrain-adjusted pseudosections and self potential maps were created. This detailed IP work is currently being interpreted and inverted IP sections will be used to provide a geophysical fingerprint of the breccia bodies. This can then be used to explore for other breccia bodies on the Hearne Hill property.

Geotronics Ltd. is currently reviewing the geophysical data base, and will write a comprehensive report on the Hearne Hill property. This report will include interpretations and conclusions from the IP, magnetics and VLF surveys. No geophysical work has been planned for the upcoming year until the release of the report from Geotronics. However, an IP anomaly south of the Chapman Zone has a similar IP response as the Chapman Zone and will be tested in 1998. If this target intersects breccia mineralization, more detailed IP lines will be planned.

6.3 Trenching and Bedrock Mapping

A major trenching program, using an excavator was undertaken in 1997. Trench locations and sample sites are shown on Map 1. Trenches 97-8 to 97-69 were completed for a total length of 6000 m, of which 4300 m reached bedrock. Due to the nature of the bedrock, the excavator was often able to dig up to two meters in fractured or oxidised bedrock. This facilitated mapping and sampling programs. The bedrock geology of the trenches were mapped and sampled, typically every 5 to 10 m. The geology and assays were entered into a spreadsheet format, and are now in digital format (Volume 2). Approximately 450 grab (rock) samples were collected, shipped to Vancouver and analysed for 30 element ICP (plus Au) by Acme Analytical Laboratories.

The trenching program was concentrated in areas with the highest potential for uncovering mineralization. In addition, access roads were also trenched to better define the geology of the porphyry system and its relationship with the country rocks.

The porphyritic system is composed of a series of dykes of BFP from the Eocene age Babine intrusions. A massive swarm of these dykes is centred on the 10250 W line and 10 000 S line. The main central dyke swarm is approximately 350 x 300 m. Numerous offsets and isolated dykes occur as a halo around the east and south portions of the central body. Limited outcrop was available for the western margin. The high-grade breccia bodies occur on the eastern edge and south-eastern edges of the porphyry. Since the porphyry system is locally discontinuous, sections of andesite and quartz diorite also outcrop in the dyke swarm. The country rock, which hosts most of the BFP intrusions, consists of Hazleton Group andesite with minor sediments. North of the porphyry system, Cretaceous-Tertiary quartz diorite occurs. Finally, the only marker unit on the property is a porphyritic mafic dyke, which strikes roughly north-east and has an inferred thickness of several metres.

6.3 Diamond Drilling

Drilling from October 1996 to October 1997, resulted in a total of 68 diamond drill holes numbered DDH 96-73 - DDH 96-141, with a total length of 15960 m. Splits from the logged core are stored on the property at the Booker Gold Field Camp. Detailed logs and assay certificates for these holes are included in Volumes 3 - 5. Drill hole locations are plotted on a 1:1000 scale and 1:5000 scale maps (Maps 1 and 2 in back pocket). Co-ordinates, azimuth, dip length and assays are summarised for the above drill holes in Appendix B.

7.0 ITEMIZED COST STATEMENT

Personnel

Consulting Engineer	36 days	14,050.00
Consulting Geologist	22 days	6,600.00
	46.5 hours	1,815.00
Expeditor	230 days	25,300.00
Expediting Services	*0.5 hours*	20
Geologists	811.6 days	187,806.00
	72 hours	1,506.63
Field Assistants	95 days	14,250.00
Field Technician	836.5 days	130,259.86
Coresplitters	99.5 days	14,925.00
Linecutters	67 days	17,142.15
Camp Cook	307.75 days	61,152.00
Assistant Cook	42.5 days	6,630.00
Camp watch	38 days	5,400.00
First Aid training		1,892.20
Payroll benefit cost		15,560.58
Workers Compensation cost		26,996.78
		531,326.20

Equipment

Truck rental	481 days	24,628.67
	4,716.30 kms	1,305.52
Transport equipment		4,196.50
Fuel & maintenance costs		28,296.47
Excavator	1,528.50 hours	213,032.18
Rescue Van & Boat rental	230 days	12,650.00
Snowshoe rental		240.00
Snowmobile rental	4.5 months	6,500.00
ATV rental	8 months	17,204.95
Grader rental	10 hours	1,248.70
Computer rental		200.00
Welder		576.09
Chainsaws-rental		625.00
Chainsaw		609.79
Camp Appliances-rental	12 months	10,914.00
Copier-rental	13 months	3,094.28
Core Storage-rental	15 months	11,021.73
Radio rentals	95 set/months	5,852.61
		342,217.49

Camp Costs			
	Room & Board		7,781.56
	Camp food & supplies		83,875.29
	Fuel & Maintenance costs		86,997.50
	Small tools/equipment		1,483.43
	Road building/snow removal		14,461.32
			194,599.10
Surveys, etc.			
	Geophysical	11 days	8,000.00
	IP/Resistivity	15 days	70,805.97
	Geophysical data *Interpretation*		2,094.50
	Interpretation		3,816.82
			84,717.29
Drilling			
	Diamond Drilling	58,026.00 feet	1,563,380.97
Assay			
	Analysis of samples	8,251.00 samples	145,042.79
	Analysis of water samples	68 samples	23,341.00
	Storage of samples @ lab		6,630.96
			175,014.75
Other disbursements Travel			
	Airfares to property	49 fares	16,696.32
	Bus	1 fare	121.9
	Travel expenses		3,878.45
	Medivac	1 trip	444
	Helicopter		10,412.00
			31,552.67

Other Items

Drafting & map reproduction	56,359.60
Field Supplies	13,739.30
Core boxes	5,016.90
Telecommunications	35,559.23
Freight	2,306.48
Typing service	31.72
Advertising	80.2
Stumpage fees	
	29,725.77
	142,819.20
TOTAL	**3,065,627.67**

8.0 REFERENCES AND BIBLIOGRAPHY

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9.0 Statements of Qualifications

Erin O'Brien

I, Erin O'Brien, of Vancouver, British Columbia, do hereby certify that:

1. I am a graduate of McGill University, Montreal Quebec, with a B.Sc. in Geology and Environmental Studies (1994). I have a post-graduate degree from the University of New Brunswick, Fredericton, New Brunswick, with a M.Sc. in Geology (1996).

2. I am enrolled with the Association of Professional Engineers and Geoscientists of British Columbia as a Geologist in Training.

3. I have been employed in mineral exploration in British Columbia since 1994.

4. I conducted the field work described in this report and this work forms the basis of the conclusions and recommendations outlined.

Vancouver B.C., January 1998 — Erin O'Brien, M.Sc.

Gordon Weary

I, Gordon F. Weary, of 449 East 18th St., Vancouver, B.C. V7L 2Y1, hereby certify that:

1. I am a graduate (1996) of the University of New Brunswick, with a Master of Science degree in Geology. My thesis focussed on mineral exploration using till geochemistry. I am also a graduate (1994) of McGill University, with a Bachelor of Science degree in Geology.

2. I am enrolled as a GIT with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

3. I have been involved in the mineral exploration industry in central British Columbia for the past four years.

4. I have acted as full time project geologist for Booker Gold Explorations Ltd. since May 1996. Since that time I supervised all aspects of the Hearne Hill exploration programs, including the diamond drill hole program and geochemical sampling programs.

5. The present report is based on work done on the Hearne Hill property between October 1996 and October 1997, and on a study of previous reports as well as published and unpublished data.

Vancouver, B.C. January 1998 — Gordon Weary, M.Sc.

APPENDIX A

Reference guide to geochemical sample locations and attributes

Property scale geochemical results and sample attributes
Property scale Cu and Au maps

Detailed scale geochemical results and sample attributes
Detailed scale Cu and Au maps

Reference guide to sample attributes:

Sample number	**Drainage – of sample area: poor to well**
UTM North Coordinate	**Fissility** - Type of fissility, from none to weak
UTM East Coordinate	**Density** - Consolidation of the sample From loose to compact
Date	***Oxidation*** *- Extent of sample oxidation*
Collected by	**Jointing** - Amount of jointing from none to strong
Claim name	**Color** – of sample **Matrix** – percentage of fines
Surficial geology map units 1 and 2 Mb - Till blanket Mv - Till veneer Cb – Colluvial blanket Cv – Colluvial veneer O – Organics Fg – Glaciofluvial sediments Lg – Glaciolacustrine sediments R – Rock (bedrock) Stream Seds: silt from active creek x/y - Unit x is more abundant than unit y x//y – Unit x is much more abundant than unit y x:y - Unit x occurs with unit y	**Abbreviations Key** B/R= bedrock N= north, S= south, E= east, W= west w/= with tr. =trace S = small; M= medium; L= large A= angular; SA= subangular; R= rounded f.g.= fine grain; m.g.= medium grain; c.g.= coarse grain; v.f.g.= very fine grain; f.d.= *finely disseminated* py= pyrite; cpy= chalcopyite; mal= malachite qtz= quartz; chl= chlorite; epi= epidote grn= green dior= diorite; vol= volcanic; and.= andesite; ss= sandstone; zs= siltstone BFP= Biotite feldspar porphyry *f/spar or f/s= feldspar*
Sediment type sampled Dmm – Massive, matrix-supported diamicton s – sandy z – silty sz - sandy silt zs - silty sand c – clay g – gravelly **Depth to sample from surface, in cm**	**Clast Mode** Size of clasts in sample From small to large pebble **Clast Roundness** – Shape of clasts from angular to rounded **Bedrock** - Type of bedrock underlying or near to the sample site. Refer to abbreviations key.
Exposure – where sample was collected	**Comments** - Unique to the sample site
Topographic position **Aspect** – direction of slope **Slope** – angle in degrees	**Lithology** - Clasts collected from the pit, relative percentage of each and roundness of the clasts.

SAMPLES	Westing	Southing	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	Au* ppb
97R-1	-11100	-10000	2	51	14	87	< .3	36	13	667	3.29	22	< 5	< 2	38	0.2	2	< 2	57	0.57	0.06	11	25	0.4	215	0.03	< 3	1.51	0.01	0.07	17
97R-2	-11100	-10100	3	38	4	90	< .3	32	15	1203	4	23	< 5	< 2	81	0.8	< 2	< 2	74	0.66	0.071	15	33	0.59	267	0.05	< 3	1.8	0.02	0.08	13
97R-3	-11100	-10200	1	37	7	66	< .3	23	15	853	3.42	22	< 5	< 2	37	< .2	< 2	< 2	64	0.43	0.06	19	26	0.46	212	0.05	< 3	1.56	0.01	0.05	11
97R-4	-11100	-10300	1	33	4	74	< .3	27	11	515	3.18	26	< 5	< 2	29	< .2	< 2	< 2	55	0.28	0.047	10	23	0.34	174	0.05	< 3	1.19	0.01	0.06	2
97R-5	-11100	-10400	1	35	7	69	< .3	26	8	305	3.1	28	< 5	< 2	27	< .2	< 2	< 2	51	0.24	0.03	8	22	0.28	157	0.04	< 3	1.03	0.01	0.06	3
97R-6	-11100	-10500	1	38	10	73	< .3	28	10	254	3.23	49	< 5	< 2	30	< .2	< 2	< 2	53	0.24	0.027	7	23	0.3	182	0.03	< 3	1.4	0.01	0.05	6
97R-7	-11100	-10600	2	105	21	211	0.4	31	17	1026	4.26	63	< 5	< 2	36	0.7	< 2	2	76	0.35	0.081	11	31	0.48	214	0.05	< 3	1.87	0.01	0.08	6
97R-8	-11100	-10700	1	43	< 3	71	< .3	29	10	369	3.01	12	< 5	< 2	28	< .2	< 2	< 2	50	0.22	0.041	8	26	0.38	162	0.04	< 3	1.26	0.01	0.07	2
97R-9	-11100	-10800	2	200	7	303	0.7	41	17	691	3.99	18	< 5	< 2	94	0.7	< 2	< 2	68	0.67	0.14	9	78	0.81	247	0.07	< 3	1.75	0.01	0.15	7
97R-10	-11100	-10900	6	645	16	121	0.4	35	19	1330	4.45	34	< 5	< 2	112	0.2	2	< 2	74	0.81	0.084	15	44	0.75	273	0.06	< 3	1.69	0.01	0.1	15
97R-11	-11100	-11000	7	340	8	95	0.4	29	12	499	3.42	26	< 5	< 2	101	1.2	2	< 2	53	0.99	0.073	9	29	0.48	313	0.04	3	1.37	0.01	0.06	2
97-R-12	-11200	-10000	5	168	17	136	0.5	41	24	1968	5.88	40	< 5	< 2	141	0.5	< 2	< 2	96	0.82	0.092	28	42	0.85	435	0.03	< 3	2.99	0.02	0.12	3
97-R-13	-11200	-9900	1	45	11	105	< .3	34	15	839	4.16	58	< 5	< 2	144	< .2	< 2	< 2	72	0.73	0.067	12	31	0.64	172	0.03	< 3	2	0.02	0.11	4
97-R-14	-11200	-9800	1	208	21	178	1	30	23	1227	7.18	108	< 5	< 2	39	0.4	2	4	96	0.8	0.046	39	38	0.49	295	0.02	< 3	1.89	0.01	0.08	11
97-R-15	-11200	-9700	1	31	5	121	< .3	24	12	795	3.55	27	< 5	< 2	29	< .2	< 2	< 2	66	0.41	0.05	10	24	0.44	298	0.06	< 3	1.55	0.01	0.06	< 1
97-R-16	-11200	-9600	1	59	18	327	0.4	28	47	6762	8.03	32	< 5	< 2	39	1.1	< 2	2	144	0.82	0.086	23	38	1	1166	0.03	4	2.9	0.01	0.11	< 1
97-R-17	-11200	-9500	1	122	8	266	< .3	22	28	2982	6.16	24	< 5	< 2	22	0.2	< 2	2	132	0.43	0.169	12	29	0.59	399	0.04	< 3	2.82	0.01	0.09	< 1
97-R-18	-11200	-9400	2	255	18	1213	1.3	29	38	2948	9.02	22	< 5	< 2	18	2.8	< 2	< 2	278	1.07	0.097	9	47	2.96	229	0.06	< 3	3.94	0.01	0.07	1
97-R-19	-11200	-9300	1	82	18	139	< .3	19	20	3747	8.64	24	< 5	< 2	24	0.5	< 2	< 2	84	0.84	0.113	41	22	0.43	555	0.01	< 3	2.76	0.01	0.08	< 1
97-R-20	-11200	-9200	1	81	13	109	< .3	36	18	1146	4.43	31	< 5	< 2	38	< .2	< 2	< 2	81	0.69	0.06	20	35	0.79	356	0.03	< 3	2.57	0.02	0.1	< 1
97-R-21	-11200	-9100	1	66	56	251	< .3	41	23	1198	4.93	34	< 5	< 2	29	0.3	< 2	2	87	0.55	0.052	11	43	1.06	267	0.06	< 3	2.63	0.01	0.11	< 1
97-R-22	-11200	-9000	1	72	11	114	< .3	38	19	1133	4.74	25	< 5	< 2	47	< .2	< 2	< 2	86	0.67	0.058	17	37	0.94	315	0.05	< 3	2.41	0.02	0.11	< 1
97-R-23	-11200	-8900	1	49	4	63	0.3	9	9	1874	2.24	9	< 5	< 2	58	0.7	< 2	< 2	28	2.99	0.189	15	10	0.38	1005	0.01	13	0.98	0.01	0.09	1
97-R-24	-11200	-8800	1	30	6	81	< .3	9	10	2163	6.97	15	< 5	< 2	10	< .2	< 2	< 2	52	0.27	0.058	8	13	0.5	228	0.02	< 3	2.39	0.01	0.06	< 1
97-R-25	-11200	-8700	1	20	8	106	< .3	18	10	786	3.44	11	< 5	< 2	16	< .2	2	< 2	67	0.18	0.048	10	22	0.31	195	0.03	< 3	1.8	0.01	0.06	2
97-R-26	-11200	-8600	1	39	10	68	< .3	23	12	434	3.35	19	< 5	< 2	23	< .2	2	< 2	63	0.22	0.024	8	23	0.42	160	0.05	< 3	1.5	0.01	0.04	2
97-R-27	-11200	-8500	1	16	8	137	< .3	17	12	355	3.56	19	< 5	< 2	18	< .2	< 2	< 2	65	0.27	0.142	8	22	0.35	166	0.03	< 3	1.81	0.01	0.06	1
97-R-28	-11400	-9400	1	46	8	84	< .3	28	15	721	3.76	15	< 5	< 2	27	< .2	< 2	< 2	68	0.34	0.044	9	28	0.62	156	0.06	< 3	1.63	0.01	0.08	10
97-R-29	-11400	-9300	2	51	9	350	0.4	17	16	1716	5.41	5	< 5	< 2	25	1.1	< 2	< 2	81	0.46	0.215	7	25	0.58	439	0.05	< 3	1.97	0.01	0.11	< 1
97-R-30	-11400	-9200	1	33	8	94	< .3	22	12	711	3.49	14	< 5	< 2	31	< .2	2	< 2	68	0.48	0.056	8	26	0.69	186	0.09	< 3	1.52	0.02	0.09	2
97-R-31	-11400	-9100	1	73	12	107	0.4	35	18	1067	4.61	33	< 5	2	35	< .2	< 2	< 2	80	0.6	0.049	19	36	0.61	504	0.04	< 3	2.65	0.02	0.08	5
97-R-32	-11400	-9000	1	26	11	159	< .3	9	10	1080	6.65	6	< 5	< 2	13	< .2	< 2	< 2	72	0.29	0.066	6	17	0.32	231	0.04	< 3	1.8	0.01	0.06	1
97-R-33	-11400	-8900	2	47	6	115	0.5	5	19	4026	5.57	2	< 5	< 2	30	< .2	< 2	< 2	40	1.04	0.179	31	4	0.31	1399	0.01	< 3	1.82	0.01	0.11	1
97-R-34	-11400	-8800	1	42	7	53	0.6	9	8	2671	2.96	152	< 5	< 2	31	0.4	2	< 2	41	1.9	0.103	12	10	0.23	744	0.01	< 3	1.4	0.01	0.14	7
97-R-35	-11400	-8700	1	61	21	156	0.4	35	19	1722	5.5	46	< 5	< 2	44	< .2	< 2	< 2	87	0.76	0.067	20	40	0.73	376	0.01	< 3	3.05	0.02	0.12	3
97-R-36	-11400	-8600	1	28	15	111	0.4	16	13	1515	4.6	6	< 5	2	66	0.5	2	< 2	62	1.6	0.335	43	23	0.38	222	0.02	5	2.37	0.01	0.28	1
97-R-37	-11400	-8500	1	40	9	81	< .3	26	13	631	3.69	20	< 5	< 2	28	< .2	2	< 2	71	0.43	0.03	12	29	0.55	190	0.06	< 3	1.51	0.01	0.07	3
97-R-38	-11100	-8400	3	215	22	169	< .3	25	23	449	5.22	25	< 5	< 2	27	< .2	< 2	< 2	98	0.31	0.048	8	26	0.85	145	0.03	< 3	2.19	0.01	0.05	1
97-R-39	-11100	-8500	1	38	11	90	< .3	32	12	492	3.72	17	< 5	< 2	31	< .2	< 2	< 2	65	0.24	0.04	8	28	0.45	223	0.04	< 3	1.71	0.01	0.06	2
97-R-40	-11100	-8600	4	75	31	939	0.5	15	33	767	7.98	15	< 5	< 2	38	3	< 2	< 2	138	0.37	0.14	10	19	0.67	182	0.12	< 3	3.19	0.01	0.07	1
97-R-41	-11100	-8700	1	40	12	83	< .3	25	12	319	4.04	11	< 5	< 2	25	< .2	3	< 2	79	0.19	0.023	6	29	0.51	254	0.03	< 3	1.94	0.01	0.04	1
97-R-42	-11100	-8800	2	66	6	99	< .3	19	25	1071	5.35	14	< 5	< 2	24	< .2	< 2	< 2	58	0.49	0.118	12	17	0.53	342	0.03	< 3	1.68	0.01	0.07	1
97-R-43	-11100	-8900	1	42	5	216	0.3	23	15	1302	3.74	16	< 5	< 2	46	1.3	2	< 2	63	1.01	0.145	7	25	0.46	386	0.02	< 3	1.6	0.01	0.07	1
97-R-44	-11100	-9000	4	272	9	156	< .3	21	28	678	5.73	11	< 5	< 2	17	< .2	< 2	< 2	111	0.18	0.049	7	27	0.69	209	0.04	< 3	2.24	0.01	0.08	2
97-R-45	-11100	-9100	2	45	15	121	< .3	14	16	1773	5.43	4	< 5	< 2	16	< .2	< 2	4	70	0.39	0.066	12	19	0.43	332	0.02	< 3	2.09	0.01	0.05	< 1
97-R-46	-11100	-9200	1	23	9	84	< .3	16	10	521	4.3	10	< 5	< 2	19	< .2	< 2	< 2	70	0.35	0.046	14	20	0.41	304	0.02	< 3	1.93	0.01	0.04	< 1
97-R-47	-11100	-9300	1	83	17	176	< .3	22	21	3707	5.85	19	< 5	< 2	28	0.5	< 2	< 2	72	0.8	0.104	38	29	0.46	485	0.04	< 3	3.27	0.01	0.07	1
97-R-48	-11100	-9400	2	1166	10	94	< .3	27	159	1296	13.65	67	< 5	< 2	16	< .2	< 2	< 2	143	0.44	0.074	8	14	0.31	387	0.01	< 3	1.47	0.01	0.01	5
97-R-49	-11100	-9500	1	159	11	482	0.5	22	50	5243	10.22	24	< 5	< 2	31	1.7	< 2	< 2	337	0.9	0.121	13	24	1.41	418	0.04	< 3	3.18	0.01	0.06	2

Property Scale C-horizon Geochemistry

SAMPLES	Westing	Southing	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	Au*
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppb
97-R-50	-11100	-9600	1	166	15	262	1.6	22	39	6068	6.16	12	< 5	< 2	36	1.3	3	< 2	163	1.43	0.133	18	26	0.65	650	0.03	< 3	2.41	0.01	0.08	1
97-R-51	-11100	-9700	< 1	34	10	148	< .3	40	19	1529	4.61	13	< 5	< 2	22	< .2	< 2	< 2	100	0.35	0.021	6	58	1.04	313	0.03	< 3	1.92	0.01	0.04	1
97-R-52	-11100	-9800	1	69	28	121	0.8	28	15	1009	4.8	50	< 5	2	39	< .2	2	< 2	87	0.5	0.044	12	29	0.76	259	0.07	< 3	1.81	0.01	0.08	2
97-R-53	-11100	-9900	1	45	14	137	0.3	25	13	774	4.03	18	< 5	< 2	183	0.2	< 2	< 2	67	0.61	0.041	9	28	0.46	177	0.03	< 3	1.79	0.01	0.07	1
97-R-54	-11300	-10800	< 1	37	7	76	< .3	30	10	354	3.03	13	< 5	< 2	36	< .2	2	< 2	47	0.21	0.035	9	24	0.4	166	0.04	< 3	1.19	0.01	0.06	1
97-R-55	-11300	-10700	1	77	26	134	< .3	37	14	388	3.46	76	< 5	< 2	37	0.2	3	< 2	51	0.22	0.065	8	26	0.43	152	0.03	< 3	1.39	0.01	0.06	3
97-R-56	-11300	-10600	1	64	11	193	0.3	33	12	510	3.59	93	< 5	< 2	89	0.5	< 2	< 2	55	0.74	0.036	8	27	0.49	185	0.02	< 3	1.59	0.02	0.08	2
97-R-57	-11300	-10500	1	55	10	177	< .3	26	11	644	3.84	110	< 5	< 2	83	0.6	2	< 2	61	0.77	0.054	8	26	0.61	218	0.03	3	1.65	0.02	0.08	5
97-R-58	-11300	-10400	2	45	20	191	< .3	32	17	830	4.72	31	< 5	< 2	40	< .2	< 2	< 2	82	0.36	0.154	6	32	0.68	240	0.04	< 3	2.44	0.01	0.11	145
97-R-59	-11300	-10300	2	39	14	124	< .3	26	13	535	4.49	18	< 5	< 2	23	< .2	< 2	< 2	79	0.25	0.112	8	32	0.53	241	0.04	< 3	2.22	0.01	0.07	4
97-R-60	-11300	-10200	3	69	20	94	< .3	31	19	991	5.23	35	< 5	2	43	0.4	< 2	3	89	0.43	0.056	15	36	0.69	292	0.06	< 3	1.98	0.01	0.14	61
97-R-61	-11300	-10100	1	59	12	77	0.3	31	11	510	3.41	32	< 5	< 2	44	< .2	2	< 2	55	0.62	0.048	11	25	0.4	207	0.03	< 3	1.31	0.01	0.07	6
97-R-62	-11300	-10000	2	70	11	115	< .3	37	16	934	4.02	30	< 5	< 2	91	0.4	< 2	< 2	70	0.68	0.069	11	33	0.57	269	0.02	< 3	1.84	0.01	0.1	5
97-R-63	-11300	-10900	1	24	7	82	< .3	29	9	334	2.84	10	< 5	< 2	31	< .2	< 2	< 2	47	0.26	0.056	8	21	0.4	147	0.04	< 3	1.24	0.01	0.07	< 1
96-R-64	-11400	-10000	1	46	13	79	< .3	27	12	643	4.05	17	< 5	< 2	42	< .2	2	< 2	70	0.59	0.062	11	33	0.68	183	0.07	< 3	1.68	0.02	0.06	4
96-R-65	-11400	-9900	1	35	6	84	< .3	20	9	397	3.03	12	< 5	< 2	28	< .2	< 2	< 2	57	0.3	0.046	7	25	0.54	120	0.07	< 3	1.43	0.01	0.07	2
96-R-66	-11400	-9800	2	88	17	128	< .3	30	17	1651	5.13	36	< 5	< 2	40	0.5	< 2	< 2	80	0.54	0.06	24	34	0.77	232	0.05	< 3	2.08	0.02	0.08	3
96-R-67	-11400	-9700	1	40	10	122	< .3	22	12	767	3.84	17	< 5	< 2	28	< .2	< 2	2	66	0.5	0.117	8	28	0.64	191	0.05	4	1.97	0.02	0.08	2
96-R-68	-11400	-9600	1	29	13	87	< .3	23	11	782	3.22	22	< 5	< 2	32	0.4	< 2	< 2	61	0.46	0.06	13	23	0.45	197	0.05	3	1.59	0.01	0.07	1
96-R-69	-11400	-9500	1	36	11	102	< .3	23	12	713	3.69	22	< 5	< 2	38	0.4	< 2	< 2	66	0.67	0.054	13	27	0.54	244	0.04	< 3	2.02	0.02	0.07	3
96-R-70	-11600	-10000	2	81	77	788	2	38	15	670	5.21	1044	< 5	< 2	27	2.8	6	< 2	56	0.14	0.054	10	26	0.35	268	0.03	< 3	1.66	0.01	0.11	37
96-R-71	-11600	-10100	2	153	181	1419	1.8	44	22	1602	7.79	606	< 5	< 2	54	7.9	10	5	67	0.62	0.19	12	38	0.49	424	0.02	< 3	1.78	0.02	0.17	39
96-R-72	-11600	-10200	1	54	15	172	0.3	30	15	862	4.97	44	< 5	< 2	48	0.8	< 2	< 2	85	0.55	0.102	9	31	0.68	397	0.05	< 3	2.43	0.01	0.1	18
96-R-73	-11600	-10300	1	46	21	247	0.5	21	17	2976	5.35	27	< 5	< 2	32	1.1	< 2	2	82	0.38	0.342	8	36	0.64	570	0.05	< 3	2.38	0.01	0.09	18
96-R-74	-11600	-10400	2	81	16	160	0.3	39	19	1535	5.12	48	< 5	< 2	41	1	< 2	< 2	72	0.52	0.095	15	35	0.68	326	0.02	< 3	2.09	0.02	0.09	24
96-R-75	-11600	-10500	2	57	19	144	0.9	37	22	1614	4.82	46	< 5	< 2	43	1.2	< 2	< 2	68	0.53	0.088	14	32	0.58	284	0.03	< 3	1.71	0.02	0.09	4
96-R-76	-11600	-10600	2	139	12	136	< .3	31	14	392	3.24	36	< 5	< 2	31	0.5	2	< 2	51	0.2	0.025	8	24	0.38	153	0.03	< 3	1.42	0.01	0.07	11
96-R-77	-11600	-10700	1	31	7	72	< .3	27	11	401	3.07	15	< 5	< 2	38	0.5	< 2	< 2	53	0.24	0.026	8	24	0.46	152	0.04	< 3	1.51	0.02	0.07	2
96-R-78	-11600	-10800	1	59	15	110	< .3	34	11	494	3.77	22	< 5	< 2	29	0.5	< 2	< 2	62	0.24	0.1	8	26	0.4	221	0.03	< 3	1.66	0.01	0.08	3
96-R-79	-11600	-10900	1	38	5	72	< .3	26	9	351	3.05	14	< 5	< 2	34	< .2	< 2	< 2	55	0.3	0.032	8	24	0.51	221	0.02	< 3	1.81	0.01	0.09	< 1
96-R-80	-11600	-11000	1	56	10	139	0.3	32	11	535	2.81	15	< 5	< 2	28	0.2	3	< 2	49	0.28	0.099	8	24	0.46	233	0.05	4	1.5	0.01	0.13	1
96-R-81	-11500	-10000	2	299	27	247	< .3	60	19	564	4.52	213	< 5	< 2	19	0.3	< 2	< 2	61	0.17	0.067	9	31	0.41	166	0.03	< 3	2.01	0.01	0.07	24
96-R-82	-11500	-10100	1	115	82	445	1	43	12	547	4.33	382	< 5	2	25	1.1	7	< 2	54	0.17	0.067	11	27	0.38	166	0.03	< 3	1.39	0.01	0.07	14
96-R-83	-11500	-10200	1	75	251	1559	4.6	41	24	2189	8.67	1388	< 5	< 2	39	9.8	13	< 2	65	0.32	0.342	12	33	0.41	543	0.03	< 3	2	0.02	0.16	12
96-R-84	-11500	-10300	1	59	15	111	< .3	33	12	544	4.67	30	< 5	2	39	0.4	< 2	< 2	79	0.45	0.045	20	33	0.79	356	0.05	< 3	2.29	0.02	0.08	2
96-R-85	-11500	-10400	1	119	16	175	1	42	12	739	4.39	52	< 5	< 2	60	0.5	3	< 2	62	0.71	0.05	17	31	0.56	375	0.04	3	2.03	0.02	0.08	4
96-R-86	-11500	-10500	1	39	16	183	0.3	37	11	496	3.23	24	< 5	< 2	30	0.4	< 2	< 2	51	0.26	0.035	8	24	0.47	123	0.04	< 3	1.41	0.01	0.07	4
96-R-87	-11500	-10600	1	95	13	171	0.4	30	13	708	3.61	50	< 5	< 2	99	0.5	< 2	< 2	54	1.21	0.08	10	27	0.59	206	0.03	< 3	1.66	0.01	0.09	1
96-R-88	-11500	-10700	1	118	7	121	< .3	33	9	446	3.37	27	< 5	< 2	55	0.2	< 2	< 2	55	0.49	0.05	11	25	0.48	239	0.03	4	1.66	0.02	0.08	2
96-R-89	-11500	-10800	2	91	11	115	0.3	33	11	604	3.32	23	< 5	< 2	33	0.3	2	< 2	59	0.3	0.07	13	28	0.43	282	0.04	5	1.75	0.01	0.08	19
96-R-90	-11500	-10900	1	31	7	70	< .3	22	9	293	2.72	8	< 5	< 2	38	< .2	< 2	< 2	47	0.27	0.044	10	23	0.45	172	0.04	< 3	1.38	0.01	0.08	< 1
96-R-91	-11500	-11000	< 1	31	< 3	47	0.5	21	7	340	2.34	5	15	3	29	< .2	< 2	< 2	42	0.21	0.036	8	17	0.31	139	0.04	< 3	1.17	0.01	0.06	1
97-R-92	-11600	-9900	1	108	24	136	< .3	39	9	320	3.4	199	< 5	< 2	25	0.3	3	< 2	49	0.24	0.039	15	23	0.33	122	0.05	3	1.01	0.01	0.06	8
97-R-93	-11600	-9800	1	65	22	92	< .3	29	9	384	2.94	72	< 5	< 2	25	0.4	2	3	50	0.28	0.053	8	21	0.36	125	0.05	3	1.14	0.01	0.06	18
97-R-94	-11600	-9700	1	108	27	186	< .3	57	15	310	3.7	144	< 5	< 2	25	0.9	2	< 2	51	0.22	0.051	7	23	0.38	126	0.04	< 3	1.51	0.01	0.05	30
97-R-95	-11600	-9600	4	326	20	174	1.5	76	14	272	6.43	258	< 5	2	13	< .2	2	< 2	60	0.08	0.216	6	30	0.27	114	0.02	3	2.66	0.01	0.05	22
97-R-96	-11600	-9500	< 1	128	17	212	< .3	50	13	627	3.13	143	5	< 2	28	0.5	< 2	< 2	51	0.22	0.048	17	24	0.38	192	0.04	< 3	1.62	0.01	0.05	14
97-R-97	-11600	-9400	1	34	15	91	< .3	28	11	639	2.92	37	< 5	< 2	40	0.4	< 2	< 2	52	0.43	0.063	13	23	0.44	163	0.06	5	1.25	0.02	0.07	9
97-R-98	-11600	-9300	2	95	19	112	< .3	22	14	655	3.73	11	5	< 2	38	< .2	< 2	< 2	66	1.07	0.067	11	30	0.69	264	0.03	3	1.91	0.02	0.07	< 1

Property Scale C-horizon Geochemistry

SAMPLES	Westing	Southing	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	Au*
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppb
97-R-99	-11600	-9200	4	56	23	161	< .3	37	17	684	9.92	19	< 5	< 2	34	< .2	< 2	< 2	109	0.83	0.089	11	44	1.64	238	0.1	< 3	2.55	0.03	0.09	1
97-R-100	-11600	-8975	1	29	17	112	< .3	35	16	398	4.1	5	< 5	< 2	43	0.2	< 2	< 2	76	0.83	0.032	11	36	1.08	264	0.06	< 3	2.31	0.03	0.07	1
97-R-101	-11600	-8900	1	39	14	95	< .3	24	11	767	3.67	22	< 5	< 2	46	0.4	< 2	< 2	63	0.67	0.048	13	29	0.64	222	0.04	5	1.62	0.03	0.07	1
97-R-102	-11600	-8800	< 1	61	15	163	< .3	33	14	1708	4.39	19	6	< 2	49	1.7	< 2	< 2	70	1.52	0.075	14	32	0.73	305	0.02	3	2.24	0.03	0.1	2
97-R-103	-11600	-8700	1	36	14	106	< .3	25	11	718	3.52	14	6	< 2	35	0.9	< 2	< 2	59	0.77	0.045	13	25	0.55	217	0.04	3	1.78	0.02	0.08	1
97-R-104	-11600	-8600	1	20	12	119	< .3	23	13	1250	3.55	10	< 5	< 2	31	0.9	< 2	< 2	63	0.38	0.032	18	27	0.58	219	0.06	< 3	1.87	0.02	0.06	1
97-R-105	-11600	-8500	1	77	21	142	< .3	34	20	1131	5.77	24	< 5	2	32	1	< 2	< 2	93	0.58	0.046	15	39	1.05	405	0.04	< 3	2.5	0.03	0.12	23
97-R-106	-11500	-9400	3	113	22	171	0.6	30	19	1493	5.94	31	< 8	< 2	27	0.3	< 3	< 3	95	0.53	0.098	10	39	0.9	358	0.04	< 3	2.61	0.02	0.09	3
97-R-107	-11500	-9300	2	102	15	146	0.4	27	16	1290	4.21	24	< 8	< 2	39	< .2	< 3	< 3	69	1.14	0.074	14	31	0.78	368	0.03	< 3	1.85	0.02	0.08	2
97-R-108	-11500	-9200	1	39	15	103	< .3	28	14	825	3.95	21	< 8	< 2	32	< .2	< 3	< 3	68	0.47	0.06	11	33	0.66	184	0.07	< 3	1.79	0.03	0.11	1
97-R-109	-11500	-9100	1	25	9	118	< .3	25	12	766	3.48	24	< 8	< 2	31	< .2	< 3	< 3	59	0.76	0.063	11	25	0.54	279	0.03	< 3	1.6	0.02	0.06	< 1
97-R-110	-11500	-9000	1	58	19	131	0.4	27	17	2069	4.34	17	< 8	< 2	28	< .2	< 3	< 3	62	0.84	0.062	14	31	0.7	476	0.02	< 3	2.19	0.02	0.09	3
97-R-111	-11500	-8900	1	35	15	206	0.3	27	18	2048	5.48	27	< 8	< 2	23	< .2	< 3	< 3	85	0.75	0.083	20	30	0.54	460	0.04	< 3	3.19	0.01	0.07	< 1
97-R-112	-11500	-8800	1	34	11	150	< .3	29	16	1284	3.98	25	< 8	< 2	26	0.2	< 3	< 3	66	0.68	0.039	13	30	0.63	370	0.03	< 3	2.21	0.02	0.08	< 1
97-R-113	-11500	-8700	1	17	13	128	< .3	20	11	703	3.93	23	< 8	< 2	28	< .2	< 3	< 3	69	0.48	0.082	12	23	0.45	239	0.03	< 3	2.42	0.01	0.06	< 1
97-R-114	-11500	-8600	1	23	6	70	< .3	22	12	1008	3.25	20	< 8	< 2	30	< .2	< 3	< 3	57	0.6	0.029	9	25	0.58	174	0.04	< 3	1.54	0.02	0.07	1
97-R-115	-11500	-8500	1	34	12	111	< .3	28	11	817	3.42	21	< 8	< 2	30	0.2	< 3	< 3	59	0.65	0.06	17	28	0.51	236	0.03	< 3	1.72	0.02	0.09	< 1
97-R-116	-11400	-10100	1	92	29	460	1.6	52	13	765	4.04	171	< 8	< 2	36	0.6	3	3	50	0.43	0.051	17	29	0.4	186	0.01	< 3	1.43	0.02	0.1	17
97-R-117	-11400	-10200	1	82	34	336	0.3	44	13	773	4.4	165	< 8	< 2	23	< .2	3	< 3	58	0.25	0.063	11	27	0.36	192	0.03	< 3	1.27	0.01	0.06	26
97-R-118	-11400	-10300	2	44	14	101	< .3	27	12	592	4.16	35	< 8	< 2	26	< .2	< 3	< 3	73	0.29	0.046	8	27	0.55	282	0.04	< 3	2.06	0.01	0.07	2
97-R-119	-11400	-10400	3	85	19	204	0.4	35	15	358	4.54	23	< 8	2	68	0.3	< 3	< 3	103	0.8	0.085	13	41	1.02	324	0.07	< 3	1.95	0.03	0.1	4
97-R-120	-11400	-10500	5	22	15	146	< .3	22	15	606	4.81	27	< 8	< 2	79	< .2	< 3	4	68	0.94	0.069	9	31	0.63	220	0.04	< 3	1.78	0.02	0.07	2
97-R-121	-11400	-10600	1	73	10	178	0.3	33	13	767	4.39	28	< 8	< 2	83	0.6	< 3	< 3	69	0.87	0.059	11	32	0.75	235	0.03	< 3	1.99	0.03	0.1	2
97-R-122	-11400	-10700	2	41	12	111	< .3	29	15	1269	3.83	31	< 8	< 2	93	< .2	< 3	< 3	60	0.98	0.063	9	29	0.61	222	0.03	< 3	1.81	0.02	0.1	2
97-R-123	-11400	-10800	1	49	7	65	< .3	29	8	295	3.11	15	< 8	2	33	< .2	< 3	< 3	46	0.21	0.035	9	23	0.42	150	0.04	< 3	1.32	0.02	0.06	3
97-R-124	-11400	-10900	1	28	8	69	< .3	33	11	457	3.3	14	< 8	< 2	33	< .2	< 3	< 3	51	0.21	0.041	8	24	0.46	155	0.04	< 3	1.42	0.02	0.08	1
97-R-125	-11400	-11000	1	25	11	78	< .3	30	10	387	3.28	13	< 8	< 2	30	< .2	< 3	< 3	51	0.25	0.062	8	25	0.46	135	0.04	< 3	1.38	0.02	0.09	< 1
97-R-126	-11500	-9900	1	53	13	76	< .3	24	8	336	3.35	49	< 8	< 2	20	< .2	< 3	< 3	55	0.21	0.048	6	21	0.33	137	0.05	< 3	1.12	0.01	0.04	4
97-R-127	-11500	-9800	1	28	6	96	< .3	24	9	365	3.38	28	< 8	< 2	22	< .2	< 3	< 3	59	0.26	0.074	6	21	0.36	160	0.05	< 3	1.45	0.01	0.05	1
97-R-128	-11500	-9700	2	46	13	104	< .3	30	13	795	3.93	37	< 8	< 2	41	< .2	< 3	< 3	63	0.5	0.069	14	28	0.51	217	0.05	< 3	1.63	0.03	0.1	3
97-R-129	-11500	-9600	2	58	17	136	< .3	32	17	1708	4.71	39	< 8	< 2	35	0.2	< 3	< 3	77	0.51	0.073	13	30	0.84	227	0.05	< 3	1.94	0.03	0.09	6
97-R-130	-11500	-9500	4	161	17	156	0.4	34	21	1359	5.38	25	< 8	< 2	34	< .2	< 3	< 3	86	0.67	0.061	17	40	0.85	271	0.05	< 3	2.27	0.02	0.09	5
97-R-131	-11300	-9900	3	49	4	94	< .3	50	14	434	4.16	27	< 8	2	13	< .2	< 3	< 3	39	0.08	0.057	16	32	0.3	150	0.01	< 3	1.53	0.01	0.07	5
97-R-132	-11300	-9800	1	24	16	170	< .3	30	10	395	3.84	25	< 8	< 2	28	< .2	< 3	< 3	61	0.26	0.157	6	25	0.42	186	0.03	< 3	1.94	0.01	0.04	1
97-R-133	-11300	-9700	1	28	13	95	< .3	22	10	629	3.45	24	< 8	< 2	28	< .2	< 3	< 3	61	0.36	0.059	9	22	0.45	175	0.06	< 3	1.44	0.02	0.06	5
97-R-134	-11300	-9600	1	36	13	272	< .3	26	10	521	3.63	25	< 8	< 2	36	< .2	< 3	< 3	64	0.64	0.055	12	28	0.58	225	0.04	< 3	1.77	0.02	0.07	2
97-R-135	-11300	-9500	1	68	18	115	< .3	27	15	1131	4.19	28	< 8	< 2	45	0.2	< 3	< 3	74	1.01	0.063	13	29	0.63	296	0.03	< 3	1.88	0.02	0.08	3
97-R-136	-11300	-9400	1	62	17	116	0.3	44	20	1164	4.76	30	< 8	< 2	46	< .2	< 3	< 3	82	0.71	0.062	13	39	0.79	345	0.03	< 3	2.43	0.03	0.13	9
97-R-137	-11300	-9300	2	176	13	228	0.4	20	35	4845	8.3	15	< 8	< 2	27	< .2	< 3	< 3	182	0.81	0.102	14	46	1.06	1112	0.12	< 3	2.72	0.01	0.09	< 1
97-R-138	-11300	-9200	1	20	8	137	0.3	25	12	699	3.7	21	< 8	< 2	21	0.2	< 3	< 3	67	0.46	0.038	10	31	0.52	273	0.05	< 3	2.07	0.01	0.07	1
97-R-139	-11300	-9100	1	30	10	59	< .3	22	11	597	3.32	17	< 8	< 2	24	< .2	< 3	< 3	57	0.32	0.022	6	24	0.45	124	0.07	< 3	1.24	0.03	0.09	< 1
97-R-140	-11300	-9000	1	16	9	162	< .3	15	9	519	4.26	25	< 8	< 2	16	< .2	< 3	< 3	69	0.27	0.038	5	21	0.43	312	0.03	< 3	1.8	0.01	0.09	1
97-R-141	-11300	-8900	1	19	8	82	< .3	16	9	487	3.43	17	< 8	< 2	17	< .2	< 3	< 3	54	0.27	0.025	8	19	0.44	341	0.04	< 3	1.61	0.01	0.1	7
97-R-142	-11300	-8800	1	20	17	80	< .3	25	12	575	3.72	17	< 8	< 2	22	< .2	< 3	< 3	69	0.37	0.034	8	26	0.62	294	0.04	< 3	2.14	0.01	0.06	1
97-R-143	-11300	-8700	2	14	13	83	< .3	15	10	512	5.45	15	< 8	< 2	14	< .2	< 3	< 3	78	0.23	0.048	8	23	0.4	221	0.01	< 3	2.06	0.01	0.1	2
97-R-144	-11300	-8600	1	10	15	76	< .3	15	9	552	5.03	9	< 8	< 2	14	< .2	< 3	< 3	71	0.22	0.036	7	19	0.36	329	0.02	< 3	2.09	0.01	0.1	2
97-R-145	-11300	-8500	2	38	16	69	< .3	12	17	480	6.95	35	< 8	< 2	27	< .2	< 3	3	51	0.31	0.13	12	14	0.25	253	< .01	< 3	2.39	0.02	0.11	1
97-R-146	-11100	-9400	2	974	14	96	0.3	28	161	1166	12.96	58	< 8	< 2	13	< .2	< 3	< 3	154	0.36	0.07	9	17	0.34	270	0.01	< 3	1.36	0.01	0.02	4
97-R-147	-11100	-9401	1	83	17	154	< .3	17	27	1482	6.25	10	< 8	< 2	23	< .2	< 3	< 3	82	0.69	0.08	9	22	0.77	505	0.03	< 3	2.63	0.01	0.07	2

SAMPLES	Westing	Southing	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	Au*
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppb
97-R-148	-11100	-9450	< 1	83	10	355	0.3	53	43	3388	8.31	14	< 8	< 2	18	0.7	< 3	< 3	226	0.83	0.071	3	93	1.48	308	0.15	< 3	2.99	0.01	0.08	< 1
97-R-149	-11100	-9550	1	114	7	221	0.3	26	29	2191	7.39	14	< 8	< 2	19	< .2	< 3	< 3	241	0.41	0.065	7	38	1.65	230	0.04	< 3	2.67	0.01	0.06	< 1
97-R-150	-11150	-9600	1	34	17	299	0.5	21	12	931	3.92	9	< 8	< 2	19	0.3	< 3	< 3	84	0.49	0.053	6	31	0.53	202	0.05	3	1.65	0.01	0.08	2
97-R-151	-11150	-9550	1	38	13	90	< .3	25	12	497	3.81	24	< 8	< 2	22	< .2	< 3	< 3	74	0.3	0.037	7	26	0.53	249	0.04	< 3	2.16	0.01	0.03	64
97-R-152	-11150	-9500	1	52	13	115	< .3	33	16	761	4.75	15	< 8	2	17	< .2	< 3	< 3	105	0.37	0.029	8	39	1.19	198	0.04	< 3	2.16	0.01	0.06	2
97-R-153	-11150	-9450	1	55	30	178	1	29	25	3799	5.69	15	< 8	< 2	15	0.5	< 3	< 3	115	1.02	0.133	20	34	0.71	222	0.01	< 3	3.28	0.01	0.06	1
97-R-154	-11150	-9400	1	40	8	343	< .3	19	17	1010	5.15	8	< 8	< 2	16	0.3	< 3	< 3	133	0.41	0.037	8	27	0.78	208	0.05	< 3	2.22	0.01	0.05	7
97-R-155	-11150	-9350	1	163	15	149	0.7	13	30	4238	6.98	21	< 8	< 2	24	0.6	< 3	< 3	78	1.08	0.275	76	17	0.54	918	0.02	< 3	2.67	0.01	0.1	< 1
97-R-156	-11150	-9300	1	16	21	114	< .3	8	14	1815	7.79	12	< 8	< 2	13	< .2	< 3	< 3	60	0.44	0.098	15	12	0.2	365	< .01	< 3	1.43	0.01	0.08	< 1
97-R-157	-11200	-10100	2	61	8	90	< .3	25	15	822	4.55	22	< 8	< 2	37	< .2	< 3	< 3	74	0.36	0.061	11	31	0.66	203	0.05	< 3	1.77	0.01	0.1	41
97-R-158	-11200	-10200	2	46	11	197	0.5	23	15	1412	5.36	25	< 8	< 2	37	0.3	< 3	< 3	81	0.48	0.189	10	41	0.59	408	0.04	< 3	2.21	0.01	0.1	5
97-R-159	-11200	-10300	2	23	16	140	0.6	26	10	644	2.81	23	< 8	< 2	30	0.3	< 3	< 3	49	0.29	0.06	10	23	0.29	184	0.03	< 3	1.18	0.01	0.08	< 1
97-R-160	-11200	-10400	2	41	17	134	1.1	48	13	574	3.7	47	< 8	< 2	51	0.4	< 3	< 3	49	0.48	0.043	12	32	0.36	180	0.02	< 3	1.59	0.01	0.07	6
97-R-161	-11200	-10500	2	47	4	70	0.6	22	7	503	2.91	27	12	< 2	66	0.3	< 3	< 3	51	0.61	0.079	12	23	0.38	152	0.03	< 3	1.16	0.02	0.05	2
97-R-162	-11200	-10600	3	89	29	163	0.6	42	20	1395	4.08	167	< 8	< 2	55	0.6	< 3	< 3	55	0.48	0.079	12	25	0.38	224	0.04	< 3	1.15	0.02	0.06	16
97-R-163	-11200	-10700	1	41	5	75	< .3	28	11	483	2.99	16	< 8	< 2	33	< .2	< 3	< 3	51	0.23	0.044	10	25	0.38	153	0.04	< 3	1.28	0.01	0.07	2
97-R-164	-11200	-10800	2	26	< 3	64	< .3	24	8	318	2.67	13	< 8	< 2	32	< .2	< 3	< 3	47	0.22	0.038	9	23	0.41	135	0.04	< 3	1.22	0.01	0.06	3
97-R-165	-11200	-10900	1	30	10	65	0.3	24	11	606	3.01	17	< 8	< 2	26	< .2	< 3	< 3	51	0.19	0.069	9	22	0.37	175	0.03	< 3	1.21	0.01	0.07	5
97-R-166	-11050	-9300	1	70	25	111	1.1	27	15	1804	5.27	25	< 8	< 2	35	< .2	< 3	4	59	1.35	0.158	50	25	0.39	643	0.01	< 3	4.03	0.01	0.09	2
97-R-167	-11050	-9350	1	23	14	200	< .3	31	21	1301	5.69	13	< 8	< 2	28	< .2	< 3	< 3	104	0.88	0.12	23	51	0.5	361	0.02	< 3	2.69	0.01	0.08	1
97-R-168	-11050	-9400	1	30	17	81	< .3	26	14	1005	3.88	17	< 8	< 2	26	< .2	< 3	< 3	72	0.45	0.039	11	28	0.49	383	0.04	< 3	1.89	0.01	0.04	1
97-R-169	-11050	-9450	1	176	15	116	0.3	21	31	2155	8	13	< 8	< 2	20	< .2	< 3	< 3	172	0.7	0.06	9	23	0.88	420	0.06	< 3	2.3	0.01	0.08	2
97-R-170	-11050	-9500	2	82	23	190	0.4	16	32	3324	10.09	30	< 8	< 2	16	0.2	< 3	< 3	123	0.5	0.11	12	19	0.39	336	0.02	< 3	1.79	0.01	0.11	1
97-R-171	-11050	-9550	2	54	20	175	0.4	25	23	3675	7.12	95	< 8	< 2	19	0.2	< 3	< 3	107	0.46	0.09	15	28	0.45	514	0.04	< 3	2.37	0.01	0.1	2
97-R-172	-11050	-9600	3	39	20	110	0.4	13	90	2275	11.25	74	< 8	< 2	31	0.4	< 3	8	73	0.8	0.149	20	15	0.26	515	0.02	< 3	1.94	0.01	0.16	4
97-R-173	-9600	-9600	2	49	15	143	0.5	32	16	1011	5.72	33	< 8	< 2	17	< .2	3	< 3	91	0.15	0.073	11	47	0.87	163	0.03	< 3	3.23	0.01	0.06	1
97-R-174	-9600	-9700	1	51	6	138	0.3	34	14	588	5.81	43	< 8	< 2	12	< .2	< 3	< 3	94	0.1	0.071	10	43	0.85	122	0.03	< 3	3.6	0.01	0.06	2
97-R-175	-9600	-9800	< 1	31	5	113	0.3	24	12	364	4.86	26	< 8	< 2	13	< .2	< 3	< 3	87	0.09	0.084	8	31	0.6	125	0.03	< 3	3.31	0.01	0.04	1
97-R-176	-9600	-9900	3	116	9	227	0.6	32	15	625	6.03	38	< 8	< 2	12	0.2	< 3	< 3	105	0.12	0.093	8	42	0.91	123	0.03	< 3	4.32	0.01	0.07	3
97-R-177	-9600	-10000	1	79	14	121	0.3	31	17	613	5.34	38	< 8	< 2	13	< .2	< 3	< 3	93	0.11	0.056	8	35	0.81	128	0.03	< 3	3.44	0.01	0.06	9
97-R-178	-9600	-10100	1	43	16	187	< .3	31	14	580	5.74	35	< 8	< 2	13	< .2	< 3	< 3	101	0.12	0.103	8	39	0.87	138	0.03	< 3	3.67	0.01	0.07	2
97-R-179	-9600	-10200	< 1	47	11	107	< .3	30	15	453	4.55	34	< 8	< 2	16	0.2	< 3	< 3	82	0.11	0.05	8	33	0.67	180	0.04	< 3	2.99	0.01	0.05	2
97-R-180	-9600	-10300	3	91	11	98	< .3	31	21	452	4.7	28	< 8	< 2	13	0.2	< 3	< 3	80	0.08	0.044	10	39	0.69	125	0.03	< 3	3.33	0.01	0.05	9
97-R-181	-9600	-10400	3	84	8	135	0.4	37	18	635	6.43	41	< 8	< 2	16	< .2	< 3	< 3	96	0.13	0.082	9	63	0.78	129	0.03	< 3	3.47	0.01	0.07	5
97-R-182	-9600	-10500	2	93	10	95	0.3	35	15	579	5.66	41	< 8	< 2	17	< .2	< 3	< 3	82	0.13	0.042	14	49	0.91	133	0.03	< 3	2.95	0.01	0.06	21
97-R-183	-9500	-9600	3	56	10	162	0.7	25	18	1003	7.65	268	< 8	< 2	11	0.4	< 3	< 3	90	0.08	0.095	8	37	0.74	94	0.02	< 3	2.71	0.01	0.06	21
97-R-184	-9500	-9800	2	50	12	116	< .3	31	13	502	4.79	29	< 8	< 2	16	< .2	< 3	< 3	82	0.11	0.051	8	33	0.74	148	0.02	< 3	3.2	0.01	0.06	5
97-R-185	-9500	-10000	3	43	11	126	0.4	26	12	410	5.45	54	< 8	< 2	8	< .2	< 3	< 3	91	0.07	0.062	6	37	0.75	81	0.02	< 3	4.46	0.01	0.05	3
97-R-186	-9500	-10200	2	172	6	125	0.3	32	15	663	5.25	33	< 8	< 2	11	< .2	< 3	< 3	82	0.08	0.093	8	35	0.63	134	0.02	< 3	4.78	0.01	0.06	30
97-R-187	-9500	-10400	2	47	10	99	0.3	30	17	555	4.59	25	< 8	< 2	20	< .2	< 3	< 3	76	0.2	0.045	9	28	0.64	213	0.03	< 3	2.92	0.01	0.07	4
97-R-188	-9300	-9700	1	49	8	126	< .3	34	18	941	4.92	27	< 8	< 2	20	0.3	< 3	< 3	80	0.34	0.062	9	42	0.87	149	0.03	4	3.05	0.01	0.07	2
97-R-189	-9300	-9800	1	159	12	121	< .3	31	16	794	4.37	36	< 8	< 2	20	0.2	< 3	< 3	75	0.18	0.03	10	36	0.73	163	0.03	3	2.63	0.01	0.06	8
97-R-190	-9300	-9900	2	98	11	162	0.5	32	12	584	4.52	57	< 8	< 2	24	0.7	< 3	< 3	78	0.62	0.069	18	47	0.61	410	0.01	< 3	3.3	0.01	0.06	4
97-R-191	-9300	-10000	1	95	9	169	< .3	36	19	1032	5.41	57	< 8	< 2	21	0.3	< 3	< 3	91	0.42	0.061	11	46	0.84	173	0.02	3	2.71	0.01	0.06	5
97-R-192	-9300	-10100	1	57	15	127	< .3	31	15	774	4.57	25	< 8	< 2	23	< .2	< 3	< 3	93	0.36	0.042	11	38	0.9	272	0.03	< 3	2.98	0.02	0.06	7
97-R-193	-9300	-10200	< 1	68	12	99	< .3	27	12	766	3.67	21	< 8	< 2	29	< .2	< 3	< 3	64	0.45	0.054	17	30	0.84	177	0.03	3	2.12	0.02	0.08	1
97-R-194	-9300	-10300	1	89	12	170	< .3	34	17	778	4.84	49	< 8	< 2	17	0.5	< 3	< 3	74	0.14	0.045	12	37	0.73	165	0.02	3	3.36	0.01	0.07	9
97-R-195	-9300	-10400	< 1	46	13	199	0.3	19	15	950	5.07	48	< 8	< 2	17	0.4	< 3	< 3	82	0.15	0.112	9	28	0.43	179	0.02	4	2.55	0.01	0.07	4
97-R-196	-9300	-10500	1	32	8	89	< .3	25	13	612	3.81	22	< 8	< 2	23	0.2	< 3	< 3	72	0.36	0.044	9	29	0.7	161	0.02	3	2.5	0.01	0.06	1

SAMPLES	Westing	Southing	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	Au* ppb
97-R-197	-9400	-9500	2	31	9	93	0.3	22	11	492	5	31	< 8	< 2	19	0.2	< 3	< 3	91	0.18	0.069	6	31	0.51	139	0.04	3	2.2	0.01	0.06	1
97-R-198	-9400	-9600	1	167	3	115	< .3	36	18	1007	5.34	27	< 8	< 2	19	< .2	< 3	< 3	115	0.37	0.053	13	56	1.61	162	0.06	3	2.93	0.01	0.13	16
97-R-199	-9400	-9700	1	49	9	87	0.3	20	9	453	3.42	20	< 8	< 2	21	0.2	< 3	< 3	69	0.31	0.078	9	32	0.6	164	0.01	4	2.62	0.01	0.06	1
97-R-200	-9400	-9800	1	42	10	107	< .3	25	16	717	3.65	26	< 8	< 2	24	0.2	< 3	< 3	67	0.49	0.058	8	29	0.55	205	0.03	3	2.12	0.01	0.05	1
97-R-201	-9400	-9900	< 1	60	8	125	< .3	28	16	955	4.2	28	< 8	< 2	26	0.3	< 3	< 3	73	0.35	0.065	8	32	0.74	178	0.03	3	2.63	0.01	0.06	2
97-R-202	-9400	-10000	1	39	10	99	< .3	20	10	338	5.06	28	< 8	< 2	14	0.2	< 3	< 3	107	0.15	0.037	6	30	0.63	103	0.04	< 3	2.48	0.01	0.05	1
97-R-203	-9400	-10100	1	142	8	73	< .3	18	9	393	4.86	21	< 8	< 2	11	< .2	< 3	3	97	0.09	0.088	8	47	0.36	103	0.03	< 3	1.61	0.01	0.04	66
97-R-204	-9400	-10200	1	39	13	95	< .3	30	15	812	4.25	26	< 8	< 2	22	0.3	< 3	3	78	0.16	0.028	10	34	0.65	288	0.02	< 3	2.89	0.01	0.05	4
97-R-205	-9400	-10300	1	50	9	111	< .3	26	11	313	4.18	26	< 8	< 2	11	0.3	< 3	< 3	78	0.06	0.081	8	31	0.62	116	0.02	< 3	3.86	0.01	0.05	1
97-R-206	-9400	-10400	1	30	11	73	< .3	25	11	448	3.33	28	< 8	< 2	24	0.3	< 3	< 3	63	0.17	0.042	9	26	0.45	180	0.02	< 3	1.86	0.01	0.05	2
97-R-207	-9400	-10500	< 1	40	13	117	< .3	24	16	1022	3.8	109	< 8	< 2	26	< .2	< 3	< 3	62	0.4	0.059	11	30	0.58	168	0.04	4	1.78	0.01	0.06	13
97-R-208	-9000	-10500	1	40	21	173	< .3	41	16	879	5.75	30	< 8	< 2	27	< .2	< 3	< 3	84	0.54	0.074	12	46	0.86	224	0.01	< 3	3.59	0.01	0.07	1
97-R-209	-9400	-9400	1	48	12	93	< .3	35	16	836	4.25	19	< 8	2	26	0.3	< 3	< 3	72	0.16	0.093	9	32	0.52	207	0.02	< 3	2.68	0.01	0.05	2
97-R-210	-9400	-9300	1	21	10	89	< .3	25	11	496	3.33	15	< 8	< 2	20	< .2	< 3	< 3	62	0.2	0.053	7	26	0.5	137	0.02	< 3	1.69	0.01	0.05	1
97-R-211	-9400	-9200	1	46	10	93	< .3	32	13	711	3.76	17	< 8	< 2	28	< .2	< 3	< 3	66	0.41	0.054	12	32	0.59	215	0.03	< 3	1.87	0.01	0.06	2
97-R-212	-9400	-9000	1	22	6	123	0.5	22	8	440	4.63	16	< 8	< 2	13	< .2	< 3	< 3	83	0.13	0.125	7	31	0.59	127	0.03	< 3	2.52	0.01	0.04	2
97-R-213	-9200	-9000	1	41	10	98	< .3	33	13	577	4.09	17	< 8	2	27	< .2	< 3	< 3	72	0.18	0.04	9	32	0.55	217	0.01	< 3	2.36	0.01	0.05	1
97-R-214	-9200	-9100	1	33	9	93	< .3	31	12	568	3.74	15	< 8	< 2	26	< .2	< 3	< 3	67	0.28	0.052	9	29	0.49	187	0.01	< 3	2.11	0.01	0.05	1
97-R-215	-9200	-9200	1	26	5	96	< .3	25	9	475	3.22	13	< 8	< 2	32	< .2	< 3	< 3	58	0.62	0.054	13	27	0.6	208	0.03	< 3	1.91	0.01	0.06	2
97-R-216	-9200	-9300	2	30	10	92	< .3	27	12	396	3.76	10	< 8	2	18	< .2	< 3	< 3	68	0.15	0.055	8	36	0.6	134	0.07	3	2.65	0.01	0.05	1
97-R-217	-9200	-9400	1	72	13	108	0.4	34	17	1000	4.53	20	< 8	< 2	31	0.3	< 3	< 3	76	0.47	0.055	18	37	0.65	192	0.04	3	2.22	0.02	0.08	12
97-R-218	-9200	-9500	1	46	10	108	< .3	28	12	338	4.51	12	< 8	2	13	< .2	< 3	< 3	82	0.13	0.046	6	40	0.68	123	0.05	< 3	3.05	0.01	0.05	2
97-R-219	-9000	-10300	1	40	9	100	< .3	28	10	379	4.57	15	< 8	< 2	11	< .2	< 3	< 3	99	0.18	0.045	6	42	0.74	67	0.03	< 3	2.77	0.01	0.04	3
97-R-220	-9000	-10200	1	35	12	93	< .3	19	8	408	3.99	18	< 8	< 2	12	0.2	< 3	< 3	108	0.11	0.047	6	30	0.61	119	0.03	< 3	2.44	0.01	0.05	1
97-R-221	-9000	-10100	1	54	7	102	< .3	24	10	471	3.63	10	< 8	< 2	16	< .2	< 3	< 3	76	0.23	0.05	6	30	0.72	115	0.02	< 3	2.57	0.01	0.05	1
97-R-222	-9000	-10000	1	58	13	137	< .3	20	16	879	4.63	16	< 8	< 2	21	0.4	< 3	< 3	114	0.58	0.04	9	36	0.75	212	0.03	< 3	2.59	0.01	0.06	1
97-R-223	-9200	-9700	1	40	11	112	< .3	32	17	820	4.36	24	< 8	< 2	20	< .2	< 3	< 3	78	0.21	0.064	9	36	0.65	172	0.03	< 3	3	0.01	0.05	2
97-R-224	-9200	-9800	1	77	16	722	0.5	23	17	1248	5.53	30	< 8	< 2	17	1.9	< 3	< 3	113	0.36	0.091	11	39	0.85	220	0.04	< 3	2.95	0.01	0.07	4
97-R-225	-9200	-9900	1	129	12	610	< .3	27	14	977	3.89	24	< 8	< 2	26	1.8	< 3	< 3	71	0.57	0.056	15	32	0.63	206	0.03	< 3	2.09	0.01	0.06	4
97-R-226	-9200	-10000	1	246	23	202	0.4	25	19	1464	7.44	113	< 8	< 2	15	0.2	< 3	3	144	0.35	0.099	8	52	1.12	240	0.03	< 3	2.6	0.01	0.06	5
97-R-227	-9200	-10100	1	92	9	167	< .3	29	13	615	4.88	14	< 8	< 2	23	0.3	< 3	< 3	96	0.43	0.06	15	39	0.82	215	0.02	< 3	3.07	0.01	0.07	4
97-R-228	-9200	-10200	1	52	9	143	< .3	24	12	633	4.77	13	< 8	< 2	18	0.2	< 3	< 3	95	0.33	0.069	8	36	0.74	159	0.02	< 3	2.75	0.01	0.06	< 1
97-R-229	-9200	-10300	1	37	9	119	< .3	26	10	523	3.48	10	< 8	< 2	24	0.3	< 3	< 3	64	0.27	0.042	10	31	0.67	165	0.02	< 3	2.29	0.01	0.06	2
97-R-230	-9200	-10400	1	43	12	139	< .3	37	13	432	4.89	4	< 8	2	22	< .2	< 3	< 3	109	0.17	0.059	10	48	1.27	169	0.06	< 3	4.13	0.02	0.08	1
97-R-231	-9200	-10500	1	32	10	133	< .3	25	10	474	4.62	18	< 8	< 2	16	< .2	< 3	< 3	84	0.16	0.054	6	33	0.65	141	0.02	< 3	2.7	0.01	0.06	3
97-R-232	-9100	-10500	1	22	8	99	< .3	22	9	410	3.13	8	< 8	< 2	20	< .2	< 3	< 3	65	0.23	0.037	8	28	0.59	193	0.02	< 3	2.45	0.01	0.06	< 1
97-R-234	-9100	-10300	1	49	9	105	< .3	30	10	379	3.66	9	< 8	2	18	< .2	< 3	< 3	74	0.15	0.033	8	35	0.71	178	0.02	< 3	3.12	0.01	0.06	4
97-R-235	-9100	-10200	1	189	13	263	0.9	32	12	657	4.29	11	< 8	< 2	29	0.5	< 3	< 3	73	0.78	0.107	24	42	0.87	305	0.02	3	3.96	0.01	0.07	9
97-R-236	-9100	-10100	1	39	10	109	< .3	25	10	409	4.44	12	< 8	< 2	16	< .2	< 3	< 3	80	0.15	0.059	8	37	0.67	129	0.02	3	3.36	0.01	0.05	2
97-R-237	-9000	-10400	1	125	8	115	< .3	22	10	381	5.26	8	< 8	< 2	15	< .2	< 3	< 3	110	0.16	0.068	6	28	0.59	150	0.02	3	3.23	0.01	0.04	< 1
97-R-238	-9100	-10000	1	64	19	127	< .3	23	11	606	3.83	16	< 8	< 2	26	0.2	< 3	< 3	73	0.69	0.063	9	29	0.52	175	0.01	< 3	2.86	0.01	0.04	2
97-R-239	-9100	-9900	1	76	12	85	0.5	14	7	318	2.99	18	< 8	< 2	25	0.7	< 3	< 3	79	0.65	0.048	16	24	0.31	210	0.03	< 3	1.59	0.01	0.04	2
97-R-240	-9100	-9800	1	37	10	48	0.4	10	4	133	2.64	5	< 8	< 2	24	< .2	< 3	< 3	51	0.33	0.09	12	22	0.21	202	0.01	< 3	2.51	0.01	0.02	4
97-R-241	-9000	-9800	1	66	17	133	< .3	29	12	551	4.19	19	< 8	< 2	14	2	< 3	< 3	82	0.13	0.056	12	42	0.89	137	0.02	312	3.28	0.01	0.05	14
97-R-242	-9000	-9000	2	122	22	108	0.7	31	18	702	8.24	118	< 8	< 2	10	< .2	< 3	< 3	84	0.12	0.109	5	29	0.42	80	0.04	< 3	2.65	0.01	0.02	24
97-R-243	-9000	-9200	1	37	13	82	< .3	29	17	776	3.69	15	< 8	< 2	23	< .2	< 3	< 3	64	0.13	0.043	9	28	0.44	151	0.04	< 3	1.95	0.01	0.03	3
97-R-244	-9000	-9500	2	88	19	129	0.3	49	21	1902	5.06	23	< 8	< 2	30	0.4	< 3	< 3	86	0.75	0.085	26	46	0.8	306	0.01	< 3	2.89	0.01	0.06	7
97-R-245	-9000	-9600	1	43	11	121	< .3	27	13	454	4.25	17	< 8	< 2	16	< .2	< 3	< 3	78	0.12	0.055	6	33	0.7	152	0.04	< 3	2.79	0.01	0.03	3
97-R-246	-9000	-9700	1	57	9	102	< .3	25	11	358	4.49	16	< 8	< 2	15	< .2	< 3	< 3	71	0.11	0.047	6	26	0.58	139	0.02	< 3	2.58	0.01	0.05	2

Property Scale C-horizon Geochemistry

SAMPLES	Westing	Southing	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	Au*
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppb
97-R-247	-9100	-9000	1	55	17	146	< .3	28	12	450	4.35	10	< 8	< 2	14	< .2	< 3	< 3	84	0.12	0.051	8	40	0.92	130	0.03	< 3	3.14	0.01	0.03	2
97-R-248	-9100	-9100	< 1	40	10	81	1.5	27	12	711	3.47	24	< 8	< 2	32	1.2	< 3	< 3	60	0.28	0.049	19	32	0.52	302	0.03	270	1.86	0.02	0.06	31
97-R-249	-9100	-9225	1	34	11	69	0.3	26	13	958	3.2	23	< 8	2	29	0.8	< 3	< 3	55	0.34	0.037	20	29	0.48	217	0.04	254	1.51	0.02	0.05	2
97-R-250	-9100	-9300	1	37	9	90	< .3	31	13	872	3.7	26	< 8	< 2	24	1.5	< 3	< 3	61	0.24	0.049	17	33	0.57	231	0.01	283	2.47	0.01	0.06	5
97-R-251	-9100	-9500	1	70	20	200	0.8	48	17	1995	4.76	39	< 8	3	26	2.9	< 3	< 3	79	1.02	0.138	33	48	0.7	510	0.01	338	3.38	0.02	0.1	9
97-R-252	-9100	-9600	< 1	98	10	111	< .3	31	14	668	3.79	21	< 8	2	22	1.4	< 3	< 3	70	0.23	0.044	17	38	0.7	206	0.02	288	2.29	0.01	0.05	4
97-R-400	-9300	-9000	< 1	55	11	73	< .3	33	15	830	3.55	18	< 8	< 2	35	1.2	3	< 3	64	0.27	0.042	17	31	0.47	339	0.02	275	2.11	0.02	0.06	11
97-R-401	-9300	-9100	1	39	8	78	< .3	24	13	578	3.43	25	< 8	< 2	21	1.3	< 3	< 3	60	0.21	0.056	12	30	0.45	197	0.03	268	2.39	0.01	0.04	< 1
97-R-402	-9300	-9400	< 1	138	12	110	< .3	32	16	962	4.19	23	< 8	2	21	1.7	< 3	< 3	78	0.22	0.048	15	41	0.81	164	0.03	314	2.18	0.01	0.06	5
97-R-403	-9300	-9500	1	13	10	38	< .3	7	4	258	2.66	15	< 8	< 2	10	0.4	3	< 3	73	0.06	0.063	9	21	0.17	78	0.03	224	1.12	0.01	0.04	< 1
97-R-404	-9300	-9600	1	44	13	122	0.4	19	12	790	3.96	29	< 8	< 2	23	1.7	< 3	< 3	85	0.44	0.039	18	43	0.82	174	0.03	292	2.26	0.01	0.06	1
97D-13	-10800	-8550	1	431	16	97	< .3	27	11	555	3.54	19	< 5	< 2	28	0.2	< 2	< 2	62	0.36	0.061	15	30	0.51	148	0.04	< 3	1.95	0.01	0.05	2
97D-14	-10800	-8650	1	101	10	79	< .3	24	12	599	3.25	16	< 5	< 2	27	< .2	3	< 2	65	0.33	0.031	11	27	0.51	159	0.05	< 3	1.35	0.01	0.06	1
97D-15	-10800	-8750	7	110	14	177	< .3	27	17	1001	4.24	14	< 5	< 2	30	0.4	< 2	4	77	0.5	0.062	6	33	0.76	202	0.04	< 3	2.24	0.01	0.07	2
97D-16	-10675	-8775	< 1	50	10	86	< .3	23	15	999	3.89	11	< 5	< 2	39	0.4	< 2	4	77	0.59	0.058	12	29	0.74	178	0.09	< 3	1.77	0.02	0.06	2
97D-17	-10700	-8650	1	43	8	81	< .3	11	9	1259	3.7	18	< 5	< 2	24	< .2	< 2	11	61	0.5	0.046	5	20	0.17	168	0.03	< 3	1.1	0.01	0.05	1
97D-18	-10700	-8550	< 1	39	12	81	< .3	20	9	284	3.24	16	< 5	< 2	18	< .2	2	5	67	0.14	0.028	7	25	0.42	128	0.03	< 3	1.71	0.01	0.03	2
97D-19	-10600	-8550	2	76	22	116	< .3	13	9	396	5.74	20	< 5	< 2	17	< .2	3	5	90	0.25	0.051	9	25	0.28	131	0.02	< 3	2.05	0.01	0.07	1
97D-20	-10600	-8650	< 1	45	3	70	< .3	21	11	336	3.1	17	< 5	< 2	22	< .2	< 2	< 2	63	0.23	0.035	7	24	0.44	153	0.04	3	1.75	0.01	0.04	3
97D-21	-10600	-8750	< 1	34	9	89	< .3	24	15	1036	3.69	16	< 5	< 2	35	0.4	< 2	< 2	67	0.59	0.047	9	28	0.66	183	0.08	< 3	1.97	0.01	0.11	2
97D-22	-10700	-8950	4	34	7	341	< .3	6	7	249	3.04	20	< 5	< 2	47	2.3	2	5	84	0.19	0.047	6	17	0.22	101	0.05	< 3	1.15	0.01	0.03	1
97D-23	-10700	-9050	1	27	11	106	< .3	28	12	319	3.75	27	< 5	< 2	22	< .2	< 2	5	74	0.17	0.062	5	26	0.44	218	0.03	< 3	2.13	0.01	0.04	1
97D-24	-10700	-9150	6	146	20	153	< .3	38	15	1144	6.22	50	< 5	< 2	30	0.4	4	2	96	0.33	0.079	23	41	0.64	370	0.02	< 3	4.07	0.01	0.07	1
97D-25	-10600	-9150	31	132	9	268	< .3	24	17	780	4.92	29	< 5	< 2	41	0.4	< 2	3	86	0.46	0.07	12	31	0.61	616	0.02	< 3	2.57	0.01	0.07	1
97D-26	-10600	-8950	3	69	14	340	< .3	20	13	472	4.09	10	< 5	< 2	32	0.7	< 2	2	82	0.37	0.052	13	28	0.52	185	0.02	< 3	2.52	0.01	0.05	2
97D-27	-10600	-9050	1	100	19	106	< .3	33	15	993	3.84	16	< 5	< 2	42	0.4	< 2	< 2	75	0.62	0.055	24	35	0.65	338	0.02	< 3	2.47	0.01	0.07	1
97D-28	-10500	-8950	3	172	22	108	< .3	24	13	351	4.14	19	< 5	< 2	24	< .2	< 2	< 2	79	0.35	0.036	11	26	0.55	182	0.03	< 3	2.46	0.01	0.04	1
97D-29	-10500	-9050	3	118	12	91	< .3	24	13	796	3.78	25	< 5	< 2	27	0.2	< 2	2	71	0.35	0.048	17	26	0.5	263	0.03	< 3	2.12	0.01	0.05	1
97D-30	-10500	-9150	44	93	8	86	< .3	27	12	621	3.43	18	< 5	< 2	30	< .2	< 2	7	68	0.45	0.053	15	27	0.58	319	0.03	< 3	2.31	0.01	0.05	4
97D-31	-10500	-9225	35	117	14	77	< .3	28	12	638	3.21	23	< 5	< 2	35	0.3	< 2	5	62	0.36	0.05	11	25	0.45	200	0.02	< 3	1.89	0.01	0.06	1

Field Observations for Property Scale Geochemical Samples

SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97R-1	-11100	-10000		Mb	csz	70	pit	flat		well	weak	high	none	weakly	70	light-grey	M	SA-SR	f.g. andesite with no mineralization		
97R-2	-11100	-10100		Mb	cz Dm	90	pit	slope	5	mod	weak	mod	none	none	70	light-grey	M	SA-SR-R	f.g. mafic andesite		
97R-3	-11100	-10200		Lg	z	100	pit	flat	0	well	none	low	none	none	90	light-grey	S-M	R			Lake seds
97R-4	-11100	-10300	Mvr	Lg	sz Dm	100	pit	slight slope	4	well	none	low	none	none	80	light-grey	S	SR-R			
97R-5	-11100	-10400		Lg	z	100	pit	slope	5	well	none	;ow	none	none	90	light-grey	S-M	SR-R	f-spar porph		
97R-6	-11100	-10500		Mbr//Lg	sz Dm	90	pit	slight slope	8	well	none	low	mild	none	80	brown-orange	M	SR	igneous f.g. trace of Py and hem		
97R-7	-11100	-10600		Mbr	sz Dm	88	pit	slope	5	well	none	low	mod	none	70	brown-orange	M	A-SA-SR	f.g. andesite		
97R-8	-11100	-10700		Mb	zc Dm	70	pit	slight slope	4	well	weak	high	none	weakly	80	light-grey	S-M	SA-SR			clay rich--> very compact few M-SR clasts
97R-9	-11100	-10800		Mb	sz Dm		pit	slight slope	5	well	weak	high	none	weakly	75	light-grey	M	SA-SR	grey andesite with finely disseminated Py		
97R-10	-11100	-10900		Fg//Lg	sg Dm	30	pit	flat		well	none	low	none	none	50	dark-grey	S	SR			
97R-11	-11100	-11000	Ob	O/Lg	cz	120	pit	flat		poor	none	low	none	none	100	blue-grey					swamp area flat lake seds
97-R-12	-11200	-10000		Fg//Mbr	cs Dm	90	pit	flat		well	none	low	none	none	60	light-grey	S-M	SR-R	andesite		
97-R-13	-11200	-9900		Mb	zc Dm	80	pit	slight slope	5	well	weak	mod	none	weakly	80	light-grey	S-M	SR			
97-R-14	-11200	-9800		Mbr	z Dm	75	pit	flat		well	none	low	mod	none	70	brown-orange	M	SA-SR	f.g. mafic		
97-R-15	-11200	-9700		Mbr	sz Dm	80	pit	slope	15	well	none	low	mild	none	70	light-brown	M	SA-SR	grey andesite		
97-R-16	-11200	-9600		Lb			pit	slope	25	well	none	low	mild	none	50	brown	M-L	A-SA			
97-R-17	-11200	-9500	Cv	R	z	60	pit	slope	25	well	none	low	mild	none	65	brown	M	A			
97-R-18	-11200	-9400		Cb	zs	50	pit	slope			none	low	mild	none	50	brown	M	A-AS	f.g. dark mafic		
97-R-19	-11200	-9300	Cv	R	z	45	pit	steep slope	40	well	none	low	mild	none	60	brown	M-L	A	qtz rich diorite		
97-R-20	-11200	-9200		Mb	cz Dm	75	pit	steep slope	40	well	weak	mod	none	weakly	70	light-grey	M	SA-SR	SA clasts f.g. mafic		
97-R-21	-11200	-9100		Fg//Mbr	cs Dm	100	pit	slope	25	well	none	low	none	none	65	light-grey	M	SA-SR			
97-R-22	-11200	-9000		Mb	c Dm	140	roadcut	slope	20	well	mod	high	none	mod	80	light-grey	S-L	SR-R			good till
97-R-23	-11200	-8900	Cv	R		20	pit	steep slope	45												just a soil sample
97-R-24	-11200	-8800	Cv	R	z Dm	20	pit	steep slope	40									A			just a soil sample
97-R-25	-11200	-8700		Mbr	z Dm	75		slope	7	well	none	low	mild	none	70	brown-orange	M	SR			
97-R-26	-11200	-8600	Mv	R	z Dm	60	pit	slope	25	well	none	low	mod	none	70	light-brown	M	SR			
97-R-27	-11200	-8500		Mbr	cz Dm	80	pit	slight slope	6	well	none	low	mod	none	70	brown-orange	M-L	A-SA-AR			gr-blue andesite
97-R-28	-11400	-9400		Mb	cz Dm	75	pit	flat		well	weak	mod	none	weakly	70	light-grey	M	SR	grey-green andesite		
97-R-29	-11400	-9300		Ff/Mbr//cb	gs Dm	75	pit	flat		well	none	low	mild	none	60	brown	M	A-SA-SR			
97-R-30	-11400	-9200		Mb	scz Dm	70	pit	gentel slope	3	well	weak	mod	none	weakly	70	light-grey	M	SR			

Field Observations for Property Scale Geochemical Samples

SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97R-1	-11100	-10000		Mb	csz	70	pit	flat		well	weak	high	none	weakly	70	light-grey	M	SA-SR	f.g. andesite with no mineralization		
97R-2	-11100	-10100		Mb	cz Dm	90	pit	slope	5	mod	weak	mod	none	none	70	light-grey	M	SA-SR-R	f.g. mafic andesite		
97R-3	-11100	-10200		Lg	z	100	pit	flat	0	well	none	low	none	none	90	light-grey	S-M	R			Lake seds
97R-4	-11100	-10300	Mvr	Lg	sz Dm	100	pit	slight slope	4	well	none	low	none	none	80	light-grey	S	SR-R			
97R-5	-11100	-10400		Lg	z	100	pit	slope	5	well	none	;ow	none	none	90	light-grey	S-M	SR-R	f-spar porph		
97R-6	-11100	-10500		Mbr//Lg	sz Dm	90	pit	slight slope	8	well	none	low	mild	none	80	brown-orange	M	SR	igneous f.g. trace of Py and hem		
97R-7	-11100	-10600		Mbr	sz Dm	88	pit	slope	5	well	none	low	mod	none	70	brown-orange	M	A-SA-SR	f.g. andesite		
97R-8	-11100	-10700		Mb	zc Dm	70	pit	slight slope	4	well	weak	high	none	weakly	80	light-grey	S-M	SA-SR			clay rich--> very compact few M-SR clasts
97R-9	-11100	-10800		Mb	sz Dm		pit	slight slope	5	well	weak	high	none	weakly	75	light-grey	M	SA-SR	grey andesite with finely disseminated Py		
97R-10	-11100	-10900		Fg//Lg	sg Dm	30	pit	flat		well	none	low	none	none	50	dark-grey	S	SR			
97R-11	-11100	-11000	Ob	O/Lg	cz	120	pit	flat		poor	none	low	none	none	100	blue-grey					swamp area flat lake seds
97-R-12	-11200	-10000		Fg//Mbr	cs Dm	90	pit	flat		well	none	low	none	none	60	light-grey	S-M	SR-R	andesite		
97-R-13	-11200	-9900		Mb	zc Dm	80	pit	slight slope	5	well	weak	mod	none	weakly	80	light-grey	S-M	SR			
97-R-14	-11200	-9800		Mbr	z Dm	75	pit	flat		well	none	low	mod	none	70	brown-orange	M	SA-SR	f.g. mafic		
97-R-15	-11200	-9700		Mbr	sz Dm	80	pit	slope	15	well	none	low	mild	none	70	light-brown	M	SA-SR	grey andesite		
97-R-16	-11200	-9600		Lb			pit	slope	25	well	none	low	mild	none	50	brown	M-L	A-SA			
97-R-17	-11200	-9500	Cv	R	z	60	pit	slope	25	well	none	low	mild	none	65	brown	M	A			
97-R-18	-11200	-9400		Cb	zs	50	pit	slope			none	low	mild	none	50	brown	M	A-AS	f.g. dark mafic		
97-R-19	-11200	-9300	Cv	R	z	45	pit	steep slope	40	well	none	low	mild	none	60	brown	M-L	A	qtz rich diorite		
97-R-20	-11200	-9200		Mb	cz Dm	75	pit	steep slope	40	well	weak	mod	none	weakly	70	light-grey	M	SA-SR	SA clasts f.g. mafic		
97-R-21	-11200	-9100		Fg//Mbr	cs Dm	100	pit	slope	25	well	none	low	none	none	65	light-grey	M	SA-SR			
97-R-22	-11200	-9000		Mb	c Dm	140	roadcut	slope	20	well	mod	high	none	mod	80	light-grey	S-L	SR-R			good till
97-R-23	-11200	-8900	Cv	R		20	pit	steep slope	45												just a soil sample
97-R-24	-11200	-8800	Cv	R	z Dm	20	pit	steep slope	40									A			just a soil sample
97-R-25	-11200	-8700		Mbr	z Dm	75		slope	7	well	none	low	mild	none	70	brown-orange	M	SR			
97-R-26	-11200	-8600	Mv	R	z Dm	60	pit	slope	25	well	none	low	mod	none	70	light-brown	M	SR			
97-R-27	-11200	-8500		Mbr	cz Dm	80	pit	slight slope	6	well	none	low	mod	none	70	brown-orange	M-L	A-SA-AR			gr-blue andesite
97-R-28	-11400	-9400		Mb	cz Dm	75	pit	flat		well	weak	mod	none	weakly	70	light-grey	M	SR	grey-green andesite		
97-R-29	-11400	-9300		Ff/Mbr//cb	gs Dm	75	pit	flat		well	none	low	mild	none	60	brown	M	A-SA-SR			
97-R-30	-11400	-9200		Mb	scz Dm	70	pit	gentel slope	3	well	weak	mod	none	weakly	70	light-grey	M	SR			

Field Observations for Property Scale Geochemical Samples

SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97-R-31	-11400	-9100		Mb	cz Dm	80	pit	slope	15	well	weak	mod	none	weakly	70	light-grey	M	SA-SR	f.g. mafic		
97-R-32	-11400	-9000		Cb	z	45	pit	slope	25	well	none	low	mild	none	50	brown-orange	M	A	med. grain chlorite altered andesite		
97-R-33	-11400	-8900		Cb	z	40	pit	steep slope	35	well	none	low	mod	none	50	brown	M	A-SA	A clasts --> andesite SA--> qtz rich diorite		
97-R-34	-11400	-8800		Cb	z	80	pit	slope	25								M	A	diorite		
97-R-35	-11400	-8700	Ov	Mbr	cs Dm	75	pit	slope	25	mod	none	mod	mod	none	70	brown-orange	S-M	SR			
97-R-36	-11400	-8600		Cb	z	65	pit	steep slope	35	well					50	brown	M-L	A			
97-R-37	-11400	-8500		Mb	Cz Dm	70	pit	slope	25	well	none	mod	none	none	70	light-grey	S-M	SR			
97-R-38	-11100	-8400		Mbr	sc Dm	60	pit	slope	16	well	none	low	mild	none	60	brown-orange	M	SA-SR	f.g. mafic		
97-R-39	-11100	-8500		Mb	sc Dm	70	pit	flat		mod	none	mod	none	none	70	light-grey	M	SR	SR f.g. mafic		
97-R-40	-11100	-8600		Cb	cs Dm	60	pit	gulch		mod	none	low-mod	mild	none	45	brown-orange	M	A-SA	volcanic f.g. mafic		
97-R-41	-11100	-8700		Mbr	sz Dm	60	pit	steep slope	35	well	none	low	mild	none	70	orange	M	SA-SR			
97-R-42	-11100	-8800		Cb	s	40	pit											A	grey f.g. andesite oxd. on fractures		
97-R-43	-11100	-8900		Mbr	z Dm	60	streamcut	steep slope	40	well	none	low	none	none	70	dark-grey	M	A-SA-SR-R			
97-R-44	-11100	-9000	Cv	R	s	40	pit	steep slope	42									A	andesite		
97-R-45	-11100	-9100		Cb	s	45	pit	steep slope	45	well								A	andesite (chloritized) 1 clasts --> BFP		
97-R-46	-11100	-9200	Mvr	R	cz Dm	40	pit	slope	20	well	none	low	mild	none	70	brown-orange	M	SA-SR	SA--> andesite (chloritized)		
97-R-47	-11100	-9300		Cv	z	40	pit	steep slope	45									A	andesite (chloritized) with trace of Py		
97-R-48	-11100	-9400		Cb	z	45	pit	steep slope	40	well								A	f.g. mafic		
97-R-49	-11100	-9500		Cb	z	50	pit	Steep slope	40									A	andesite wea		
97-R-50	-11100	-9600		Cb	z	40	pit	slope									M	A	oxd f.g. mafic		
97-R-51	-11100	-9700		Mb	sc Dm	70	pit	flat		well	none	mod	mild	none	70	light-grey	M	SA-SR			
97-R-52	-11100	-9800		Fg	gs	90	roadcut	slope	20	well	none	low	none	none	50	brown	S	SA-SR-R			on the road
97-R-53	-11100	-9900		Mb	czs Dm	70	pit	gentle slope	6	well	none	mod	none	none	70	light-grey	S	SR			
97-R-54	-11300	-10800		Lg	zc	30	pit	flat		well	strong		none	mod	90	light-brown	S	SA-R	alt-->clay andesite		
97-R-55	-11300	-10700	Lgv	Mb	csz Dm	70	pit	flat		well	weak	mod	none	weakly	70	light-brown	S	SA-SR			
97-R-56	-11300	-10600		Mb	zc	60	pit	flat		mod	mod	high	mild	well	80	light-grey-brown	M	A-SA-SR	andesite		
97-R-57	-11300	-10500	Ov	Mb	sc Dm	80	pit	flat			weak	mod	mild	weakly	70	brown	S-M	SR			
97-R-58	-11300	-10400		Mbr	zs Dm	75	pit	flat		well	none		high	none	80	brown-orange	S-M	SR-R	var. lith f.g. voc		

Field Observations for Property Scale Geochemical Samples

SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97-R-59	-11300	-10300		Mbr	zs Dm		pit	flat		well	none	low	mod	none	70	brown-orange	M	A-SR	A BFP with Mn-staining SR f.g. mafic		
97-R-60	-11300	-10200		Fg	sg Dm	50	streamcut	gulch		well	none	low	mild	none	60	brown	M	SA	qtz diorite f.g. volcanic		
97-R-61	-11300	-10100		Mbr	sc Dm	60	streamcut	gulch	30	well	none	mod	none	weakly	70	brown-orange	M	SR			
97-R-62	-11300	-10000		Mb	sc Dm	60	pit	falt		well	mod	mod	none	weakly	80	dark-grey-brown	S	SR	green andesite		
97-R-63	-11300	-10900		Lg	zc	70	pit	flat		well	mod	high	none	weakly	90	light-grey	S	R			
96-R-64	-11400	-10000	Ov	Lg	zc	90	pit	flat		poor	mod	mod-high	none	mod	90	light-grey-brown					no clasts
96-R-65	-11400	-9900		Lg	zc Dm	100	pit	flat		well	none	low	mild	none	90	light-grey-brown	S				no clasts
96-R-66	-11400	-9800		Lg	sz	73	pit	flat		well	none	low	none	none	90	brown					
96-R-67	-11400	-9700		Fg	gs	Dm	pit	flat		mod	none	low	none	none	50	dark-grey	S	SR-R			
96-R-68	-11400	-9600		Mbr	sc Dm	70	pit	gentle slope	9	well	none	low	none	none	70	light-grey-brown	S		f.g. mafic		
96-R-69	-11400	-9500		Mb	sc Dm	100	pit	gentle slope	9	mod-well	weak	mod	none	weakly	70	light-grey	M	SR	SR andesite		
96-R-70	-11600	-10000		Cb/Mbr	25	50	pit	gentle slope	9	well	none	low	high	none	60	orange	M	A-SA-SR-R			new BL south crosses ~35m
96-R-71	-11600	-10100	Mbr	Cb	sz	65	pit	gentle slope	6	well	none	low	mod	none	60	brown-orange	M	A-SA-SR	f.g. volcanic		
96-R-72	-11600	-10200		Mbr	sz	65	pit	slope	10		none	low	mod	none	70	brown-orange	M	SR			
96-R-73	-11600	-10300		Mbr	zs Dm	60	pit	gentle slope	3	well	none	low	mild	none	60	light-grey-brown	M	SR			
96-R-74	-11600	-10400		Fg	sg	50	pit	flat		well	none	low	none	none	40	dark-grey	S	R			
96-R-75	-11600	-10500		Fg	zs	60	pit	flat		well	none	low	none	none	50	light-grey-brown	S	R			
96-R-76	-11600	-10600		Mb	sc Dm	65	pit	flat		well	weak	mod	none	weakly	70	light-grey	S-M	SR			
96-R-77	-11600	-10700		Lg	zc Dm	80	pit	flat		well	mod	mod	none	mod	90	light-grey	M				
96-R-78	-11600	-10800		Mbr	csz Dm	80	pit	flat		well	none	low	mod	none	70	brown-light-grey	M	A-AS-SR	f.g. mafic		
96-R-79	-11600	-10900		Lg	c	9	pit	flat		mod	strong	high	none	well	98	light-grey					
96-R-80	-11600	-11000		Mbr	sz Dm	70	pit	flat		well	none	low	mild	none	75	light-grey-brown	S-M	SR			
96-R-81	-11500	-10000		Mbr	zs Dm	70	pit	flat		well	none	mod	high	none	80	brown-orange	S-M	A-SA-SR	f.g. mafic		
96-R-82	-11500	-10100		Mbr	sz Dm	60	pit	flat		well	none	low	none	none	70	light-grey	S-M	SR			

Field Observations for Property Scale Geochemical Samples

SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
96-R-83	-11500	-10200		Cb/Mbr	zs	40	pit	gentle slope	4	well	none	low	none	none	50	brown	M	A	altered andesite tr. Py. & white clasts with hem.		
96-R-84	-11500	-10300		Mbr	s Dm	60	pit	slope	25	we	none	low	none	none	60	brown	M	SA			
96-R-85	-11500	-10400		Lg/Mbr	zc Dm	85	pit	flat		mod	weak	low	none	weakly	90	light-grey	S	SR			
96-R-86	-11500	-10500		Mb	cs Dm	75	pit	flat		well	weak	mod	none	weakly	80	light-grey	M-L		large f.g. volcanic rocks throughout pit		
96-R-87	-11500	-10600	Ov	Lg	c Dm	90	pit	flat		poor	strong	high	none	well	90	light-grey					lg--> pure compact clay with little to no clasts
96-R-88	-11500	-10700		Mbr	cs Dm	70	pit	flat		poor	none	mod	none	none	70	light-grey	M	SA-SR			
96-R-89	-11500	-10800		Mbr	cs Dm	70	pit	flat		mod	weak		mild	weakly	70	brown-orange	M	SR			
96-R-90	-11500	-10900		Lg	zc	90	pit	flat		well	mod	mod	none	mod	90	light-grey					no clasts
96-R-91	-11500	-11000		Lg	cz Dm	80	pit	flat		mod	weak	mod	none	weakly	90	light-grey					
97-R-92	-11600	-9900		Mbr	zs Dm		pit	gentle slope	5	well	none	low	mild	none	80	brown	M	SA-SR	alt'd f.g. felsic, highly oxidized, weak, porph texture		angular rocks near suface
97-R-93	-11600	-9800		Mbr	zs Dm	90	pit	gentle slope	3	well	none		mod	none	70	brown-orange	M-L	SA-SR	felsic with qtz eyes & fspar		
97-R-94	-11600	-9700		Mbr	zs Dm	75	pit	slope	7	well	none	low	mod	none	70	brown-orange	M-L	SA-SR	f.g. mafic silt stone		hard to dig due to rock less mineralized Py than last pits more seds
97-R-95	-11600	-9600	Ov	R	sz	55	pit	slope	32	well	none	low	high	none	50	orange	M-L	A	weathered bedrock horizon basically a soil sample		all from local bedrock
97-R-96	-11600	-9500		Mb	scz Dm	110	pit	med slope	10	well	weak	low	none	weakly	70	light-grey	M	SR	f.g. mafic with weak fspar and chl		
97-R-97	-11600	-9400		Mb	sc Dm		pit	gentle slope	5	mod	mod	high	none	mod	70	light-grey	M	SR	mafic f.g.		compact at depth
97-R-98	-11600	-9300	Ov	Ov/Mbr		110	pit	flat		poor	none	low	none	none	90	dark-grey	S-M	SA-SR	no rocks to brake open		
97-R-99	-11600	-9200		Mb	sc Dm	110	pit	flat		poor	mod	mod	mild	mod	85	all	S	SA-SR	no really good clasts		swampy area
97-R-100	-11600	-8975	Ov	Mb	sc Dm	115	pit	flat		poor	weak	mod	mild	none	80	light-grey-brown	S	SR	no really good clasts		couldn't take sample @ 9100 because of swamp
97-R-101	-11600	-8900	Mbr	Mb	sc Dm	100	pit	gentle slope	3	mod	weak	mod	none	weakly	60	light-grey-brown	S	SR	boulders SR andesite		
97-R-102	-11600	-8800		Mbr	sz Dm	70	pit	slope	10	well	none	low	none	none	60	light-grey-brown	M	SR			rocky!
97-R-103	-11600	-8700		Mbr	sz Dm	80	pit	slope	50	well	weak	mod	mild	weakly	70	light-grey-brown	M	SR	1 SA clast f.g. mafic		

Field Observations for Property Scale Geochemical Samples

SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97-R-104	-11600	-8600		Mbr	zs Dm	65	roadcut	slight slope	4	well	weak	high	mild	weakly	65	light-grey	M	A-SA-SR	f.g. mafic maybe siltstone		
97-R-105	-11600	-8500		Mb	scz Dm	70	pit	steep slope	40	well	weak	mod	none	weakly	70	light-grey	M	SR	f.g. mafic		
97-R-106	-11500	-9400		Fg	gs	70	pit	flat		well	none	low	none	none	40	light-dark-grey	S-M-Pbl	SA-SR	f.g. mafic c.g. grey. with qtz		vary rocky with SA clasts
97-R-107	-11500	-9300		Fg//Mbs	cs DM	40	pit	flat		well	none	low	none	none	50	dark-grey	S-M	SR			
97-R-108	-11500	-9200		Mb	sc Dm	80	pit	slope	5	mod	weak	mod	none	weakly	70	dark-grey	M	A-SA-SR	f.g. mafic		
97-R-109	-11500	-9100		Mb	cs Dm	70	pit	slope	7	well	weak	mod	mild	weakly	80	light-grey-brown	M	SA-SR			
97-R-110	-11500	-9000		Cb//Mbr	sz Dm	65	pit	slope	15	well	none	low	mild	none	50	brown	M	A-SA-SR			lots of A clasts
97-R-111	-11500	-8900		Cb	z	55	pit	slope	30	well						brown-orange		A	pretty much the same as outcrop @ 8925		
97-R-112	-11500	-8800		Mb	cz Dm	66	pit	flat of slope	25	well	mod	high	none	mod	80	light-grey	M-L	SR			
97-R-113	-11600	-8700		Mbr	zs Dm	60	pit	slope	20	well	none	low	none	none	60	light-grey-brown	M	SA-SR			very rocky!
97-R-114	-11500	-8600		Mb	z Dm	25	pit	slope	10	well	weak	mod	none	weakly	80	light-grey	M	SR			
97-R-115	-11500	-8500		Mb	cz Dm	75	roadcut	slope	6	mod	weak	mod	none	weakly	80	light-grey	S-M	SA			
97-R-116	-11400	-10100		Mb	sc Dm	90	pit	gentle slope	2	well	weak	mod	none	weakly	70	light-grey	M	SA-SR	bl-grey c.g. with euhedral feldspars		
97-R-117	-11400	-10200		Mbr	zs Dm	85	pit	flat		well	none	low	none	none	80	light-grey-brown	M	SA-SR	f/spar porph alt BFP		
97-R-118	-11400	-10300		Mbr//Fg	sz Dm	85	pit	falt		well	none	low	mild	none	65	brown	M	SA-SR	many small Sr clasts just past outcrop		
97-R-119	-11400	-10400	Ov	Mbr//Lg	sz Dm	85	pit	flat		poor	none	low	mild	none	80	light-grey	M	SA-SR			
97-R-120	-11400	-10500	Ob	Lg	c	120	pit	flat		poor	strong	high	none	well	100	light-grey					Poorly drained, clay-rich
97-R-121	-11400	-10600	Ov	Mb	sc Dm	90	pit	flat		poor	mod		none	weakly	75	light-grey-brown	S	SR			
97-R-122	-11400	-10700	Ov	Lg	c	90	pit	flat		poor	strong	high	none	mod	90	light-grey					
97-R-123	-11400	-10800		Lg	zc	70	pit	flat		well	strong	high	none	well	90	light-grey					
97-R-124	-11400	-10900		Lg	cz	70	pit	flat		well	strong	high	none	mod	90	light-grey					
97-R-125	-11400	-11000		Lg	cz	70	pit	flat		well	strong	high	none	mod	90	light-grey					
97-R-126	-11500	-9900		Mbr	sz Dm	85	pit	slope		well	none	low	none	none	85	light-grey-brown	M	SR			
97-R-127	-11500	-9800		Mbr	sz Dm	85	pit	slope		well	none	low	none	none	80	light-grey-brown	M	SR			
97-R-128	-11500	-9700		Mb	sc Dm	75	roadcut	slope		well	weak	mod	none	weakly	70	dark-grey	M	SA-SR			

Field Observations for Property Scale Geochemical Samples

SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97-R-129	-11500	-9600		Fg	cs	90	streamcut	slope		well	none	low	none	none	40	dark-grey	S	SR			
97-R-130	-11500	-9500		Lgr	cz Dm	95	pit	flat		well	weak	mod	none	weakly	90	dark-grey-brown					felt like till but no clasts
97-R-131	-11300	-9900		Mb	cs Dm	80	pit	slope	4	well	none	mod	mild	none	65	light-grey-orange	M	SA-SR	mg-grey with rusting & black andesite		
97-R-132	-11300	-9800		Mbr	sz Dm	65	pit	slope	5	well	none	low	mild	none	80	light-grey-brown	M	SA-SR	alt'n BFP		
97-R-133	-11300	-9700		Mb	sz Dm	80	pit	flat		well	none	mod	none	none	70	light-grey	S-M-L	SA-SR	weak f.g. mafic		
97-R-134	-11300	-9600		Mb	sc Dm	85	pit	flat		well	weak	low	none	weakly	80	light-grey	S-M-L	SR	andesite		
97-R-135	-11300	-9500		Mbr	zs Dm	70	pit	flat		well	none	low	none	none	60	light-grey-brown			f.g. mafic prob. a sed. clast		
97-R-136	-11300	-9400		Mb	sc Dm	100	streamcut	slope	7	well	mod	high	none	mod	80	dark-grey	M	SA-SR			
97-R-137	-11300	-9300	Cv	R	zc	35	pit	steep slope	45	well	none	low	none	none	50	dark-grey-brown	S-M	A-SA	f.g. mafic		
97-R-138	-11300	-9200	Cv	Mbr	sz Dm	65	pit	slope	25	well	none	low	mild	none	75	light-grey-orange	M	A-SA-SR			
97-R-139	-11300	-9100		Mbr	sz Dm	75	pit	slope	28	well	none	mod	none	none	80	light-grey	M	SR			
97-R-140	-11300	-9000	Cv	R	z	20	pit	slope	25												just a soil sample
97-R-141	-11300	-8900	Cv	R	z	30	pit	slope	20												
97-R-142	-11300	-8800		Mbr	sz Dm	65	pit	slope	25	well	none	low	none	none	60	light-grey	M	SA-SR	f.g. mafic with chlorite staining		
97-R-143	-11300	-8700		Cb//Mbr	sz Dm	70	pit	slope	30	well	none	low	none	none	55	brown	M	A-SA-SR			
97-R-144	-11300	-8600		Ob//Mbr	zsc Dm	65	pit	steep slope	33	well	none	low	mild	none	40	brown	S-M	A-SA-SR			many R clasts found within sample
97-R-145	-11300	-8500		Cb		60	pit	slope	15	well									diorite		
97-R-146	-11100	-9400		Cv/R	B-C horizon	40	pit	slope	29	well	none	low	mod	none	70	brown-orange	A-SA		diorite		taken from old pit R-48
97-R-147	-11100	-9401		Cv/R	B-C	40	pit	slope	29	well	none	mod	mod	none	50	brown-orange	M	A			take from new pit 1m away
97-R-148	-11100	-9450		Cb	B-C	30	pit	slope	26	well	weak	mod	mild	none	50	brown-orange	L	A	andesite		
97-R-149	-11100	-9550		Cb	B-C	30	pit	slope	21		none	low	mild	none	60	brown	M	A	dorite f.g., chloitzed few large xtals green color		
97-R-150	-11150	-9600		Cf/A	Cb/B-C	35	pit		19	well	none	low	mod	none	60	brown-orange	S	SA			fairly open area with large hardwood
97-R-151	-11150	-9550		Cb/R	Cb-B-C	40	pit		18	well	none		mod	none	60	brown-orange		SA-SR	andesite f.g. chl not silicious Mn stain		
97-R-152	-11150	-9500	Cb	R	zs	35	pit	slope	32	well	none	low	mild	none	40	brown-orange	M	A-SA	weak andesite		samples Cb in BC horizon
97-R-153	-11150	-9450		Cb//Mbr	z		pit	slope	26	well					60	brown-orange	S-M		andesite		
97-R-154	-11150	-9400		Cb/Mb	sz		pit	slope	23						50	brown-orange	M	A-SA	diorite to andesite.		

Field Observations for Property Scale Geochemical Samples

SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97-R-155	-11150	-9350	Cv	R	zs		pit	slope	38	well	none	low	none	none	50	brown	M	A-SA	diorite		
97-R-156	-11150	-9300	Cv	R		30	pit	slope	33	well	none	low	mod	none	55				diorite; heavily FeOx unmineralized		
97-R-157	-11200	-10100		Lg//Mbr	z Dm	90	pit	slope	5	well	none	low	none	none	85	light-grey-brown	S-M	SR			
97-R-158	-11200	-10200		Fg/Mbr	zc Dm	75	pit	slope	7	well	none	low	none	none	60	dark-grey-brown	S-M	SA-SR-R			
97-R-159	-11200	-10300		Mbr	sz Dm	70	pit	slope	5	well	none	low	none	none	80	light-grey-brown	S-M	SA-SR	Diorite; weathered with FeOx		
97-R-160	-11200	-10400		Mb	sc Dm	80	pit	flat		poor	weak	mod	none	none	70	light-grey	M	SR			
97-R-161	-11200	-10500	Cv	Lgr	z Dm	100	pit	flat		well	none	low	none	none	90	light-grey					very wet large O horizon, few clasts
97-R-162	-11200	-10600		Mbr	zs	120	roadcut	flat		poor	none	low	none	none	70	light-grey	S	SR			
97-R-163	-11200	-10700		Mb	sc Dm	60	pit	flat		well	none	low	none	none	75	light-grey	S-M	SR			
97-R-164	-11200	-10800		Lg	c	70	pit	flat		well	weak	high	none	weakly	90	light-grey					
97-R-165	-11200	-10900		Lg	z	75	pit	flat		well	none	mod	none	none	90	light-grey					
97-R-166	-11050	-9300	Cv//Mvr	R	z Dm	20	pit	mod slope	32	well	none	low	none	none	65	brown	M	A-SA-SR	qtz diorite		
97-R-167	-11050	-9350	Cv//Mvr	R	z Dm	25	pit	slope	34	well	none	low	none	none	60	brown	M	A-SA-SR	diorite f.g. andesite. BFP		
97-R-168	-11050	-9400	Cv	Mb	sz Dmm	90	pit	steep slope	37	well	none	low	mild	none	75	light-grey-orange	M-L	A-SR	BFP alt'd diorite with Py		
97-R-169	-11050	-9450		Cb	z	60	pit	slope	30	well	none	low	mod	none	60	brown-orange	M	A	f.g. volcanic a little proph		
97-R-170	-11050	-9500		Cb	z	60	pit	slope	25	well					50	brown	M	A-SA	f.g. volcanic		
97-R-171	-11050	-9550		Cb	z	60	pit	slope	25	well					50	brown-rd	M	A	f.g. green andesite. poss. Amygdules		
97-R-172	-11050	-9600		Cb	z	60	pit	steep slopee	35	well						brown-orange	M	A-SA	andesite		
97-R-173	-9600	-9600		Mb	sc Dm	80	pit	slope	8	well	weak	mod	mile	weakly	75	light-grey-brown	M	SR	andesite		
97-R-174	-9600	-9700		Mb	sz Dm	60	pit	slope	8	well	weak	mod	none	weakly	75	light-grey-brown	M	SR			
97-R-175	-9600	-9800		Mb	sc Dm	65	pit	slope	10	well	weak	mod	mile	weakly	70	light-grey-brown	M	SA-SR	andesite		
97-R-176	-9600	-9900		Mbr	sz Dm	75	pit	slight slope	2	well	none	low	mild	none	70	light-r-orange	M	A-SA-SR	andesite, with trace of Py		
97-R-177	-9600	-10000	Mbr	R	sz Dm	90	pit	slope	25	well	none	low	mild	none	75	light-grey	M	SR	andesite		
97-R-178	-9600	-10100		Mbr	sz Dm	70	pit	slope	5	well	none	low	mild	none	80	light-grey-brown	M	SR			
97-R-179	-9600	-10200		Mbr	sz Dm	80	pit	slope	10	well	none	low	mild	none	80	light-grey-brown	M	SR	andesite		

Field Observations for Property Scale Geochemical Samples

SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97-R-180	-9600	-10300		Mbr	sz Dm	70	pit	slope	30	well	none	low	mild	none	80	light-grey	M	SA-SR			
97-R-181	-9600	-10400	Cv/Mvr	R	z Dm	60	pit	steep slope	33	well	none	low	mod	none	75	brown-orange	M-L	A-SA-SR	andesite. with Py on fract surfaces		
97-R-182	-9600	-10500	Cv/Mvr	R	sz Dm	80	pit	slope	15	mod	none	low	mild	none	80	light-grey-orange	M	A-SA-SR	andesite		end of line
97-R-183	-9500	-9600		Mbr	sc Dm	70	pit	slope	10	well	none	low	mod	none	70	light-grey-orange	M	SA-SR	andesite		
97-R-184	-9500	-9800		Mbr	sc Dm	80	pit	flat		well	none	low	mod	none	75	light-grey-orange	M	SR	andesite		already done but not on map so did again
97-R-185	-9500	-10000	Mvr	R	sz Dm	20	pit	slope	25	well	none	low	high	none	80	brown-orange	M	SA-SR	andesite		
97-R-186	-9500	-10200	Cv/Mvr	R	sz Dm	60	pit	slope	10	well	none	low	mod	none	70	light-grey-orange	M	A-SA-SR	andesite		
97-R-187	-9500	-10400		Mb	sz Dm	100	pit	slope	15	well	none	mod	mld	none	70	light-grey-orange	M	SA-SR	andesite		same pit sit as 95-6111
97-R-188	-9300	-9700		Mb	sz Dm	75	pit	slope	15	well	weak	mod	none-mild	weakly	70	grey	M	SA-SR	andesite		
97-R-189	-9300	-9800		Mb	cs Dm	70	pit	slight slope	4	well	weak	mod	none	weakly	70	grey	M	SA-SR	andesite with qtz py vein	andesite	
97-R-190	-9300	-9900		Mb	sc Dm	70	pit	slope	7	well	weak	mod	none	weakly	70	dark-grey	M	A-SA-SR	andesite		few A rock on top > andesite
97-R-191	-9300	-10000		Mb	sc Dm	70	pit	slope		well	weak	lo-mod	none	weakly	70	light-grey	M	SA-SR	andesite		
97-R-192	-9300	-10100		Mb	sc Dm	70	pit	slope	5	mod	none	lo-mod	none	none	70	light-grey	M	SA-SR			
97-R-193	-9300	-10200		Mb	sc Dm	75	pit	flat		well	weak	high	mild	weakly	65	light-grey	M	SA-SR	andesite	micro porph andesite	
97-R-194	-9300	-10300		Mb	sc Dm	80	pit	slight slope	4	well	weak	mod	none	weakly	70	light-grey	M	SA-SR	andesite		
97-R-195	-9300	-10400	Mv/Cv	R	sc Dm	60	pit	slope	25	well	weak	mod	mild	weakly	70	brown	M	A-SA-SR	diorite	diorite	
97-R-196	-9300	-10500		Mb	cs Dm	80	pit	slope	6	well	weak	lo-mod	none	weakly	70	light-grey	M	SA-SR	diorite		
97-R-197	-9400	-9500		Mb	sz Dm	65	pit	flat		well		lo-mod	none	none	70	light-grey-brown	M	SA-SR	andesite-Mg/diorite-C6		
97-R-198	-9400	-9600	Cv	Mb	sz Dm	90	roadcut	slope	15	poor	weak	mod	none	weakly	60	light-grey		A-SA-SR	andesite/with pyrite		angular rock layer
97-R-199	-9400	-9700	Mv	R	scz Dm	80	pit	slope	20	mod-well	weak	mod	none	weakly	60	dark-grey	M-L	A-SA-SR	andesite some chlorite	andesite	
97-R-200	-9400	-9800		Mbr	sz Dm	75	pit	slope-steep. to N.	10	well	none	low	none	none	80	light grey-brown	M	SA-SR	andesite		really close to marsh area
97-R-201	-9400	-9900		Mb	sz Dm	70	pit	slope	30	well	none	mod	none	non-weak	70	dark grey-brown	S-M		andesite; sm>mg; bluish tinge		
97-R-202	-9400	-10000	Mv	R	scz Dm	55	pit	slope	30	well	none	mod	none	non-weak	80	brown	S	SA-SR	mafic andesite with pyrite & f/spar & quartz crystals	intermediate andesite - blue tinge	very close to bedrock outcrop
97-R-203	-9400	-10100	Cv/Mv	R	zs	20	pit	slope	25	well	none	low	mild	none	60	brown-or	S	A-SA	mafic andesite; mg		very close to bedrock;no outcrop,shallow hole

Field Observations for Property Scale Geochemical Samples

SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97-R-204	-9400	-10200		Mbr	zs Dm	65	pit	flat		well	none	low	none	weakly	70	brown	S	SR-R	aphinitic andesite.;mafic andesite.;quartz crystals;bluish tinge		near marsh;lt gr clay layer,sticky;md rocks
97-R-205	-9400	-10300	Mv	R	zs Dm	45	pit	flat		mod-well	none	low-mod	none	weakly	60	dark grey-brown	S-M	SA-SR	int.andesite; blue tinge; quartz crystals	platy minerals; lots crystals	big outcrop; rock sample taken
97-R-206	-9400	-10400	Mv	R	sz Dmm	45	pit	rolling hill	14	well	weak	mod	none	weakly	70	dark grey-brown	S-M	SA-SR	mafic andesite; miniature diorite	could not find	
97-R-207	-9400	-10500		Cb	gzs		pit	slope	17	well	none	low-mod	none	none	60	dark grey-brown	S-M	A-SA	diorite (pyrite or cpy); andesite/mafic		very gritty
97-R-208	-9000	-10500	Mvr	R	sz Dm	40	pit	slope	18		weak	low	none	weakly	75	light grey-brown	M	SA-SR	porph.	porph.	
97-R-209	-9400	-9400		Cb	s	85	pit	small slope	5	well	none	low	none	none	60	brown-or	S	A-SA	breccia; diorite; (mg andesite ?)		right beside large pond swamp
97-R-210	-9400	-9300	Mv	Mv	scz Dmm	25	pit	slight slope	10	mod-well	weak	mod	none	weak-mod	80	dark grey-brown	S	SA-SR	mafic andesite		other side of pond; 9-100 in middle of pond
97-R-211	-9400	-9200		Mb	scz Dm	75	pit	gentle slope-base		well	weak	mod		weakly	60	dark grey-brown	S-M	SA-SR	intermediate andesite - f.g.		near swamp area
97-R-212	-9400	-9000		Mv	sz Dm		pit	gentle slope	10	well	none	mod	none	weakly	60	brown	S-M	SA-SR-R	intermediate andesite		
97-R-213	-9200	-9000		Mb	sz	75	pit	flat		well	weak	mod	none	weakly	60	dark grey-brown	S-M	A-SA	ultra mafic andesite f.g.		clay-white layer-not sampled
97-R-214	-9200	-9100		Mb//Cb	zs Dmm	65	pit	flat		poor	none	mod	none	none	70	brown-orange	S	SA-SR	breccia - diorite (?) (sampled)		
97-R-215	-9200	-9200		Mvr	zs Dmm	30	pit	flat		poor	none	mod	none	none	70	brown-orange	S	SR-R	breccia - chlorite in a fine grain andesite		right beside swamp - very wet sample
97-R-216	-9200	-9300		Cb	s	1	pit	sm.rolling hills	5	well	none	low	non-mild	none	60	brown-orange	L	A-SA	chlorite - andesite; diorite		
97-R-217	-9200	-9400		Mb	zs	1	pit	slope	5	well	weak	mod	none	weak-mod	60	dark grey-brown	S-M	SA-SR-R	aphinitic andesite; green		missed 9400 - middle of swamp
97-R-218	-9200	-9500		Cb	s	90	pit	slope	20	well	none	low	none	none	70	light grey-brown	M-L	A-SA	chlorite; colored andesite;Mb mafic andesite		
97-R-219	-9000	-10300	Cv	Mbr	sz Dm	70	pit	slope	15	well	none	low	none	none	80	light grey	M	SA-SR	andesite		
97-R-220	-9000	-10200	Mv	R	sz Dm	30	pit	slope	10	mod-well	weak	low	none	weakly	70	light grey	M	A-SA-SR	andesite		
97-R-221	-9000	-10100	Mv	R	sz Dm	35-40	pit	slope	25	poor	weak	low	none	none	70	light grey-brown	M	SA-SR			
97-R-222	-9000	-10000	Mv	R	sz Dm	30	pit	slope		well	none	low	none	none	70	light grey-brown	M	SA			

Field Observations for Property Scale Geochemical Samples

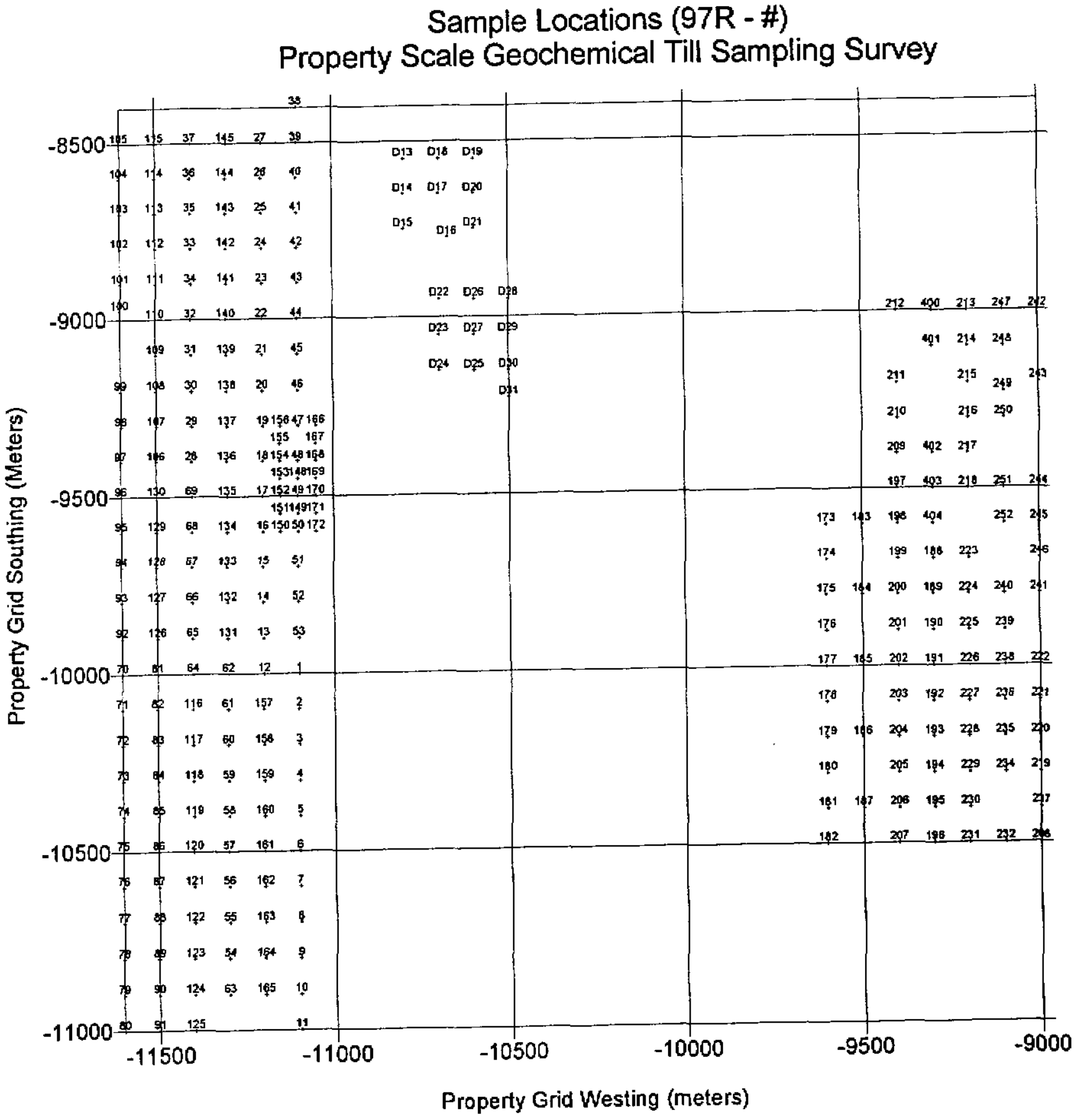
SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97-R-223	-9200	-9700		Mbr	zs	1	pit	slope	6	well	none	low	none	none	60	brown	S-M-L	SA - R	intermediate andesite;lge feldspar crystals;BFP-biotite crys		good till;good sm.rocks;round pebbles
97-R-224	-9200	-9800	Cv/Mv	R	zs	40	pit	gentle slope	11	mod-well		mod	none	weakly	70	brown	S-M	SA-SR	andesite-m.g.;chlorite coloring;diorite (mafic)	mafic fg andesite with quartz veins	
97-R-225	-9200	-9900		Mb	sz Dm	45	pit	gently rolling	6	mod-well	weak	mod	none	weakly	60	brown	S	SR	inter.andesite-fine grained with porph. within		
97-R-226	-9200	-10000		Mb	zs Dmm	60	pit	mod.steep slope	55	mod-well	weak	mod	none	weakly	70	brown-orange	M	SR	crys.dior.;f/spar qtz colored;chlor.with qtz crys.-m.g.		
97-R-227	-9200	-10100		Mv	sz Dmm		pit	gentle slope	45	mod	weak	mod	none	weakly	60	brown	S-M	SR-R	sandstone		
97-R-228	-9200	-10200	Mv	R	sz Dmm	30	pit	slope	15	well	weak	mod	none	weakly	70	dark grey-brown	S	SA-SR	mafic andesite m.g.	could not get	
97-R-229	-9200	-10300	Cv/Mv	R	zs Dmm	40	pit	gentle slope		very poor	none	low	none	none	80	dark grey-brown	M-L	A-SA	BFP; sandstone		flat swamp (lake) area
97-R-230	-9200	-10400	Mv	R	sz	60	pit	flat		well	weak	mod	none	weakly		dark grey-brown	S-M	SA-SR	breccia		outcrop of rock at top, near sample site
97-R-231	-9200	-10500	Cv	Mb	zs	75	pit	gentle slope	5 to 10	well	weak	low-mod		weakly	80	dark grey-brown	S-M	SA-SR	ultra mafic andesite f.g.		
97-R-232	-9100	-10500	Mv	R	sz Dm		pit	flat		well	weak	mod	none	weakly	70	light grey-brown	S-M	SA-SR	M.g. andesite intermediate		
	-9100	-10400		R																	rock outcrop top of small hill
97-R-234	-9100	-10300		Mb/Cb	zs	1	pit	flat		well	weak	mod	none	weakly	70	brown	M-L	A-SA	int. m.g. andesite; mafic f.g. andesite		clay layer (not in sample)
97-R-235	-9100	-10200		Cv		60	pit	flat		poor	weak	mod	none	weakly	70	dark grey-brown	L	A-SA	f.g. mafic andesite		very wet
97-R-236	-9100	-10100	Cv	R	s Dmm	35	pit	big slope	30	well	none	low	none	none	70	brown-orange	M-L	A-SA	mafic andesite f.g.	could not tell	slope lots of alder;awful site for sampling
97-R-237	-9000	-10400	Mvr	R	z Dm	50	pit	slight slope	3	well	weak	low	none	weakly	80	brown	M	SA-SR			
97-R-238	-9100	-10000	Mb	R	sz Dmm	100	pit	steep slope	40	well	weak	mod	none	weakly	60	dark grey-brown	S	SA-SR	diorite BFP?		lots of bush
97-R-239	-9100	-9900	Cv//Mv		sz Dmm	80	pit	mod. steep slope	35	mod	weak	low	none	wkly-mod	60	dark grey-brown	S-M	SA-SR	andesite f.g. hematite;diorite;andesit e m.g. ;qtz and f/spar crystals		sticky till
97-R-240	-9100	-9800	Mv//Cv		zs Dmm		pit	rolling hills	3	well	weak	low	none	weakly	70	dark grey-brown	S-M	SA-SR	sandstone		outcrop nearby
97-R-241	-9000	-9800	Mb		zs Dmm	60	pit	rolling	2	well	weak	low-mod	none	weakly	70	brown-orange	S-M	SA-SR	lge biotite crystals; mafic andesite		good till;above swamp;plateau off road
97-R-242	-9000	-9000	Cv///Mv		zs Dmm	26	pit	flat		well	none	low	mild	none	50	brown-red	S-M	A-SA	diorite		

Field Observations for Property Scale Geochemical Samples

SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97-R-243	-9000	-9200	Mb		zs Dmm	90	pit	flat		poor	weak	low	none	weakly	75	light grey-brown	S-M	SA-SR	mafic andesite		beside swamp
97-R-244	-9000	-9500	Mb		zs Dmm	75	pit	slight slope	7	well	weak	mod	none	weakly	60	brown	S-M	SA-SR	mafic andesite; hematite; diorite		9300 & 9400 were swamp
97-R-245	-9000	-9600	Mbr		sz Dmm	60	pit	slight slope	3	well	none	low	none	none	45	brown-orange	S-M-L	SA-SR	mafic andesite with hem. & some chl. coloring		
97-R-246	-9000	-9700	Mb/Cv	R	zs Dmm	85	pit	slight slope	3	well	mod	mod	none	mod	80	brown-orange	S-M-L	SA-SR	mafic andesite	unknown	
97-R-247	-9100	-9000	Cv	Mb	zs	60	drill	flat		well	none	low-mod	mild	none	70-80	dark grey-brown	S-M	SA-SR	QBFP;sli.felsic porph.andesite		cv layer very oxidized
97-R-248	-9100	-9100	Mb		sz Dmm	70	pit	flat		well	none	lomod	none	none	70	dark grey-brown	S-M	SA-SR	m.g.mafic andesite		hand sample taken
97-R-249	-9100	-9225	Mb		sz Dmm	75	pit	gentle slope	5	well	weak	mod	non-mild	non-weakly	80	dark grey	S-M	SA-SR	Andesite; felsic andesite		beside swamp on slope; 9200 in swamp
97-R-250	-9100	-9300	Mb wash		sz	60	pit	slight slope		mod	none	low-mod	none	none	60	dark grey-brown	S	SA-SR-R	f.g. andesite (mafic)		between two swampy areas
97-R-251	-9100	-9500	Cv		sz	70	pit	gentle slope	3	well	none	low-mod	none	none	70	dark grey-brown	S-M-L	A-SA-SR	siltstone;aphanitic andesite mafic; chlorite colored andesite		9400 in swamp
97-R-252	-9100	-9600	Mv		sz Dmm	45	pit	flat		mod-well	non-weak	low-mod	non-mild	non-weakly	70	dark grey-brown	S-M	SA-SR	mafic siliceous andesite; mafic andesite; diorite		
97-R-400	-9300	-9000	Mb		sz	80	pit	slope		mod-well	none	low-mod	none	none	70	dark grey-brown	S-M	SA-SR	conglomerate;sand stone;mafic andesite, m.g.		
97-R-401	-9300	-9100	Cv		zs	80	pit	flat,rolli ng hills		mod-well	none	low	mild	none	65	dark grey-brown		A-SA	conglomerate & sandstones		
97-R-402	-9300	-9400	Mb	Cv	zs	65	pit	slope		mod-well	none	low-mod	non-mild	none	70	brown	S-M	SA-SR	intermediate andesite m.g.		9200,9300 in swamp
97-R-403	-9300	-9500	Cv		zs	1	roadcut	rolling hills		well	none	low	mild-mod	none	70	brown-orange	S-M	A-SA-SR	mafic andesite; very lge diorite; sandstone		
97-R-404	-9300	-9600	Cv	Mb	sz Dmm	65	pit	rolling slope		mod	non-weak	low-mod	none	none	70	dark grey-brown	S	SA-SR	mafic andesite; diorite		
97D-13	-10800	-8550	Cv	Mb	sz Dmm	45	pit	slope	25	mod-well	weak	low-mod	none	weakly	75	light grey-brown	M-L	SA-SR	fg andesite + fg grano dio w/ 1% py	gy andesite	md felsic (grano-dio?) w/ 3-5% py + tr cp
97D-14	-10800	-8650		Mbr	sz Dmm	45	pit	steep slope	40	mod-well	weak	low-mod	none	weakly	80	light grey-brown	M-L	SA-SR	greenish mg dio		
97D-15	-10800	-8750		Cv	sz Dmm	50	pit	steep slope	35	well					65	light grey-brown	L	A-SA			
97D-16	-10675	-8775	Cv	Mbr	sz Dmm	50	pit	steep slope		well	weak	low-mod	none	weakly	60	light grey-brown	L	SA-SR	dio		
97D-17	-10700	-8650		Cb	sz	40	pit	steep slope	35	well	none	low	mod	none	50	brown-orange	M	A	qtz rich dio w/ py found on frac		
97D-18	-10700	-8550		Mbr	sz Dm	60	pit	steep slope	35	well	none	mod	mild	none	60	brown-orange	M	A-SA-SR	fg mafic qtz dio w/ tr py		

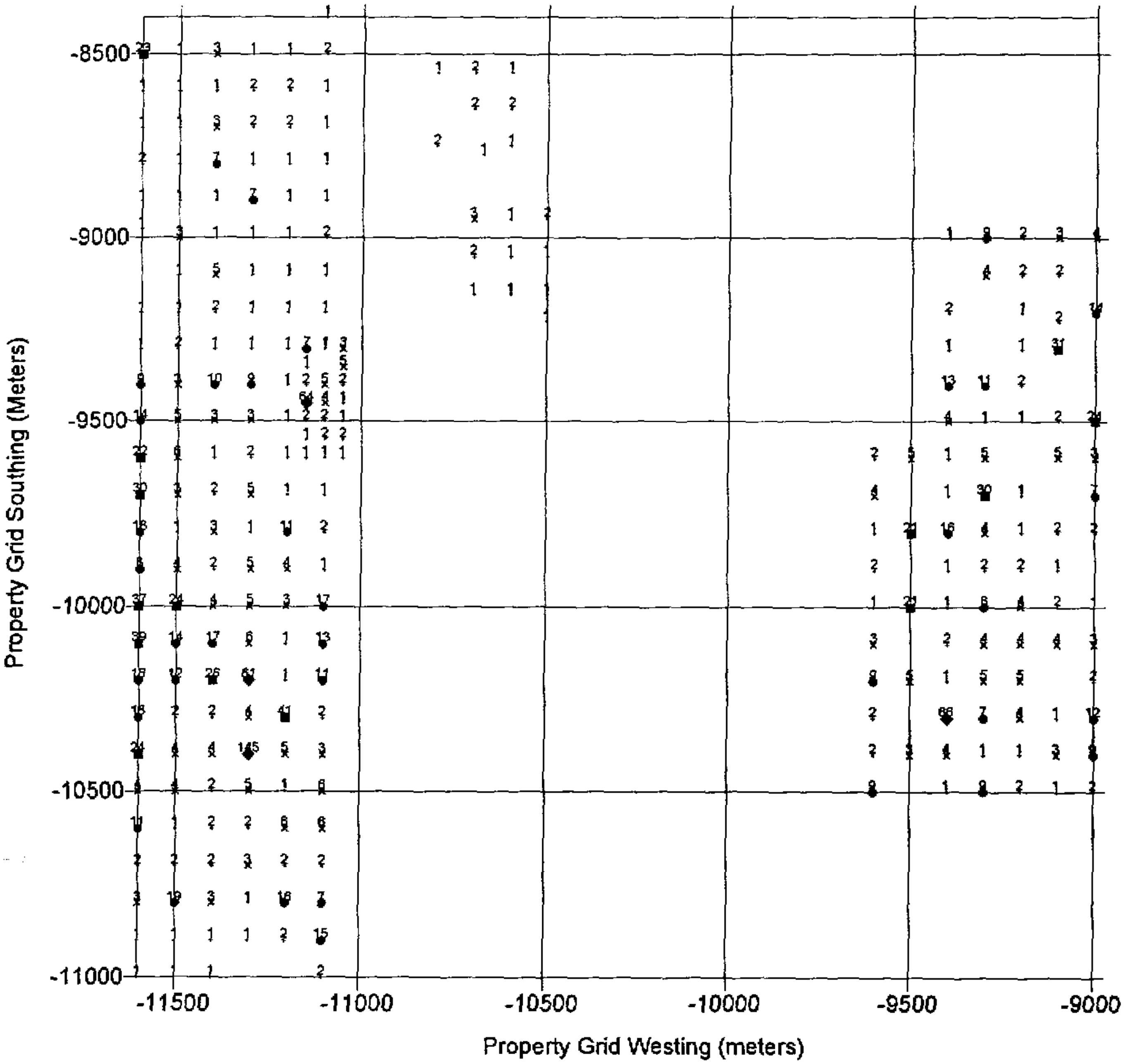
Field Observations for Property Scale Geochemical Samples

SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97D-19	-10600	-8550	Cv	R	sz	40	pit	steep slope	40	well	none	low	none	none	50	brown-orange	M	A			
97D-20	-10600	-8650		Mbr	sz Dm	60	pit	slope	25	well	none	low	mod	none	70	brown-orange	M	SR			
97D-21	-10600	-8750		Mb	sz Dm	90	pit	steep slope	40	well	weak	mod	none	weakly	70	light grey	M	SA-SR	fg mafic		
97D-22	-10700	-8950	Cv	R	s Dmm	25	pit	slope	22	well	none	low	mod	none	50	brown-orange	L	A-SA		granodio (qtz, f-spar, biot, hornbl	
97D-23	-10700	-9050		Cv/Mv	zs Dmm	55	pit	slope	12	well	none	low	mod	none	65	brown-orange	M-L	SA-SR	gy-green andesite w/ tr py		
97D-24	-10700	-9150		Cv//Mv	s Dm	30	pit	slope	19	well	none	low	mod	none	60	brown-orange	L	A-SA-SR		qtz dio w/ tr py	
97D-25	-10600	-9150	Cv	R	sz Dmm	40	pit	slope	15	mod	none	low	mild	none	55	brown	M-L	A-SA		qtz dio w/ tr py	
97D-26	-10600	-8950		Mbr	scz Dm	70	pit	steep slope	40	well	weak	mod	mild	weakly	70	brown-orange	M	A-SA-SR	qtz dio w/ finely diss py	rusty dio	
97D-27	-10600	-9050	Mvr	R	cz Dm	70	pit	slope	20	well	weak	mod	mild	weakly	70	brown	M	SR		dio	
97D-28	-10500	-8950		Mbr	cz	70	pit	steep slope	35	well	none	mod	mod	none	70	brown-orange	M	A-SA-SR	dio		
97D-29	-10500	-9050		Mbr	cz	70	pit	slope	25	well	weak	mod	mild	weakly	70	brown	M	SA-SR-R	fg mafic green-gy andesite w/ tr py		
97D-30	-10500	-9150		Mb	cz Dm	70	pit	slope	25	weak	weak	mod	mild	weakly	70	brown	M	SR-SA			
97D-31	-10500	-9225		Mb	z Dmm	70	pit	slope	10	mod	mod	low-mod	none	weakly	80	light grey	M-L	SA-SR	qtz dio		

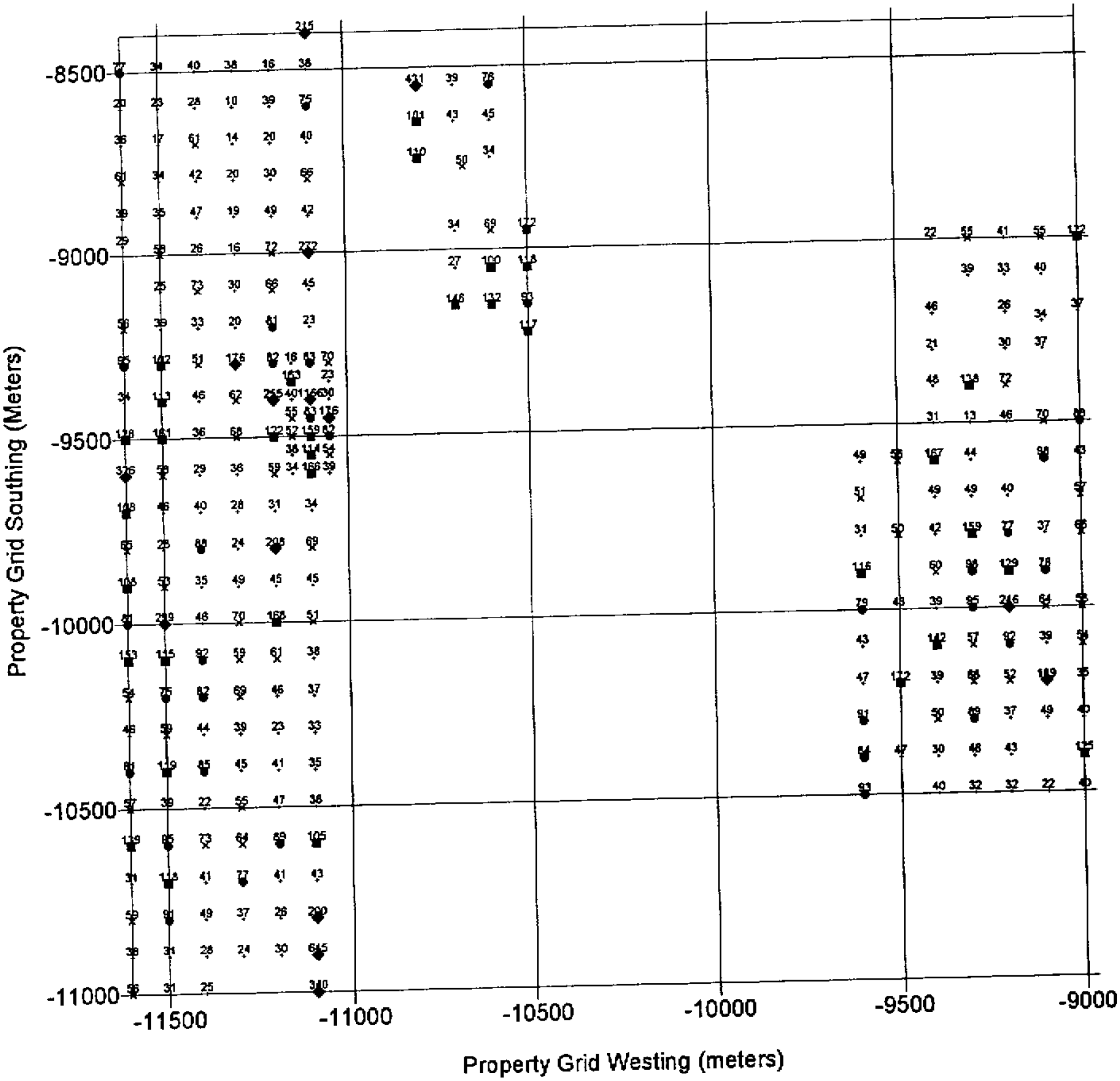


Sample Locations (97R - #)
Property Scale Geochemical Till Sampling Survey
Property Grid Southing (Meters)
Property Grid Westing (meters)

GOLD (ppb)
Property Scale Geochemical Till Sampling Survey



COPPER (ppm)
Property Scale Geochemical Till Sampling Survey



Detailed Scale C- horizon Geochemisty

SAMPLES	Westing	Southing	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
97D-1	-10200	-10100	9	1903	27	149	0.3	42	34	1340	6.98	18	< 5	< 2	2	62	< .2	< 2	< 2	85	0.66	0.11	18	44	1.13	450	0.14	< 3	2.26	0.02	0.27	< 2	64
97D-2	-10200	-10175	6	1016	36	142	< .3	66	23	1029	5.7	40	< 5	< 2	< 2	45	< .2	3	< 2	103	0.61	0.071	19	133	1.9	263	0.18	< 3	2.27	0.01	0.18	< 2	33
97D-3	-10200	-10200	5	599	23	96	< .3	31	11	430	3.98	22	< 5	< 2	< 2	29	< .2	< 2	< 2	69	0.27	0.038	8	50	0.81	144	0.1	< 3	1.7	0.01	0.12	< 2	36
97D-4	-10200	-10300	60	1399	34	433	0.6	25	137	2793	17.47	50	< 5	< 2	< 2	112	1.2	2	< 2	69	0.49	0.432	23	57	0.7	165	0.1	< 3	1.74	0.04	0.36	< 2	44
97D-5	-10150	-10300	34	954	37	250	0.8	27	38	1633	11.63	411	< 5	< 2	< 2	39	< .2	22	4	99	0.41	0.124	15	38	0.44	220	0.04	< 3	1.89	0.01	0.08	< 2	18
97D-6	-10150	-10165	15	1771	40	181	0.5	62	35	1274	7.21	52	< 5	< 2	< 2	69	0.8	< 2	< 2	101	0.6	0.102	17	106	1.34	880	0.16	< 3	1.9	0.02	0.32	< 2	84
97D-7	-10000	-9850	2	53	4	116	< .3	37	17	360	4.41	8	< 5	< 2	< 2	21	0.3	2	< 2	95	0.22	0.054	8	59	0.99	226	0.1	< 3	2.8	0.01	0.07	< 2	8
97D-8	-10000	-9950	2	121	17	107	< .3	33	18	802	4.58	22	< 5	< 2	< 2	26	< .2	< 2	< 2	77	0.26	0.068	9	50	0.73	209	0.07	< 3	2.07	0.01	0.09	2	6
97D-9	-10000	-10000	1	80	21	85	0.3	26	18	940	4.38	23	< 5	< 2	< 2	36	< .2	< 2	< 2	76	0.38	0.058	12	35	0.57	183	0.07	< 3	1.5	0.01	0.06	< 2	8
97D-10	-10000	-10050	7	545	26	85	< .3	20	19	886	5.67	97	< 5	< 2	< 2	36	< .2	3	6	60	0.24	0.111	19	41	0.45	148	0.06	< 3	1.12	0.02	0.07	< 2	22
97D-11	-10000	-10100	20	309	13	211	0.3	10	22	617	13.89	2	< 5	< 2	< 2	86	< .2	2	8	58	0.14	0.405	20	33	0.14	401	0.04	< 3	1.08	0.04	0.19	< 2	30
97D-12	-10000	-10200	26	300	22	194	0.4	6	61	3674	21.12	5	< 5	< 2	< 2	73	< .2	3	3	42	0.18	0.657	24	18	0.28	415	0.03	< 3	1.51	0.03	0.21	< 2	12
97D-32	-10085	-9925	4	1483	48	100	< .3	32	17	780	4.72	40	< 5	< 2	< 2	37	0.6	< 2	4	81	0.39	0.068	16	35	0.7	318	0.07	< 3	1.83	0.01	0.1	< 2	21
97D-33	-10075	-9950	4	605	20	116	< .3	29	32	490	4.51	42	< 5	< 2	< 2	25	< .2	4	3	77	0.17	0.068	7	33	0.63	202	0.07	< 3	2.28	0.01	0.06	< 2	28
97D-34	-10075	-9975	7	1029	35	96	0.3	29	24	591	5.35	63	< 5	< 2	< 2	36	0.4	< 2	7	71	0.3	0.089	8	32	0.53	223	0.05	< 3	1.96	0.01	0.06	< 2	22
97D-35	-10075	-10000	4	285	11	118	0.3	33	21	1151	5.35	37	< 5	< 2	< 2	36	0.3	< 2	< 2	91	0.44	0.056	19	40	0.72	271	0.06	< 3	2.19	0.01	0.07	< 2	5
97D-36	-10075	-10025	3	108	16	131	< .3	36	19	914	4.83	33	< 5	< 2	< 2	30	< .2	2	2	86	0.34	0.066	9	47	0.65	248	0.05	< 3	2.24	0.01	0.08	< 2	2
97D-38	-10400	-9950	20	642	54	173	0.3	35	17	1398	5.56	63	< 5	< 2	2	93	0.3	2	< 2	84	0.52	0.087	15	30	0.54	295	0.05	< 3	1.54	0.01	0.08	< 2	25
97D-39	-10400	-10050	3	136	14	114	< .3	29	13	618	3.71	24	< 5	< 2	< 2	61	< .2	< 2	< 2	70	0.28	0.077	8	26	0.51	198	0.06	< 3	1.6	0.01	0.07	< 2	7
97D-40	-10400	-10150	5	307	16	144	0.3	41	23	1424	4.76	35	< 5	< 2	< 2	53	0.5	< 2	< 2	86	0.65	0.075	14	39	0.77	330	0.05	< 3	2.13	0.01	0.14	< 2	14
97D-41	-10400	-10250	9	319	28	118	< .3	43	22	1159	5.43	31	< 5	< 2	< 2	96	< .2	< 2	3	84	0.56	0.054	19	42	0.79	291	0.06	< 3	2.27	0.02	0.13	< 2	9
97D-42	-10400	-10300	5	148	17	90	< .3	30	18	1002	4.38	31	< 5	< 2	< 2	67	0.3	< 2	< 2	75	0.47	0.058	12	38	0.65	219	0.05	< 3	1.71	0.01	0.1	< 2	7
97D-43	-10350	-10300	11	228	7	170	0.4	75	31	1289	6.62	22	< 5	< 2	< 2	109	0.4	< 2	< 2	113	0.69	0.086	10	188	1.46	316	0.08	< 3	2.57	0.03	0.19	< 2	8
97D-44	-10350	-10250	3	176	13	117	< .3	30	17	954	4.25	25	< 5	< 2	< 2	80	0.6	2	< 2	73	0.43	0.064	12	35	0.61	211	0.05	< 3	1.81	0.01	0.08	< 2	3
97D-45	-10350	-10150	2	157	10	96	< .3	30	16	978	4.17	19	< 5	< 2	< 2	40	< .2	< 2	< 2	72	0.42	0.057	12	37	0.61	282	0.04	< 3	1.87	0.01	0.1	< 2	3
97D-46	-10350	-10200	1	72	8	90	< .3	24	12	510	3.67	15	< 5	< 2	< 2	70	0.3	< 2	< 2	65	0.33	0.113	7	28	0.45	222	0.05	< 3	1.58	0.01	0.06	< 2	8
97D-47	-10350	-10100	5	711	22	147	0.5	41	19	1015	4.63	26	< 5	< 2	< 2	197	< .2	2	< 2	81	0.56	0.06	14	44	0.72	299	0.05	< 3	2.13	0.01	0.1	< 2	13
97-D-48	-10050	-9700	2	74	11	93	0.8	28	17	748	5.34	26	< 5	< 2	< 2	26	0.2	< 2	3	90	0.26	0.047	9	31	0.68	187	0.03	< 3	2.26	0.01	0.07	< 2	39
97-D-49	-10050	-9750	29	171	24	121	0.4	17	33	473	11.91	24	6	< 2	2	33	0.3	< 2	< 2	143	0.3	0.129	15	34	0.76	181	0.05	< 3	2.97	0.01	0.11	< 2	25
97-D-50	-10100	-9750	7	202	24	105	0.3	36	35	674	8.55	30	5	< 2	< 2	45	0.3	< 2	< 2	132	0.35	0.075	9	54	1.01	207	0.07	< 3	2.78	0.01	0.19	< 2	19
97-D-51	-10150	-9750	2	47	13	71	< .3	19	12	713	4.11	19	< 5	< 2	< 2	34	< .2	< 2	< 2	69	0.41	0.037	9	24	0.58	154	0.08	< 3	1.58	0.02	0.06	< 2	2
97-D-52	-10400	-10325	6	213	13	123	< .3	120	33	1136	8.26	10	< 8	< 2	2	88	< .2	< 3	< 3	120	0.64	0.099	8	364	2.29	530	0.09	3	3.12	0.03	0.44	< 2	7
97-D-53	-10400	-10275	6	138	10	107	0.3	31	14	774	4.14	20	< 8	< 2	2	72	0.4	< 3	3	64	0.45	0.036	14	31	0.58	275	0.04	3	1.88	0.01	0.09	< 2	15
97-D-54	-10375	-10275	5	157	12	104	< .3	29	18	1071	4.32	20	< 8	< 2	< 2	67	0.3	< 3	< 3	66	0.52	0.063	15	34	0.67	220	0.04	4	1.67	0.02	0.09	< 2	14
97-D-55	-10375	-10250	3	132	14	102	< .3	27	19	1299	4.36	27	< 8	< 2	< 2	84	0.7	< 3	< 3	68	0.52	0.131	11	31	0.58	283	0.04	3	1.64	0.01	0.09	< 2	3
97-D-56	-10375	-10225	5	294	17	88	0.3	31	19	1142	5.3	31	< 8	< 2	3	66	< .2	< 3	< 3	77	0.52	0.071	18	39	0.74	294	0.05	4	1.74	0.02	0.09	< 2	9
97-D-57	-10375	-10200	3	81	16	63	0.3	24	15	658	3.65	23	< 8	< 2	< 2	28	< .2	< 3	< 3	62	0.26	0.045	7	26	0.47	162	0.04	< 3	1.58	0.01	0.05	< 2	6
97-D-58	-10375	-10175	3	235	18	119	< .3	28	21	1776	4.46	26	< 8	< 2	2	50	0.4	< 3	< 3	70	0.56	0.111	15	38	0.62	387	0.04	4	1.77	0.01	0.12	< 2	6
97-D-59	-10125	-10025	16	1540	44	123	< .3	22	15	568	5.98	58	< 8	< 2	4	31	< .2	7	< 3	57	0.35	0.096	21	31	0.94	281	0.12	< 3	1.6	0.01	0.09	< 2	132
97-D-60	-10125	-10050	4	638	23	98	0.3	28	17	1047	4.73	22	< 8	< 2	2	32	0.2	3	< 3	66	0.34	0.076	13	48	0.75	326	0.08	< 3	1.53	0.02	0.12	< 2	28
97-D-61	-10175	-10100	2	77	10	62	< .3	22	10	347	3.45	21	< 8	< 2	2	20	< .2	< 3	< 3	63	0.18	0.028	9	24	0.45	124	0.04	< 3	1.48	0.01	0.05	< 2	3
97-D-62	-10125	-10100	2	143	11	68	< .3	22	12	471	3.59	21	< 8	< 2	< 2	25	0.2	< 3	< 3	63	0.23	0.037	9	25	0.44	139	0.04	< 3	1.57	0.01	0.04	< 2	2
97-D-63	-10125	-10125	3	219	13	74	< .3	22	11	657	3.5	26	< 8	< 2	2	36	0.2	< 3	< 3	59	0.42	0.064	12	34	0.42	320	0.04	< 3	1.25	0.02	0.05	< 2	5
97-D-64	-10125	-10150	7	668	23	92	< .3	28	25	1111	7.07	52	< 8	< 2	< 2	32	0.2	< 3	< 3	85	0.44	0.067	21	37	0.55	291	0.04	< 3	1.72	0.01	0.08	< 2	22
97-D-65	-10175	-10200	21	3709	22	148	1.1	33	26	1068	5.65	59	< 8	< 2	2	33	0.4	6	< 3	69	0.4	0.082	15	33	0.56	180	0.05	< 3	1.49	0.01	0.08	< 2	77
97-D-66	-10150	-10150	4	261	12	89	< .3	28	15	399	4.54	24	< 8	< 2	< 2	30	< .2	< 3	< 3	68	0.21	0.039	9	30	0.54	248	0.05	< 3	1.93	0.01	0.06	< 2	12
97-D-67	-10000	-10400	5	96	282	337	0.9	22	36	2516	13.54	29	< 8	< 2	< 2	50	0.4	< 3	< 3	64	0.38	0.231	27	38	0.44	571	0.02	< 3	1.77	0.02	0.13	< 2	20
97-D-68	-10000	-10450	2	95	10	124	< .3	17	26	1869	7.8	4	< 8	< 2	< 2	75	0.5	< 3	< 3	85	0.78	0.174	6	24	0.48	347	0.02	3	1.62	0.01	0.12	< 2	16
97-D-69	-10000	-10500	2	94	16	83	< .3	29	26	1223	5.47	22	< 8	< 2	2	31	0.2	< 3	< 3	89	0.39	0.049	9	30	0.76	279	0.05	5	1.84	0.01	0.12	< 2	25

Detailed Scale C- horizon Geochemisty

SAMPLES	Westing	Southing	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
97-D-70	-10275	-10075	4	210	15	206	0.4	22	16	1286	3.39	15	< 8	< 2	< 2	169	0.6	< 3	< 3	64	0.63	0.061	8	37	0.45	390	0.05	3	1.31	0.01	0.12	< 2	18
97-D-71	-10275	-10100	8	1295	21	136	0.5	40	17	1101	5.43	30	< 8	< 2	3	95	0.4	< 3	< 3	76	0.86	0.082	18	55	1.04	381	0.07	5	1.96	0.02	0.15	< 2	40
97-D-72	-10275	-10125	2	103	11	70	< .3	26	13	553	3.86	21	< 8	< 2	2	44	< .2	< 3	< 3	67	0.28	0.023	8	33	0.66	120	0.06	< 3	1.69	0.01	0.07	< 2	23
97-D-73	-10275	-10150	7	347	13	91	< .3	29	15	449	4.73	25	< 8	< 2	< 2	43	< .2	< 3	< 3	69	0.24	0.036	7	29	0.59	144	0.05	< 3	1.76	0.01	0.07	< 2	20
97-D-74	-10275	-10175	11	1159	12	189	0.3	49	21	295	5.79	19	< 8	< 2	3	82	< .2	< 3	< 3	118	0.2	0.039	9	76	1.69	378	0.24	< 3	2.82	0.01	0.1	< 2	21
97-D-75	-10275	-10200	19	1255	10	159	< .3	18	18	413	5.94	11	< 8	< 2	2	34	< .2	< 3	< 3	53	0.32	0.162	11	17	1.08	193	0.19	< 3	2.37	0.01	0.16	< 2	72
97-D-76	-10325	-10200	5	271	14	77	< .3	31	17	943	4.59	19	< 8	< 2	3	52	< .2	< 3	< 3	72	0.43	0.055	23	48	0.75	366	0.06	< 3	1.8	0.01	0.12	< 2	13
97-D-77	-10325	-10175	3	332	9	119	< .3	36	16	865	4.57	12	< 8	< 2	2	51	0.2	< 3	< 3	81	0.24	0.054	11	49	0.92	195	0.08	< 3	1.96	0.01	0.12	< 2	13
97-D-78	-10325	-10150	2	126	11	112	< .3	24	13	676	3.36	16	< 8	< 2	< 2	33	0.2	< 3	< 3	57	0.33	0.074	10	27	0.52	194	0.05	< 3	1.43	0.01	0.08	< 2	130
97-D-79	-10325	-10100	4	407	22	139	0.3	30	16	688	4.66	30	< 8	< 2	< 2	120	0.4	< 3	< 3	70	0.32	0.049	12	32	0.58	195	0.05	< 3	1.73	0.01	0.09	< 2	40
97-D-80	-10325	-10075	4	491	11	97	< .3	30	13	303	3.77	21	< 8	< 2	2	73	< .2	< 3	< 3	69	0.25	0.042	9	40	0.61	307	0.07	< 3	1.59	0.01	0.06	< 2	48
97-D-81	-10300	-10225	5	1020	17	91	< .3	30	28	1183	5.63	56	< 8	< 2	2	59	0.2	3	< 3	71	0.46	0.08	17	41	0.69	358	0.06	< 3	1.58	0.02	0.09	< 2	37
97-D-82	-10275	-10225	19	639	15	146	0.4	21	16	497	6.28	19	< 8	< 2	< 2	30	0.4	< 3	< 3	74	0.25	0.089	11	32	0.58	274	0.07	< 3	1.98	0.01	0.1	< 2	51
97-D-83	-10275	-10250	169	5621	87	222	0.6	52	30	1559	21.9	632	< 8	< 2	< 2	136	0.3	5	< 3	178	0.6	0.097	41	36	0.35	323	0.01	< 3	1.34	0.01	0.08	< 2	77
97-D-84	-10275	-10275	11	562	15	163	0.3	66	21	616	6.51	22	< 8	< 2	< 2	90	1	< 3	< 3	93	0.51	0.06	10	137	1.13	300	0.06	< 3	2.25	0.02	0.15	< 2	12
97-D-85	-10325	-10225	4	113	10	66	< .3	23	12	531	3.38	18	< 8	< 2	< 2	82	< .2	< 3	< 3	58	0.35	0.042	10	28	0.49	165	0.05	< 3	1.31	0.01	0.07	< 2	9
97-D-86	-10325	-10250	2	69	11	100	< .3	25	13	535	3.93	24	< 8	< 2	< 2	63	0.3	< 3	< 3	65	0.36	0.045	9	28	0.47	171	0.05	< 3	1.69	0.01	0.08	< 2	1
97-D-87	-10325	-10275	6	361	13	119	< .3	51	22	807	6.68	25	< 8	< 2	< 2	69	< .2	< 3	< 3	84	0.46	0.063	14	109	1.08	311	0.07	4	2.07	0.03	0.18	< 2	5
97-D-88	-10300	-10275	7	502	12	122	< .3	44	15	634	4.76	23	< 8	< 2	< 2	70	0.3	< 3	< 3	72	0.47	0.052	11	64	0.74	295	0.05	3	1.94	0.02	0.12	< 2	6
97-D-89	-10300	-10250	8	520	12	98	< .3	27	15	696	4	21	< 8	< 2	< 2	57	0.2	< 3	< 3	61	0.44	0.06	12	30	0.54	190	0.05	4	1.54	0.02	0.1	< 2	13

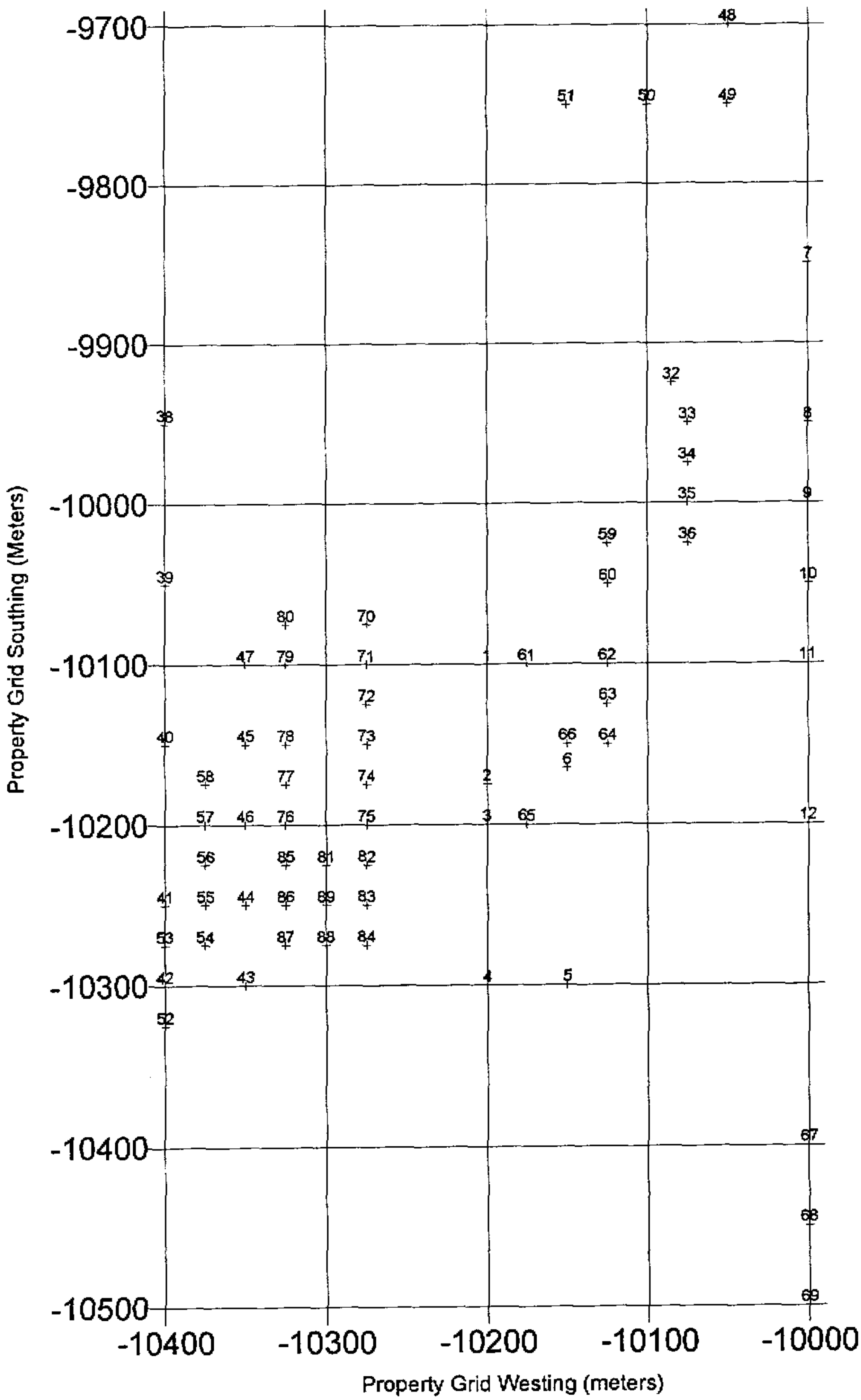
Field Observations for Detailed Samples

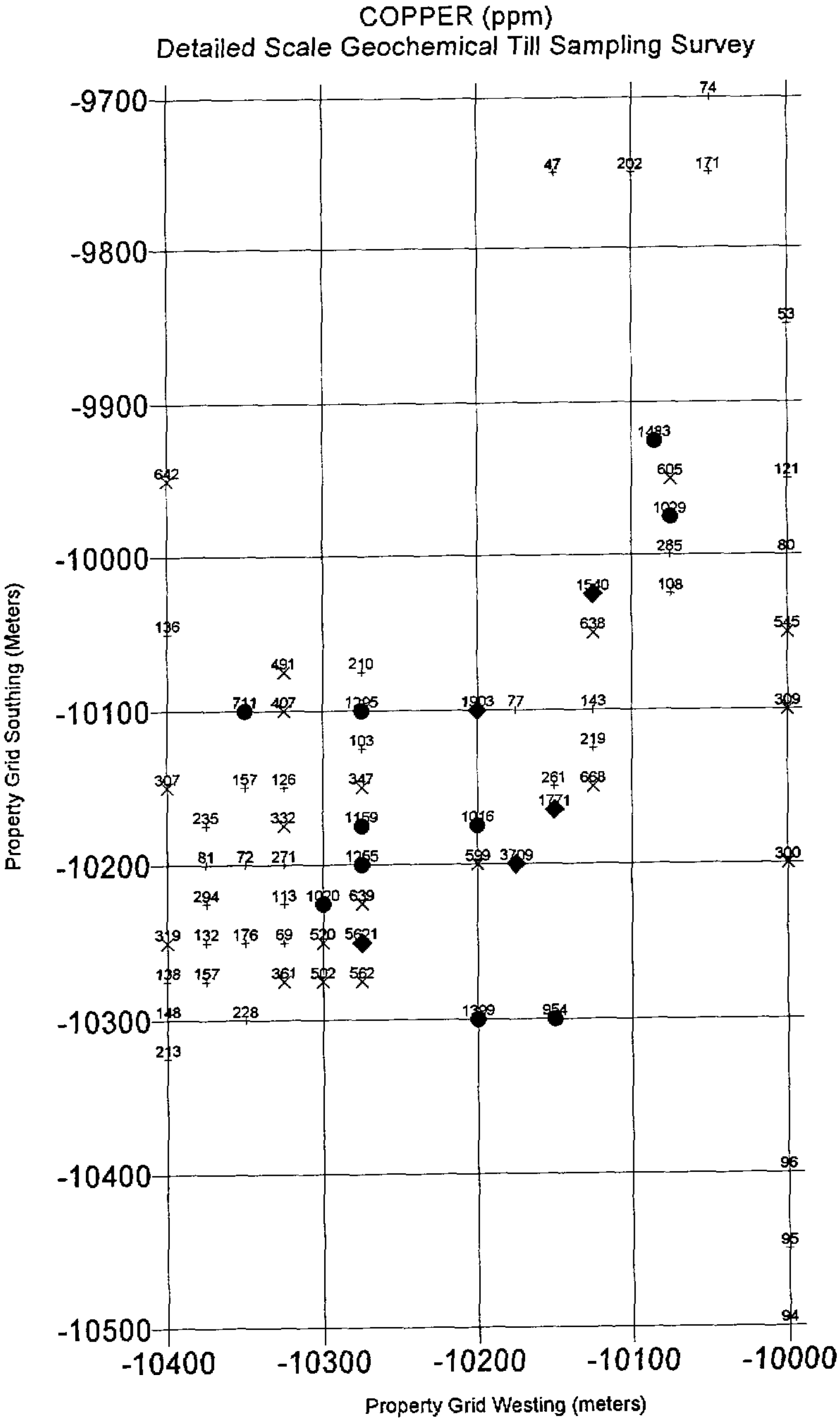
SAMPLES	Westing	Southing	Map Unit: c1 horizon	Map Unit: c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97D-1	-10200	-10100	Fgb	Mvr R	zs Dms	300	roadcut	slope	25	well	mod	high	high	weakly	65	brown-orange	M-L	SA-SR	highly oxd BFP	alt BFP to fresh BFP	next to Chapman zone,
97D-2	-10200	-10175	Mvr	R	zs Dm	100	roadcut	slope	15	mod-well	mod	high	none	mod	70	brown	M	A-SA-SR	BFP + gy andesite 2% py + breccia	Chapman Breccia	boulders of breccia-in situ?
97D-3	-10200	-10200	Mvr	R	s Dmm	40	roadcut	slope	20	well	weak	mod	none	none	65	light grey-brown	M	A-SA-SR	BFP + some Bx	BFP	near sample (96) 3390
97D-4	-10200	-10300		Cv	zsg	43	pit	slope	25	well	none	low	mod	none	30	brown-orange	L-Pbl	A-SA	cg andesite rusty f-spar xals, gray-matix 2-3% py		
97D-5	-10150	-10300		Cv	zs Dm	45	pit	slope	25	well	none	low	mod	none	50	brown-orange	L	A-SA	whitish gy andesite? highly wea vienlets py 1-2%		
97D-6	-10150	-10165		Cb	sz Dmm	150	old roadcut	slope	20	mod	weak	mod	none	none	80	brown	M	SA-SR	BFP rusty,slighty bleached+ Bx, rusty		
97D-7	-10000	-9850	Mvr	R	sz Dm	80	roadcut	slope	15	well	none	low	high	none	70	brown-orange	M	SA-SR	cg felsic w/ qtz, rust, py		
97D-8	-10000	-9950	Mvr	R	sz Dmm	80	roadcut	slope	15	well	none	low	mod	none	65	brown-orange	M-L	SA-SR		fg mafic (andesite)	
97D-9	-10000	-10000		Mb	zs Dm	100	roadcut	slope	20	well	weak	high	none	wealy	70	light grey	M	SA-SR	fg green andesite w/ tr py		
97D-10	-10000	-10050		Mbr	zs Dm	120	roadcut	slope		well	weak	mod	none	wealy	70	light grey	M	SA-SR	fg mafic w/ tr py		
97D-11	-10000	-10100		Cb	zs Dm	40	pit	slope	20	well	none	low	high	none	50	brown-orange	L-Pbl	A-SA	andesite w/ tr py		
97D-12	-10000	-10200		Cb	sg	55	roadcut	slope	30	well	none	low	high	none	50	brown-orange	L	A	mg andesite w/ py on frac, diss +tr cp	mg andesite w/ py viens	rare bx boulders on road
97D-32	-10085	-9925		Mb	cz Dm	125	roadcut	slope	30	well	mod	mod-high	none	weakly	70	light grey-orange	M	SA-SR	fg oxd andesite w/ py tr cp		
97D-33	-10075	-9950		Mbr	sz Dm	80	pit	slope	7	well	none	low	mod	none	70	brown	S-M	SA-SR	fg andesite & 1 small bx		
97D-34	-10075	-9975		Mbr	zs Dm	70	pit	steep slope	40	well	none	low	mild	none	80	light grey	M	SA-SR	fg andesite w/ hem tr py		
97D-35	-10075	-10000		Mbr//Fg	sz Dm	90	pit	slope	25	well	none	low	none-mild	none	80	light grey-orange	S-M	SA-SR	fg oxd andesite		
97D-36	-10075	-10025		Mbr	z Dm	90	pit	steep slope	35	well	none	low	mod	none	60	brown-orange	M	SA-SR	dk green oxd andesite		
97D-38	-10400	-9950		Mb	sz Dm	140	roadcut	slight slope	5	well	weak	mod	none	weakly	70	light grey	M	SA-SR	oxd andesite		
97D-39	-10400	-10050		Mbr	sz Dm	65	pit	slope	7	well	none	mod	mod-high	none	70	brown-orange	M	SA-SR	BFP		
97D-40	-10400	-10150		Mb	zc Dm	60	pit	flat		well	strong	high	none	mod	80	light grey	M	SA-SR			
97D-41	-10400	-10250		Mb	cz Dm	60	pit	slight slope	7	mod	weak	mod	none	weakly	70	light grey	M	SA-SR	andesite		
97D-42	-10400	-10300		Mbr	sz Dm	60	roadcut	slope	10	well	none	low	none	none	70	light grey	M	A-SA-SR	gy andesite w/ diss py tr cp		
97D-43	-10350	-10300		Mbr	sz Dm	70	pit	slight slope	5	well	none	low	none	none	80	light grey-brown	M	SR			
97D-44	-10350	-10250		Mbr	sz Dm	80	pit	slope	10	well	none	low	mild	none	70	light grey-orange	S-M	SR			
97D-45	-10350	-10150		Mb	c Dm	350	trench	slope	10	well	strong	high	none	well	70	dark grey	M-L	SR			found 1 silty argillite w/ fossil
97D-46	-10350	-10200		Mbr	sz Dm	75	pit	slope	10	well	none	low	mod	none	70	brown-orange	M	SA-SR			
97D-47	-10350	-10100		Mbr	sz Dm	80	pit	slope	12	well	none	low	mod	none	80	brown-orange	M	SR			
97-D-48	-10050	-9700		Mbr	cs Dm	90	pit	slope	25	well	none	low	mod	none	75	brown-orange	M	SA-SR			
97-D-49	-10050	-9750		Mbr/Cb	zs Dm	70	pit	slope	70	well	none	low	high	none	60	orange	M	A-SA-SR			

Field Observations for Detailed Samples

SAMPLES	Westing	Southing	Map Unit c1 horizon	Map Unit c2 horizon	Sample Medium	Depth (cm)	Exposure	Topo pos.	Slope (deg)	Drainage	Fissility	Density	Oxidation	Jointing	Matrix %	Colour	Pebble Mode	Pebble Shape	Pebble Lithology (Angular)	Bedrock	Comments
97-D-50	-10100	-9750		Mbr	csz Dm	70	pit	steep slope	70	well	none	low	high	none	70	brown-orange	M	A-SA-SR	alt BFP (?)		
97-D-51	-10150	-9750		Mb	cz	100	pit	slope	25	well	none	mod	none	none	80		M	SR			
97-D-52	-10400	-10325		Mbr	sz Dm	75	pit	slope	13	well	none	low	mild	none	70	light grey-brown	M	A-SA-SR	andesite. with py on frac andesite finely diss.		
97-D-53	-10400	-10275		Mb	sc Dm	70	pit	slope	15	well	none	low-mod	mild	none	75	light grey-or	M	SR			
97-D-54	-10375	-10275		Mb	cz Dm	65	pit	slope	20	well	none	low-mod	none	none	75	light grey-brown	M	SA-SR	very oxidized andesite, FeOx. BFP		
97-D-55	-10375	-10250		Mbr	zs Dm	70	pit	slope	20	well	none	low	none	none	80	light grey	M	SR			
97-D-56	-10375	-10225		Mb	sz Dm	70	pit	slope	20	well	none	low-mod	none	none	70	light grey	M	SA-SR			fine grain mafic layer near top of pit
97-D-57	-10375	-10200		Mbr	sz Dm	70	pit	slope	25	well	none	low	none	none	80	light grey	M	SR			
97-D-58	-10375	-10175		Mbr	zs Dm	60	pit	flat		well	none	low-mod	none	none	60	dark grey-brown	M	SR			
97-D-59	-10125	-10025	Mv	R	sz Dm	65	roadcut, trench	slope	30	well	none	mod	none	none	70	light grey	M	A-SA-SR	andesite with py	andesite with py	had to move 12m uphill-area very disturbed
97-D-60	-10125	-10050		Mbr	sz Dm	80	streamcut	slope	30	well	none	low	none	none	70	light grey	M	SA-SR	andesite		close to 5502B
97-D-61	-10175	-10100		Mb	sz Dm	70	pit	slope	30	well	none	low-mod	none	none	80	light grey	M	Sa-SR	andesite		
97-D-62	-10125	-10100		Mb	sz Dm	75	pit	slope	15	well	none	low-mod	none	none	75	light grey	M	SA-SR	andesite		
97-D-63	-10125	-10125	Mb	R	sz Dm	130	trench	slope	15	well	mod	high	none	mod		dark grey	M	A-SA-SR	BFP	BFP	
97-D-64	-10125	-10150		Mbr:Fg	zs Dm	150	roadcut	slope	15	well	none	mod	none	none	65	dark grey	M	SA-SR	andesite.		
97-D-65	-10175	-10200		Mb	sz Dm	80	roadcut	slope	15	well	weak	mod	none	weakly	70	dark grey	M	A-SA-SR	bx BFP		beside DDH - 124; on IP line
97-D-66	-10150	-10150		Mbr	sz Dm	60	pit	slope	20	well	none	low	mild	none	70	light grey-or	M	A-SA-SR	andesite.		
97-D-67	-10000	-10400		Cb	z	50	pit	slope	20	well	none	low	mild	none	50	brown	M	A-SA-SR	wea BFP		
97-D-68	-10000	-10450		Cb	z	30	pit	steep slope	35	well						brown		A	andesite		
97-D-69	-10000	-10500		Mbr//Cb	sz	60	pit	slope	25	well	none	low	none-mild	none	70	light grey	M	A-SA-SR	andesite.		
97-D-70	-10275	-10075		Cb/Mbr	sz	50	pit	slope	5	well	none	low	mild	none	60	brown	M	A-SA-SR	diorite		
97-D-71	-10275	-10100		Mbr/Fg	sz Dm	90	pit	slope	4	mod	none	mod	none	none	55	dark grey-brown	M	SA-SR			
97-D-72	-10275	-10125		Mb	sz Dm	120	pit	slope	15	well	weak	low	none	weakly	70	light grey	M	A-SA-SR	andesite.		
97-D-73	-10275	-10150		Mbr	sz Dm	75		slope	20	well	none	low	none	none	70	light grey	M	A-SA-SR	andesite. with finely diss. py		
97-D-74	-10275	-10175		Mbr	sz Dm	70	pit	slope		mod	none	low	no-mild	none	70	light grey-brown	M	SA-SR	andesite		
97-D-75	-10275	-10200		Cb//Mbr	sz	60	pit	slope	25	well	none	low	none	none	60	light grey	M	A-SA-SR	andesite with tr py		
97-D-76	-10325	-10200	Fg	Mb	cz Dm	140	roadcut	slope		well	weak	mod	none	weakly	70	dark grey	M	SA-SR			
97-D-77	-10325	-10175		Mbr	sz Dm	75	pit	slope	12	well	none	low	none	none	60	light grey	M	SA-SR	andesite, diorite		
97-D-78	-10325	-10150		Mbr	sz Dm	75	pit	slope	30	well	none	low	none	none	80	light grey	M	SA-SR	andesite		
97-D-79	-10325	-10100		Mbr	sz Dm	70	pit	slope	5		none	low	mild	none	70	light grey	M	SA-SR	BFP, andesite		
97-D-80	-10325	-10075		Mbr/Cb	sz Dm	60	pit	slope	6	well	none	low	none	none	60	light grey	M	A-SA-SR	andesite		
97-D-81	-10300	-10225	Mb	R	sc Dm	110	roadcut	slope		well	mod	high	none	mod	70	dark grey	M	SA-SR		andesite with py	
97-D-82	-10275	-10225		Cb//Mbr	cs	70	pit	slope		well	none	low	mod	none	60	brown-or	M	A-SA-SR	Alt. BFP		
97-D-83	-10275	-10250		Mbr:Fg	zcs Dm	75	roadcut	flat		mod	none	low	mild	none	60	brown-or	M	A-SA-SR			
97-D-84	-10275	-10275		Mbr//Cb	sz Dm	70	pit	slope		well	none	low	mild	none	70	brown-or	M	A-SA-SR	andesite		
97-D-85	-10325	-10225		Mb	cz Dm	70	pit	slope		well	none	mod	none	none	70	light grey	M	SR			
97-D-86	-10325	-10250		Mb	cz Dm	70	pit	slope	15	well	none	low	mild	none	80	light grey	M	SR			dup of 97-D 55
97-D-87	-10325	-10275		Mb	sz Dm	70	pit	slope	10	well	none	low-mod	no-mild	none	70	light grey	M	SR			
97-D-88	-10300	-10275		Mb	sz Dm	90	pit	slope	10	well	none	low-mod	none	none	70	light grey	M	SA-SR			
97-D-89	-10300	-10250		Mb	sz Dm	75	pit	slope	10	well	none	low-mod	none	none	70	light grey	M	SA-SR	andesite		

Sample Locations (97D - #)
Detailed Scale Geochemical Till Sampling Survey




COPPER (ppm)
Detailed Scale Geochemical Till Sampling Survey
Property Grid Southing (Meters)
Property Grid Westing (meters)
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-9800
-9900
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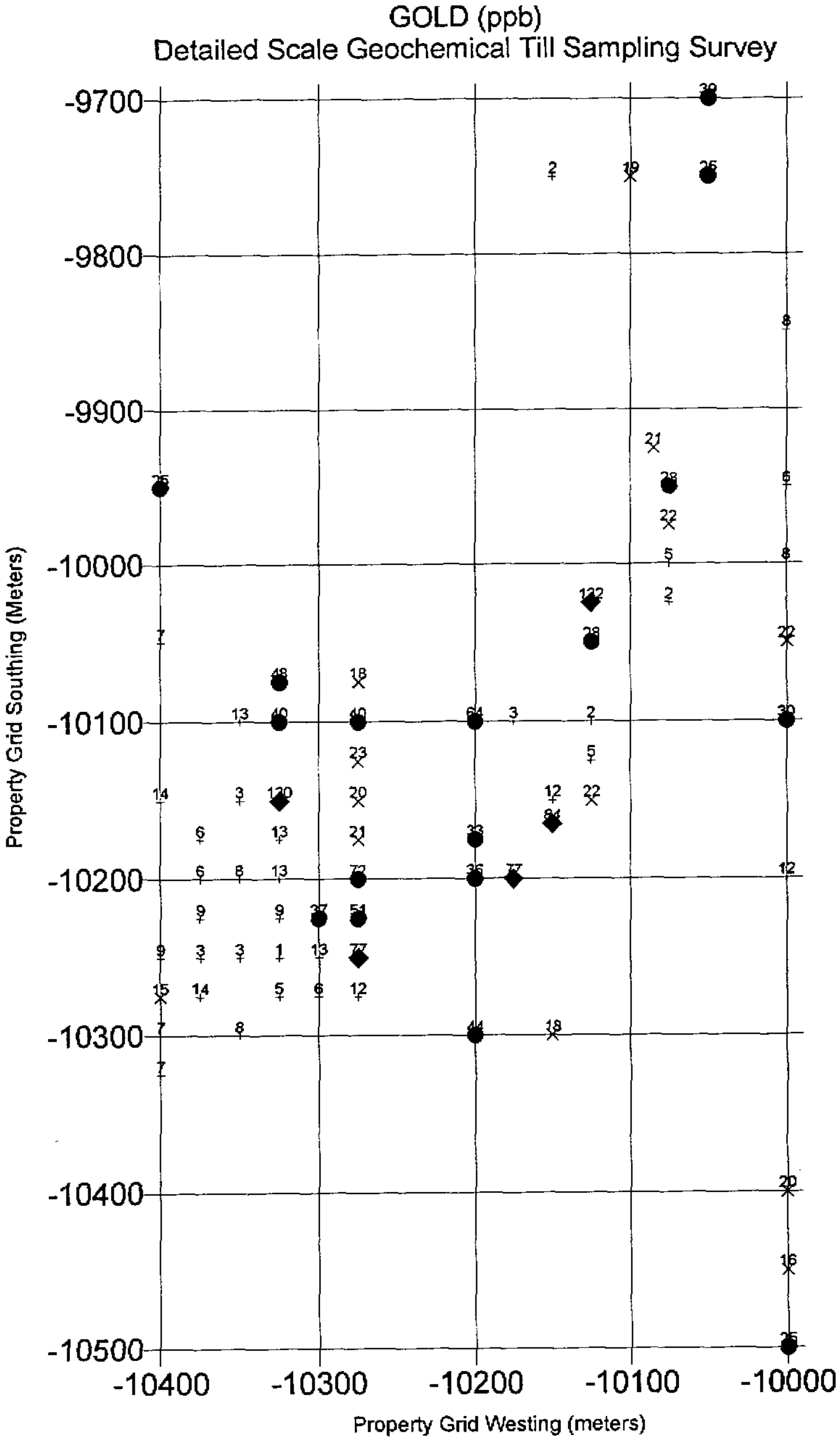
-10100
-10000


GOLD (ppb)
Detailed Scale Geochemical Till Sampling Survey
Property Grid Southing (Meters)
Property Grid Westing (meters)
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-9800
-9900
-10000
-10100
-10200
-10300
-10400
-10500
-10400
-10300
-10200
-10100
-10000

APPENDIX B

Drill Hole Azimuth, Dip, Length and Assay Summary

Summary of Diamond Drilling with Significant Intercepts
(October 1996 to October 1997)

Drill Hole	Coordinates West (m)	Coordinates South (m)	Azimuth (deg.)	Dip Angle (deg.)	Hole Length (m)	Notable Intercepts Interval (m) From	To	Length (m)	Length (ft)	Cu (%)	Au (g/t)
96-73	10090	9995	305	-75	222.5	218.5	221.6	3.0	10	**0.98**	0.29
						20.4	142.3	121.9	400	**0.29**	0.11
96-74	10150	9995		-90	289.6	281.3	284.4	3.0	10	**0.51**	0.51
						272.5	284.4	11.9	39	**0.45**	0.37
						205.4	288.6	83.2	273	**0.32**	0.23
96-75	10150	9995	124	-75	219.5	142.3	145.4	3.0	10	**0.64**	0.05
						26.5	111.8	85.3	280	**0.24**	0.14
96-76	10195	9970		-90	214.9	191.1	194.2	3.0	10	**0.33**	0.37
						182.0	197.2	15.2	50	**0.28**	0.23
96-77	10195	9970	264	-50	218.5	105.5	127.1	21.6	71	**0.21**	0.15
96-78	10195	9970	315	-50	250.5	127.1	142.3	15.2	50	**0.20**	0.05
96-79	10195	9970	45	-50	246.9	182.0	191.1	9.1	30	**0.38**	0.09
						139.3	191.1	51.8	170	**0.25**	0.08
96-80	10200	9900		-90	200.3						
96-81	10200	9900	324	-50	131.4						
96-82	10200	9900	132	-75	350.5	273.4	279.5	6.1	20	**0.55**	0.34
						273.4	285.6	12.2	40	**0.52**	0.30
						255.1	288.6	33.5	110	**0.36**	0.23
						133.2	288.6	155.4	510	**0.21**	0.15
96-83	10255	9895		-90	249.9	23.5	26.5	3.0	10	**0.30**	0.05
						242.9	246.0	3.1	10	**0.08**	3.10
96-84	10255	9895	314	-75	237.1						
96-85	10255	9895	234	-75	231.6	108.8	111.8	3.0	10	**0.64**	0.28
						60.0	63.1	3.1	10	**0.56**	0.52
						105.7	111.8	6.1	20	**0.42**	0.14
						96.6	133.1	36.5	120	**0.28**	0.16
96-86	10255	9895	132	-75	133.2						
96-87	10240	9950	223	-65	213.4	57.0	75.3	18.3	60	**0.41**	0.30
						35.7	78.3	42.6	140	**0.28**	0.19
						69.2	72.2	3.0	10	**0.46**	0.40
96-88	10248	9950	270	-60	290.5	203.3	206.3	3.0	10	**0.49**	0.26
						197.2	221.6	24.4	80	**0.30**	0.18

Summary of Diamond Drilling with Significant Intercepts
(October 1996 to October 1997)

Drill Hole	Coordinates West (m)	South (m)	Azimuth (deg.)	Dip Angle (deg.)	Hole Length (m)	Notable Intercepts Interval (m) From	To	Length (m)	(ft)	Cu (%)	Au (g/t)
96-89	10248	9950	150	-70	236.0	157.6	166.7	9.1	30	**0.45**	0.34
						160.6	163.7	3.1	10	**0.51**	0.58
						157.6	175.9	18.3	60	**0.35**	0.26
						157.6	188.1	30.5	100	**0.26**	0.21
97-90	10248	9950		-90	242.3	32.6	35.7	3.1	10.2	**0.73**	0.26
						32.6	38.7	6.1	20.0	**0.55**	0.18
						215.4	242.3	26.9	88.2	**0.31**	0.27
						181.9	242.3	60.4	198.1	**0.25**	0.22
						3.0	242.3	239.3	784.7	**0.20**	0.15
97-91	10248	9950	314	-60	235.9						
97-92	10255	9849		-90	304.8						
97-93	10255	9849	345	-75	285.6						
97-94	10255	9849	345	-50	293.5						
97-95	10255	9849	45	-60	266.1						
97-96	10255	9849	300	-75	297.8						
97-97	10255	9849	60	-60	240.5	87.2	90.5	3.3	10.8	**0.37**	0.28
97-98	10125	10015	90	-75	335.3	138.4	141.4	3.0	9.8	**0.74**	0.45
						127.1	144.4	17.3	56.7	**0.52**	0.19
						182.0	188.1	6.1	20.0	**0.41**	0.17
						96.6	144.4	47.8	156.7	**0.38**	0.12
						1.2	335.3	334.1	1095.5	**0.23**	0.09
97-99	10062	9871	104	-75	317.6	285.5	288.6	3.1	10.2	**0.55**	0.50
97-100	10035	9845	112	-60	291.7						
97-101	10035	9845	112	-75	302.7	139.3	148.4	9.1	29.8	**0.37**	0.10
97-102	10035	9845	180	-65	358.7	256.9	259.9	3.0	9.8	**4.60**	1.40
						249.0	261.2	12.2	40.0	**2.90**	0.63
						209.4	212.4	3.0	9.8	**1.34**	0.30
						181.9	185.0	3.1	10.2	**1.00**	0.26
						157.5	163.6	6.1	20.0	**0.96**	0.25
						145.3	148.4	3.1	10.2	**0.92**	0.10
						200.3	212.4	12.1	39.7	**0.95**	0.27
						145.3	270.4	125.1	410.2	**0.82**	0.23
						124.0	352.7	228.7	749.9	**0.57**	0.17
97-103	9997	9955	110	-60	235.2						

Summary of Diamond Drilling with Significant Intercepts
(October 1996 to October 1997)

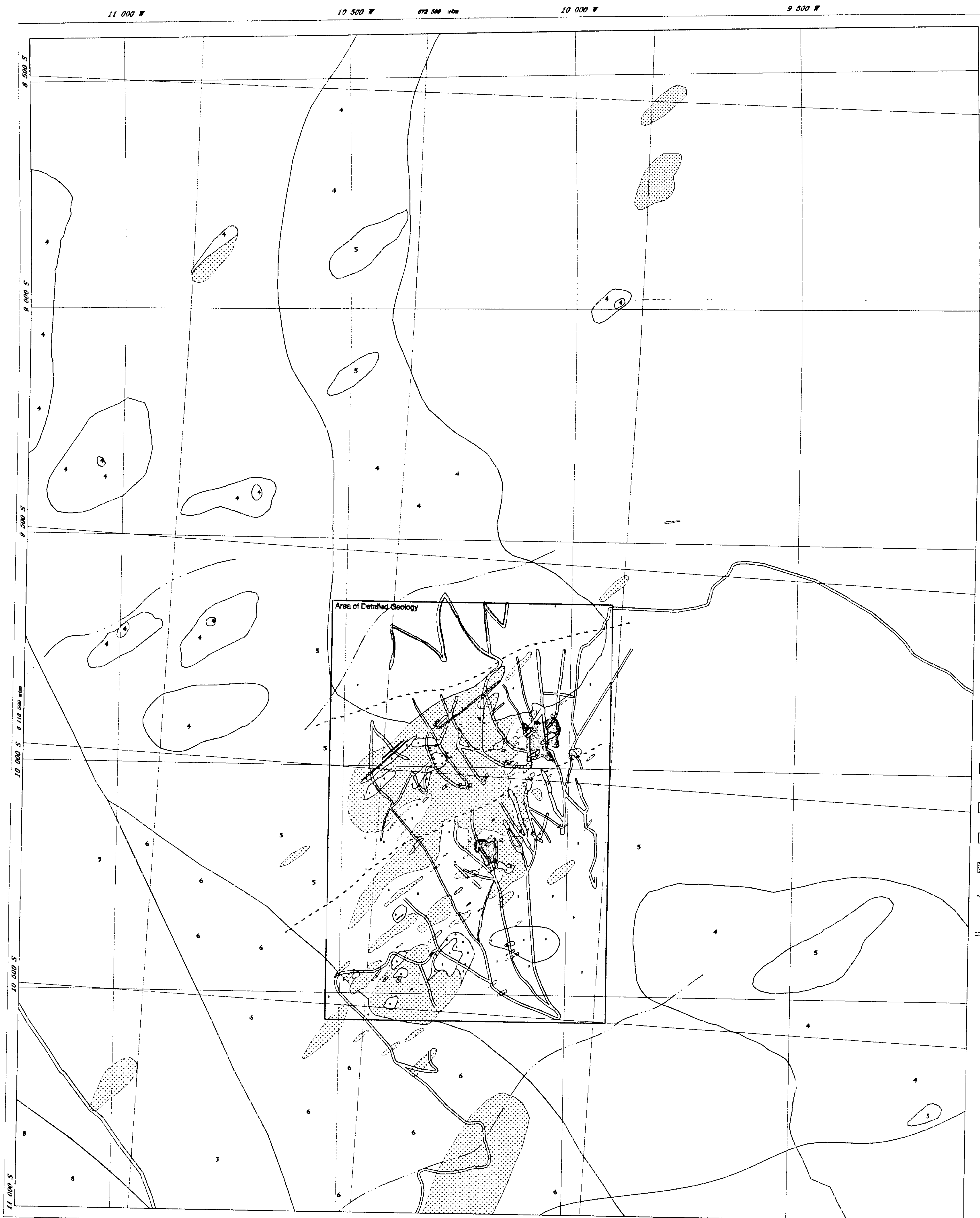
Drill Hole	Coordinates West (m)	South (m)	Azimuth (deg.)	Dip Angle (deg.)	Hole Length (m)	Notable Intercepts Interval (m) From	To	Length (m)	(ft)	Cu (%)	Au (g/t)
97-104	9576	9560	155	-60	205.4						
97-105	10085	10105	292	-70	384.7	84.0	86.6	2.6	8.5	**0.55**	0.15
						322.2	355.7	33.5	109.9	**0.39**	0.28
						340.5	343.5	3.0	9.8	**0.62**	0.44
97-106	10035	10072	300	-75	369.1	231.9	364.8	132.9	436.0	**0.33**	0.15
						231.9	255.1	23.2	76.0	**0.48**	0.22
						239.8	242.9	3.0	10.0	**0.92**	0.37
97-107	10139	10124	300	-75	319.1	105.7	124.0	18.3	60.0	**0.30**	0.17
						226.8	236.2	9.4	30.0	**0.38**	0.25
97-108	10119	9930		-90	319.1	72.0	319.1	247.1	810.2	**0.23**	0.13
						102.7	105.8	3.1	10.2	**0.53**	1.38
97-109	10120	9930	100	-75	227.6	108.8	124.0	15.2	49.8	**0.41**	0.25
						157.5	227.6	70.1	229.9	**0.35**	0.16
97-110	10120	9933	236	-75	264.2	3.5	29.5	26.0	85.3	**0.25**	0.05
						44.8	203.3	158.5	519.7	**0.22**	0.09
97-111	10220	10000	225	-75	263.6	117.9	124.0	6.1	20.0	**0.38**	0.50
						221.5	266.7	45.2	148.0	**0.24**	0.36
						242.9	245.9	3.0	10.0	**0.50**	1.91
97-112	10220	10000	128	-75	255.1	127.1	244.1	117.0	384.0	**0.40**	0.32
						139.2	175.8	36.6	120.0	**0.67**	0.51
						145.3	157.5	12.2	40.0	**0.88**	0.79
						151.4	157.5	6.1	20.0	**1.00**	0.91
97-113	10275	10026	220	-70	285.5	6.2	117.9	111.7	366.3	**0.18**	0.11
						139.3	151.4	12.1	39.7	**0.27**	0.20
97-114	10350	10020	135	-70	275.0	47.8	60.0	12.2	40.0	**0.31**	0.20
						72.2	148.3	76.1	249.5	**0.21**	0.10
97-115	10410	10140	135	-70	249.0	145.3	178.9	33.6	110.2	**0.30**	0.12
97-116	10194	10036		-90	288.6	5.7	200.2	194.5	638.1	**0.22**	0.12
						142.3	172.8	30.5	100.0	**0.37**	0.15
97-117	10194	10036	35	-60	273.4	145.3	273.4	128.1	420.0	**0.20**	0.11
97-118	10098	10210	290	-65	246.2	121.3	145.6	24.3	80.0	**0.32**	0.23
						127.4	130.4	3.0	10.0	**0.79**	1.38
97-119	10098	10210	105	-50	282.2						

Summary of Diamond Drilling with Significant Intercepts
(October 1996 to October 1997)

Drill Hole	Coordinates West (m)	South (m)	Azimuth (deg.)	Dip Angle (deg.)	Hole Length (m)	Notable Intercepts Interval (m) From	To	Length (m)	(ft)	Cu (%)	Au (g/t)
97-120	10088	10232	292	-65	249.3	96.9	185.3	88.4	290.0	**0.22**	0.06
97-121	10340	10180	110	-50	310.2	90.8	310.2	219.4	720.0	**0.19**	0.06
97-122	10250	10300	110	-50	240.1	48.1	63.3	15.2	48.9	**0.23**	0.09
97-123	10175	10195	-	-90	228.2	5.8	72.8	67.0	220.0	**1.08**	0.25
						54.6	57.6	3.0	10.0	**4.94**	1.15
						54.6	57.6	3.0	10.0	**(.117%Mo)**	
97-124	10175	10195	200	-65	288.3	1.8	44.5	42.7	140.0	**1.07**	0.24
						29.2	32.3	3.1	10.0	**1.14**	1.48
						35.3	38.4	3.1	10.0	**2.48**	0.88
97-125	10168	10213	290	-65	93.2	14.0	50.5	36.4	120.0	**2.50**	0.41
						17.0	20.1	3.0	10.0	**2.78**	1.20
						26.2	29.2	3.0	10.0	**3.51**	0.38
97-126	10168	10213	25	-45	120.3	13.7	53.3	39.6	129.8	**0.46**	0.10
97-127	10191	10186	110	-75	87.4	2.1	20.4	18.3	60.0	**1.00**	0.10
97-128	10253	10244	290	-60	220.9						
97-129	10179	10206	110	-70	282.5	5.2	78.3	73.1	240.0	**1.65**	0.46
						11.2	60.1	48.9	456.0	**2.10**	0.63
						41.7	50.9	9.2	30.0	**3.73**	2.23
97-130	10169	10212	110	-75	142.3	8.3	17.3	9.0	29.5	**3.23**	1.31
						8.3	11.2	2.9	9.5	**6.88**	1.49
						8.3	9.3	1.0	3.3	**17.75**	4.11
						8.3	72.2	63.9	209.6	**1.70**	0.80
						8.3	38.7	30.4	99.7	**2.70**	1.28
						23.4	38.7	15.3	50.2	**3.39**	1.76
						23.4	26.5	3.1	10.2	**7.29**	3.36
97-131	10164	10226	110	-75	132.5						
97-132	10187	10184	110	-70	175.8	44.8	72.2	27.4	89.9	**3.29**	0.38
						53.9	72.2	18.3	60.0	**4.08**	0.56
						57.0	72.2	15.2	49.9	**4.23**	0.65
						44.8	105.8	61.0	200.1	**1.70**	0.22
						72.2	105.7	33.5	109.9	**0.40**	0.08
97-133	10190	10158	110	-65	142.3	63.0	81.3	18.3	60.0	**0.51**	0.15
97-134	10196	10146	110	-50	132.6	1.5	74.6	73.1	239.8	**0.24**	

Summary of Diamond Drilling with Significant Intercepts
(October 1996 to October 1997)

Drill Hole	Coordinates West (m)	South (m)	Azimuth (deg.)	Dip Angle (deg.)	Hole Length (m)	Notable Intercepts Interval (m) From	To	Length (m)	(ft)	Cu (%)	Au (g/t)
97-135	10177	10198	290	-70	75.5	2.4	17.6	15.2	49.9	**1.10**	0.20
						2.4	54.2	51.8	169.9	**0.68**	0.08
97-136	10137	10300	290	-63	93.8						
97-137	10173	10201	110	-50	86.2						
97-138	10191	10158	55	-75	52.9	8.5	52.9	44.4	145.6	**2.15**	0.32
						8.5	10.5	2.0	6.6	**9.49**	1.47
						51.2	52.9	1.7	5.6	**1.16**	0.24
97-139	10169	10212	20	-70	103.0	11.5	75.6	64.1	210.2	**2.74**	0.95
97-140	10169	10212	155	-75	133.1	8.2	56.9	48.7	159.7	**1.79**	1.20
						26.5	41.7	15.2	49.9	**3.00**	3.14
						38.7	41.7	3.0	9.8	**2.58**	11.14
97-141	10082	10112	142	-60	115.0						
				Total meterage	15957.2						



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,287

LEGEND: pt. 1 of 5

1	EBbx (1)	Eocene Babine chalcopyrite cemented breccia - hydrothermal collapse breccia containing clasts of BFP and andesite cemented principally by chalcopyrite and carbonate.
2	EBbx(2)	Eocene Babine pyrite cemented breccia - hydrothermal collapse breccia containing clasts of BFP and andesite, cemented principally by pyrite and carbonate.
3	EBFP	Eocene Babine Intrusions - principally biotite feldspar porphyry ± hornblende ± quartz. Locally contains Cu - Au mineralization.
4	KTg	Cretaceous - Tertiary diorite granodiorite, quartz diorite.
5	lmJvb	Hazleton Group Lower to Middle Jurassic volcanics - andesite and basaltic flows, tuff.
6	lmJvbs	Hazelton Group Lower to Middle Jurassic sediments intermixed with volcanics - siltstone, limestone, volcanogenic sediments.
7	muJA	Middle to Upper Jurassic Ashman Formation - fossiliferous argillaceous siltstone, siltstone, wacke.
8	lKS	Lower Cretaceous Skeena Group - sandstone, shale and siltstone.
9		Mafic Dykes, Age Uncertain - chloritic, porphyritic diabase.
		Fault
		Outcrops
		Road

NOTES:

* Interpreted Geology Based On Drill Hole, Trench and Outcrop Information

SCALE 1 : 5000

0 100 200

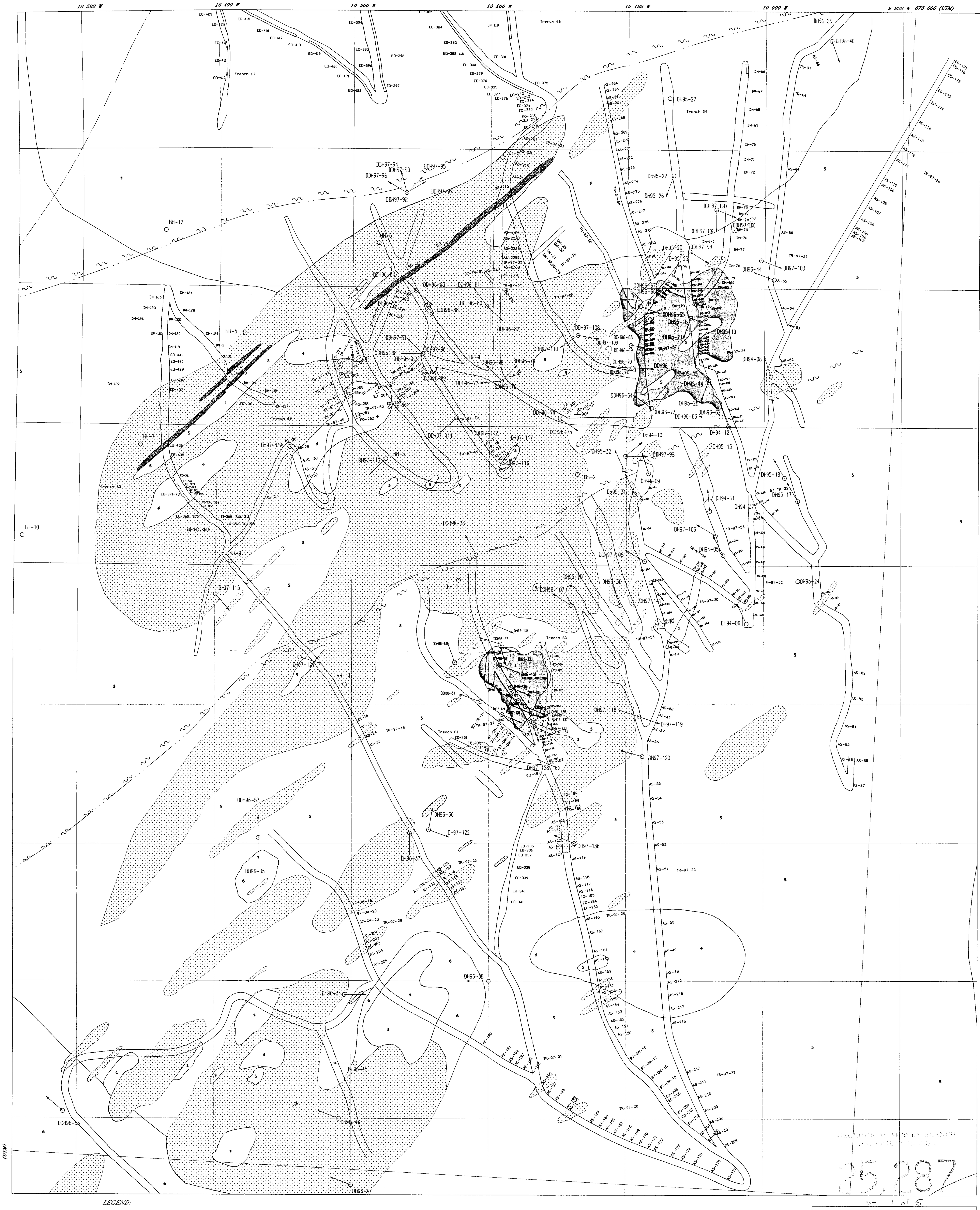
BOOKER GOLD EXPLORATIONS

GEOLOGY MAP

HEARNE HILL , B.C.

Nov 1997	1 : 5000
97340	G. Weary/E. O'Brien/A. Shaw

(1)



LEGEND:

1	EBbx (1)	Eocene Babine chalcopyrite cemented breccia – hydrothermal collapse breccia containing clasts of BFP and andesite cemented principally by chalcopyrite and carbonate.
2	EBbx(2)	Eocene Babine pyrite cemented breccia – hydrothermal collapse breccia containing clasts of BFP and andesite, cemented principally by pyrite and carbonate.
3	EBFP	Eocene Babine Intrusions – principally biotite feldspar porphyry ± hornblende ± quartz. Locally contains Cu – Au mineralization.
4	KTg	Cretaceous – Tertiary diorite granodiorite, quartz diorite.
5	lmJvb	Hazleton Group Lower to Middle Jurassic volcanics – andesite and basaltic flows, tuff.
6	lmJvbs	Hazleton Group Lower to Middle Jurassic sediments intermixed with volcanics – siltstone, limestone, volcanogenic sediments.
7		Mafic Dykes, Age Uncertain – chloritic, porphyritic diabase.
~~		Fault
══		Road
TR-97-29, ED-341		Trench No. , Sample number on trenches
DH96-45		Drill Hole No. and Direction

True North
UTM Grid North
2°15'

SCALE 1 : 1000

0 20 40 60 80 100m

25,287

pt 1 of 5

BOOKER GOLD EXPLORATIONS

DRAWING TITLE:

GEOLOGY MAP

LOCATION:

HEARNE HILL , B.C.

DATE:	Dec 1997	SCALE:	1 : 1000
DRAWN:	97340.dwg	GEOLOGIST:	G. Weary / E. O'Brien / A. Shaw
DATA:		DRAWING #:	

(2)

L-11600 W
L-11400 W
L-11200 W
L-11000 W
L-10900 W
L-10800 W
L-10700 W
L-10600 W
L-10500 W
L-10400 W
L-10300 W
L-10200 W
L-10100 W
L-10000 W
L-9900 W
L-9800 W
L-9700 W
L-9600 W
L-9500 W
8600 S
8700 S
8800 S
8900 S
9000 S
9100 S
9200 S
9300 S
9400 S
9500 S
9600 S
9700 S
9800 S
9900 S
10000 S
10100 S
10200 S
10300 S
10400 S
10500 S
ORIGINAL GRID by
SCOTT GEOPHYSICS LTD.
LEGEND
GEOTRONICS SURVEYS LTD.
INSTRUMENTATION
Receiver: BRGM IP-6
Transmitter/Generator: PHOENIX Model IPT-1
IP SURVEY PARAMETERS
Survey Mode: Time Domain
Array: Dipole-Dipole
Dipole Length: 30 metres (100 feet)
Dipole seperation: n=1 to 6
Delay Time: 240 milliseconds
Integration Time: 1600 milliseconds
Charge Cycle: 8 second square wave
SURVEY DATES: February 1996 to July 1997
SCOTT GEOPHYSICS LTD.
IP SURVEY PARAMETERS
Array: Pole-Dipole
Dipole Length: 25 metres
Dipole seperation: n=1 to 7
SURVEY DATE: Fall 1995
General
Contour Intervals:
Resistivity : log base 10 ohm-metres
Chargeability: 10 milliseconds
OVERLAPPING
The 'Scott' area with the posted station numbers was overlaped by Geotronics. Geotronics also overlapped older lines when doing line extensions to give full depth coverage. In the overlapping areas the contouring was averaged.
50m dipole
The southern end of lines 11000S, 10900S, 10800S, and 10600S were surveryed with 50 metre dipole length; these lines have been included but NOT CONTOURED.
GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT
25,287
pt. 1 of 5
GEOTRONICS SURVEYS LTD.
BOOKER GOLD EXPLORATIONS LTD
HEARNE HILL PROPERTY
Babine Lake Area
Omineca Mining Division, B.C.
APPARENT CHARGEABILITY (IP)
SURVEY PLAN - LEVEL ONE
Drawn by: RTM
Job No. 96/6
NTS 93M/1
Date Sept 97
Map No. GP-34
③
GEOTRONICS SURVEYS LTD.
VANCOUVER B.C.
Scale 1:5000
50 0 50 100 150 200 250
(metres)
Scale 1:5000
250 0 250 500 750 1000
(feet)

LEGEND

GEOTRONICS SURVEYS LTD.

INSTRUMENTATION

Receiver: BRGM IP-6
Transmitter/Generator: PHOENIX Model IPT-1

IP SURVEY PARAMETERS

Survey Mode: Time Domain
Array: Dipole-Dipole
Dipole Length: 30 metres (100 feet)
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Dipole seperation: n=1 to 7

SURVEY DATE: Fall 1995

General

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GEOTRONICS SURVEYS LTD.

BOOKER GOLD EXPLORATIONS LTD

HEARNE HILL PROPERTY

Babine Lake Area
Omineca Mining Division, B.C.

APPARENT RESISTIVITY SURVEY PLAN - LEVEL ONE

Drawn by:	Job No.	NTS	Date	Map No.
RTM	96/5	93M/1	Sept 97	GP-35

(4)