LOG NO: March 19/91 RD.
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Lat.: 55 56'
Long.: 129 55'

GEOLOGICAL AND GEOCHEMICAL REPORT ON THE MA 1, GEE 1,2 CLAIM GROUP, STEWART,B.C.

Skeena Mining Division

for

White Channel Resources Incorporated
201-744 West Hastings St.,
Vancouver, B.C. V6C 1A5

by

Andris Kikauka, B.Sc., F.G.A.C.

Jan. 31, 1991

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,101

ITEMIZED COST STATEMENT-White Channel Res.Inc.

Ma 1, Gee 1,2 Claim Group- Sept. 5-6, 1990

FIELD CREW:

Geologist- A.Kikauka, Sept. 5-6, 2 X 350	$	700.00
Geotechnician- I.Rose, Sept. 5-6, 2 X 125		250.00
Mob/Demob		200.00

FIELD COSTS:

Food/Lodging/Fuel/Equipment- @60/day X 4	240.00

SERVICES:

Helicopter charters (V.I.H. Stewart) 1.2 hrs.	930.00
Geochemical analysis (Eco-Tech,Stewart)	
28 soil X 13	364.00
2 silt X 13	26.00
4 rock X 17	68.00
Report	500.00
Total=	3,278.00

SUMMARY

The Ma 1, Gee 1,2 Claim Group consists of 3 contiguous mineral claims consisting of 42 units. The claims are located 4 km. east of Stewart,B.C., immediately east and north of the presently inactive Porter-Idaho Mine.

The claims are underlain by Lower Jurassic volcanic breccia, dacitic crystal and lithic tuffs, andesitic flows (in part porphyritic), with minor sandstone, siltstone, and conglomerate. This sequence is unconformably overlain by Middle Jurassic siltstone, greywacke, and conglomerate.

A network of shear zones spaced 20-50 m. apart occurs on the ridge of the Ma 1 claim. These shear zones are closely related to quartz-sulphide mineralization (with assay values up to 1.31% Cu and 19.7 g/t Ag) and soil sample highlights (with geochemical values up to; 1625 ppm Zn, 295 ppm Pb, 705 ppm Cu, 7.0 ppm Ag, and 75 ppb Au). The dacitic volcanic host rock with frequent mineralized shear zones closely resembles the geological setting of the Porter-Idaho Mine located 1.0-1.7 km. south of the Ma 1 claim.

A 200 X 300 m. gossan zone, located on the Gee 2 claim, contains pyrite, sphalerite, specular hematite, chlorite, and epidote mineralization. This zone returned significant values from soil samples (up to; 744 ppm Zn, 387 ppm Pb, 3.8 ppm Ag, and 277 ppm As) and an assay of a trenched rock chip sample returned 10.1 g/t Ag and 0.13% Zn across 1.0 m.

Similar gossans and networks of shear zones as described above, occur on the north side of Mt.Magee, however this area was not mapped or sampled.

The Ma 1,Gee 1,2 Claim Group contains several prospects that require follow up work. A second phase of exploration is recommended which would include geological mapping, geochemistry, geophysics, and trenching. Contingent on the results of phase 2, a third stage of exploration, which includes diamond drilling, is recommended.

TABLE OF CONTENTS

	page no.
Summary	
1.0 Introduction	1
2.0 Location, Access, Topography	1
3.0 Property Status	1
4.0 Area History	1
5.0 Property History	2
6.0 General Geology	3
6.1 Mt.Rainey Area Geology	3
7.0 1990 Field Program	4
8.0 Results	4
8.1 Geology and Mineralization	4
8.2 Geochemistry	5
9.0 Conclusion	5
10.0 Recommendations	6
11.0 Proposed budget	7
References	8
Statement of Qualifications	9

LIST OF FIGURES AND APPENDICES

Fig.1 General Location Map

Fig.2 Claim Location Map

Fig.3 General Geology Map

Fig.4 Claim Geology

Fig.5 Geochemical Values Cu (ppm)

Fig.6 Geochemical Values Pb (ppm)

Fig.7 Geochemical Values Zn (ppm)

Fig.8 Geochemical Values Ag (ppm)

Fig.9 Geochemical Values Au (ppb)

Fig.10 Grid Location

Appendix A Sample Record- Trenched Rock Chips

Appendix B Assay and Geochemical Analysis Certificates

Appendix C Geochemical Laboratory Methods

1.0 INTRODUCTION

This report summarizes field work performed on the Ma 1,Gee 1,2 Claim Group carried out on Sept. 5-6,1990. The author, Mr. Andris Kikauka, planned and supervised the field work and was present on the subject claims from Sept. 5-6, 1990.

2.0 LOCATION, ACCESS, TOPOGRAPHY

The Ma 1, Gee 1,2 Claim Group is located 4 km. east-southeast of Stewart,B.C. The property covers an area between the Kate Ryan and Barney Glaciers, immediately east of the Prosperity-Porter Idaho Mine.

Elevations on the property range from 1,000-2,000 m. Slopes are moderate to steep on the south facing slope of Mt.Magee. The north facing slopes of Mt.Magee are steep and become moderate as the Barney Glacier is reached. The inactive Prosperity-Porter Idaho Mine (600 m. from the Gee 2 claim) is accessible by a rough trail that switchbacks up from the toe of the Kate Ryan Glacier. This trail connects to a road which follows the Marmot R. to the Portland Canal.

3.0 PROPERTY STATUS

The Ma 1, Gee 1,2 Claim Group consists of three contiguous staked mineral claims in the Skeena Mining Division. The claims are owned by White Channel Resources Inc.(Fig. 2).

Claim Name	# of units	Record #	Record Date	Expiry Date
Ma 1	12	7467	March 15, 89	March 15, 92
Gee 1	15	7468	March 15, 89	March 15, 92
Gee 2	15	7469	March 15, 89	March 15, 92

The total area of the claim group allowing for overlap is approximately 900 hectares.

4.0 AREA HISTORY

The Stewart area has had a prolific history in mining activity. The nearby Prosperity-Porter Idaho Mine historically produced 2,360,423 ounces of silver (and 870 ounces of gold, 3,052,423 lbs. of lead, 20,015 lbs. of zinc, and 60,153 lbs. of copper) from a mere 30,080 tons of ore. The grade of this ore was approximately 7 times richer than the Dolly-Varden Silver deposit located several kilometres south of the Prosperity-Porter Idaho. This vein-replacement deposit is listing an ore reserve of 725,000 tons @ 18.17 oz/t silver.

The Silbak-Premier (located 10 km. northwest of the Ma 1,Gee 1,2

claims) historically produced 1,804,218 ounces gold, 40,863,280 ounces silver, 54,628,047 lbs. lead, 17,486,730 lbs. zinc, and 4,083,635 lbs. copper from 4,670,170 tons milled. This deposit lists ore reserves of 3,896,000 tons @ .071 oz/t gold and 3.22 oz/t silver. Westmin Resources is presently surface mining the Silbak-Premier.

Other deposits in the Stewart Mining District include Granduc (Cu,Ag,Au), Big Missourri (Cu,Pb,Zn,Ag,Au), Scottie (Au,Ag), Dunwell (Cu,Pb,Zn,Ag,Au), Tenajon S-B (Pb,Zn,Ag,Au). Together, these deposits have established the Stewart area as a major mining centre.

Current interest in the Stewart area has been intensified by the discovery of a major mineral deposit near Eskay Ck.(approx. 80 km. north-northwest of Stewart). This deposit may eclipse the Silbak-Premier in total gold-silver production because of the high grade, well defined contact control assay boundary, outstanding predictability of geology and tenor, and excellent potential ore reserves. The development of the Eskay Ck. deposit has stimulated exploration and re-examination of other prospects in the "Stewart Complex".

The current resurgence of exploration immediately east of Stewart has resulted in the identification of several new mineral zones that include; Bond Gold-Lac Minerals Red Mountain (Bitter Ck.), Kingdom Resources Dunwell extension zone(Bitter Ck.), Black Hills Glacier (Glacier Ck.), Goodgold Resources Del Norte Ck.(Meziadin Lk.), Bond Gold-Lac Minerals Willoughby Ck. (Meziadin Lk.), Homestake (Kitsault Glacier). The diversity, range, extent, and frequency of mineral occurrences in the Stewart Mining District is reflected in the numerous mines, prospects, and activity of mining exploration within the camp.

5.0 PROPERTY HISTORY

The Ma 1,Gee 1,2 Claim Group has been periodically explored for minerals because of the close proximity to the Prosperity Porter-Idaho Mine and the presence of vein-replacement mineralization on the claims.

In 1980, Western Hemisphere Mining Corp. identified numerous quartz veins with malachite stain on the north-south trending ridge immediately west of Barney Glacier. These veins range in width from 0.2-1.1 m. and generally have a 080-120 azimuth. Trenched samples of the quartz veins gave significant copper, silver, and gold values.

In 1989, White Channel Resources Inc. identified a large scale zone of hydrated iron oxides (gossan) located 750 m. south of Mt. Magee. Closer examination of this area indicated widespread development of pyrite, chlorite, quartz, sericite, and minor epidote. This zone is approximately 300 X 200 m. and is hosted by

bleached and indurated porphyritic andesite flows of the Lower Jurassic Unuk R.Fm.

6.0 GENERAL GEOLOGY

The Stewart Complex includes a thick sequence of mainly late Triassic to late Middle Jurassic volcanic, sedimentary, and metamorphic rocks. These have been intruded and cut by a mainly syenitic to granitic suite of Lower Jurassic through Tertiary plutons which together form part of the Coast Range Plutonic Complex. Deformation, in part related to intrusive activity has produced complex fold structures along main intrusive contacts with simple open folds and warps dominant along the east margin of the complex. Cataclasis marked by strong north-south structures are prominent structural features that cut all pre-Jurassic units.

Country rocks in the general Stewart area comprise mainly Hazleton Group strata which includes the Lower Jurassic Unuk R.Fm., the Middle Jurassic Betty Ck.and Salmon R.Fm., and the Upper Jurassic Nass R.Fm. (Grove, 1971,1986). In the general Stewart area, the Unuk R. strata includes mainly fragmental andesitic volcanics, epiclastic volcanics, and minor volcanic flows. Widespread Aalenian uplift and erosion was followed by the deposition of the partly marine volcaniclastic Betty Ck.Fm., the mixed Salmon R.Fm., and the dominantly shallow marine Nass R.Fm.

Intrusive activity in the Stewart area has been marked by Lower to Middle Jurassic Texas Ck. granodiorite with which the Silbak-Premier, Big Missourri, and numerous other mineral deposits are associated. Younger intrusions include the extensive Hyder Quartz Monzonite and the many Tertiary dyke swarms which form a large part of the Coast Range Plutonic Complex. Mineral deposits such as the B.C.Moly Mine at Alice Arm and a host of other small deposits are localized in or related to these 48-52 m.y. plutons which include dykes forming part of the regionally extensive Portland Canal Dyke Swarm (Grove,1986).

6.1 MT. RAINEY AREA GEOLOGY

The south slope of Mt. Rainey and Mt. Magee is underlain by Lower Jurassic Unuk R.Fm. andesitic-dacitic tuffs, flows, and intercalated thinly laminated siltstones and greywackes. This sequence is unconformably overlain to the east by contorted siltsones and greywacke of the Middle Jurassic Salmon R.Fm. Along the margin of Kate Ryan Ck. area, the country rocks have been mechanically deformed, creating a sericitic phyllonite zone at the contact, grading into a mixed chloritic and graphitic zone within the volcanic rocks. In the general area of the Prosperity-Porter Idaho Mine, the country rocks form a steep southerly limb of a truncated syncline which plunges northeast towards the Barney Glacier (Grove,1971). Regular widely spaced west-northwest and northeast trending fractures splay out in the volcanic rocks

forming Mt.Rainey. The high-grade ore of the Prosperity-Porter Idaho Mine is fracture and fault controlled with erratic distribution. The veins are narrow, sinuous quartz fissure veins in shear and breccia zones, a few inches to several feet wide. The primary vein minerals recognized are quartz-galena-sphalerite-tetrahedrite(freibergite)-polybasite-native silver. In general the main ore shoots trend north to northeast and plunge northerly 40-50 degrees.

7.0 1990 FIELD PROGRAM

From Sept.5-6, 1990 a geologist and geotechnician carried out geological mapping, soil and stream sediment sampling. The purpose of this program was to cover the claim group with comprehensive geological and geochemical surveys in order to evaluate mineral deposits and systematically sample mineralization.

Utilizing a hip chain and compass, a 1:10,000 scale geological map of the claim group was plotted. Stream sediment and soil samples were collected in tear-resistant paper bags and dried. A total of 28 soil, 2 stream sediment and 4 rock chip samples were taken. Soil samples were collected from a depth of 30 cm. Soil is poorly developed on the scree slopes above treeline where all the sampling was performed. Stream sediments were collected from the active channel of 0.1-0.2 m. wide creeks, and strained through a -20 mesh screen to remove coarse material. Rock samples were chip channeled across the true width of mineralized zones using a pick and shovel. Rock samples consisted of acorn-size chips totaling 2 kilograms.

8.0 RESULTS

8.1 GEOLOGY AND MINERALIZATION

The sequence of rocks identified on the Ma 1, Gee 1,2 Claim Group consists of Lower Jurassic, Unuk R.Fm. volcanic breccia, crystal and lithic tuffs (andesitic-dacitic composition), andesitic flows with porphyritic phases, and minor epiclastics (conglomerate,sandstone,siltstone). The major difference between the general overall composition of the Unuk R.Fm. in comparison with its exposure in the Mt.Magee area is the relative lack of epiclastics and abundance of pyroclastics in the vicinity of Mt.Magee. The Unuk R.Fm. is unconformably overlain by Middle Jurassic, Salmon R.Fm. siltstone, greywacke, and conglomerate which outcrops east of Mt.Magee. This dominantly marine sequence is warped and contorted forming large scale open folds with amplitudes in the order of 0.5 km. These folds were observed from the base of the Barney Glacier looking south towards Mt.Magee.

In the higher elevations along the ridge tops, the dacitic tuffs and volcanic breccias contain abundant shear structures

consisting of varying amounts and sizes of intensely sheared wallrock fragments and blocks set in a gouge or clay matrix. Mineralized zones pinch and swell within the shear zones. The principal sulphides observed on the claim were pyrite, sphalerite, and chalcopyrite occuring in quartz-carbonate gangue minerals and spatially related to shear zones. One sample (88001) taken across a 0.6 m. wide quartz vein contained 1.31% Cu and 19.7 g/t Ag. Due to the oxidized nature of most of the observed mineral exposures, a deep trench across the zones is recommended. When observed on surface, the trace of the main veins of the Porter-Idaho deposit show very little quartz-sulphide vein matter. This suggests that the oreshoots pinch and swell along a network of fractures, faults, and breccia zones. On the Ma 1 Claim there is a network of shear zones that trend northeast and northwest. A series of lenticular, northwest trending quartz veins with sparse sulphides occur in fractured dacitic tuffs. The sulphides consist of pyrite and chalcopyrite. Within the shear zones, wallrock fragments set in a gouge or clay matrix contain chlorite and specular hematite. Lower in elevation (1100-1300 m.) and 0.5 km. south of Mt.Magee, a 200 X 300 m. zone of hydrated iron forms a gossan. This zone is hosted by massive porphyritic andesite flows. Mineralization noted in this zone includes pyrite, chlorite, epidote, specular hematite, and sphalerite. A trench within this zone, across a width of 1.0 m.,returned an assay of 0.13% Zn, and 10.1 g/t Ag (#88004).

8.2 GEOCHEMISTRY

A total of 19 soil samples were taken from the Ma 1 claim along the north-south trending ridge top (elevation 1800 m.) located 1.0-1.7 km. north of the Porter-Idaho Mine. Relatively high values of Ag (up to 7.0 ppm), Pb (up to 295 ppm), Zn (up to 1625 ppm) showed a correlation. Significant, but erratic values of Cu (up to 705 ppm), As (up to 497 ppm), and Au (up to 70 ppb) indicate there is potential for Ag-Pb-Zn-Cu-Au vein/replacement mineralization.

9 soil and 2 stream sediment samples were taken across the gossan zone on the Gee 2 claim (located 0.5 km. south of Mt.Magee). Relatively high values of Zn (up to 744 ppm), Pb (up to 387 ppm), Ag (up to 3.8 ppm), and As (up to 277 ppm) were obtained from this zone.

9.0 CONCLUSION

The Ma 1, Gee 1,2 Claim Group has potential to host an economic deposit of Ag-Pb-Zn-Cu-Au based on the following reasons;

1) Geological mapping of the claims indicates there are numerous mineralized shear zones within a sequence of andesitic-dacitic volcanics, similar to the nearby Porter-Idaho Mine.

2) A 200 X 300 m. gossan, with geochemically significant

Ag-Pb-Zn-As values may host corresponding sulphide bearing minerals.

3) A thick sequence of felsic volcanics occur north of Mt.Magee. This area was observed to host numerous mineral zones.

4) The claim group is accessible from Stewart via Barney Gulch.

10.0 RECOMMENDATIONS

A second phase of mineral exploration is recommended to provide detailed follow up of the known mineral trends and to cover unmapped areas. The following program is recommended;

1) Detailed geological mapping in the area of known showings and reconnaissance mapping in other areas of the claim group.

2) Detailed soil and stream sediment sampling in the area of known mineralization and reconnaissance sampling in other areas of the claim.

3) Geophysical surveys (magnetics and conductivity) to cover areas of mineralization.

4) Trenching in areas of mineralization and/or geophysical and geochemical anomalies.

Contingent on the results of phase 2, a third phase of exploration, which includes diamond drilling, is recommended.

11.0 PROPOSED BUDGET

PHASE 2

Geologist and 3 geotechnicians (10 days)	$ 6,500
Geophysical survey (20 km.)	4,000
Assays	2,000
Trenching	2,000
Camp costs	3,000
Helicopter support	2,000
Report	500
Phase 2 total	20,000

PHASE 3

Diamond drilling (1000 m.)	$100,000

Respectfully submitted;

Andris Kikauka

Andris Kikauka, B.Sc.,F.G.A.C.

REFERENCES:

Alldrick, D.J., 1987, Stratigraphy and Petrology of the Stewart Mining Camp. Min. of E.M.&P. Res. Report of Geological Fieldwork.

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Grove, E.W., 1971, Geology and Mineral Deposits of the Stewart Area, B.C.D.M. Bulletin 58.

Grove, E.W., 1986, Geology and Mineral Deposits of the Unuk R., Salmon R., Anyox Area. Min. of E.M.&P. Res., Bulletin 63.

Brownlee, D.J. et.al., 1980, Geological and Geochemical Report on the Magee Property, BCMEMPR Assessment report # 8403.

Alldrick,D.J.,et al.,1984, Geological Fieldwork, The Prosperity Porter-Idaho Silver Deposits, pg. 165-172.

STATEMENT OF QUALIFICATIONS

I, Andris Kikauka, do hereby declare that;

- I graduated from Brock University, Faculty of Geological Sciences, St. Catharines, Ontario, 1979, receiving Honours B.Sc., First Class.

- From 1976-79 have performed geological fieldwork for uranium on the Canadian Shield.

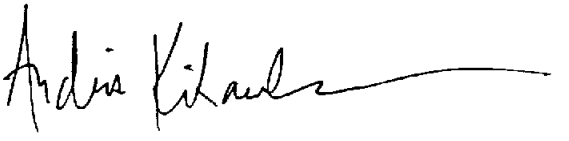
- From 1979-90 have performed geological fieldwork for precious metal and base metal on the cordillera of Western Canada.

- I am a fellow in good standing with the Geological Association of Canada.

- Personally participated in the field work of this report, reviewed and assessed the data.

- I am a director of White Channel Resources Inc.

Respectfully submitted;



Andris Kikauka,B.Sc.,F.G.A.C.

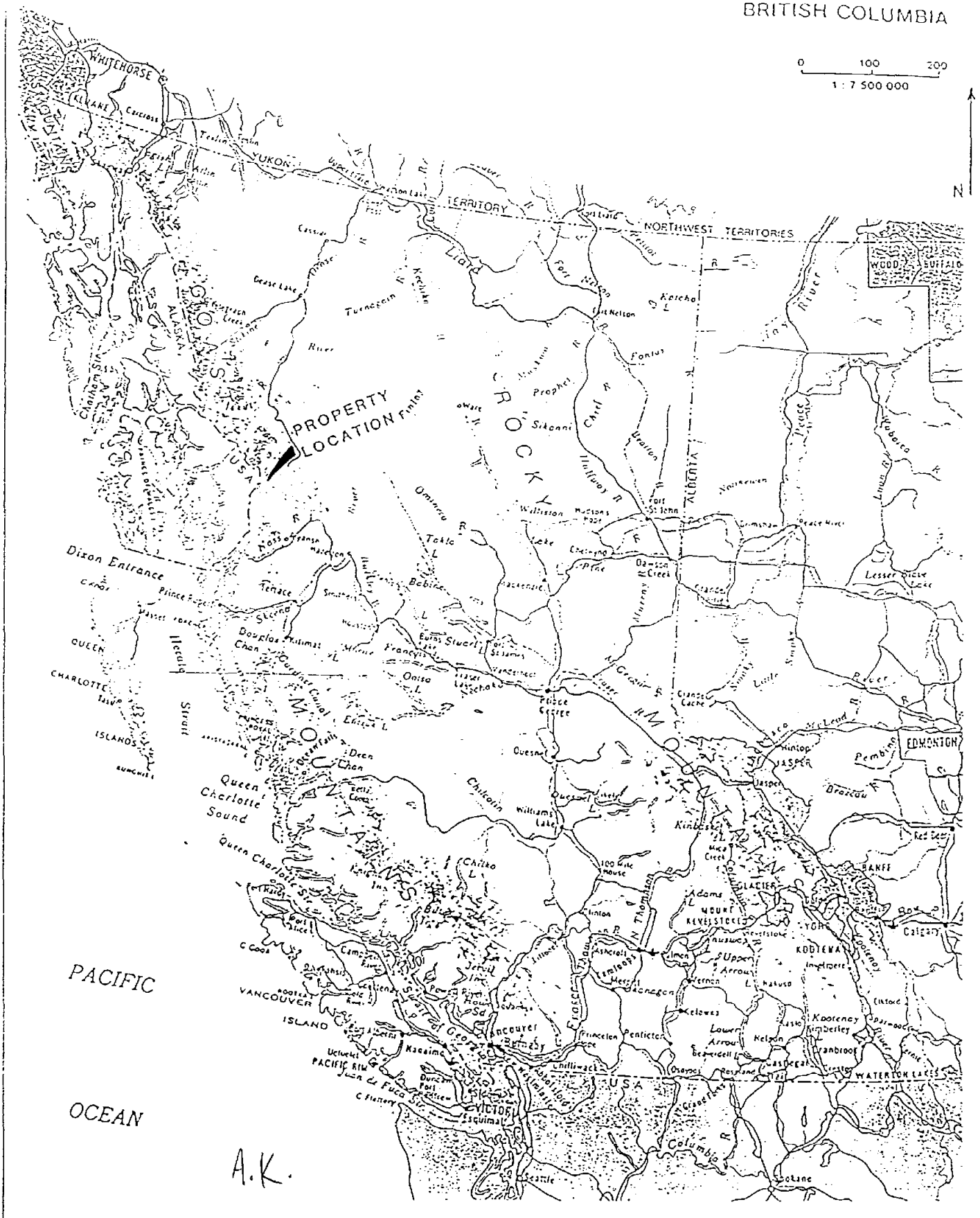
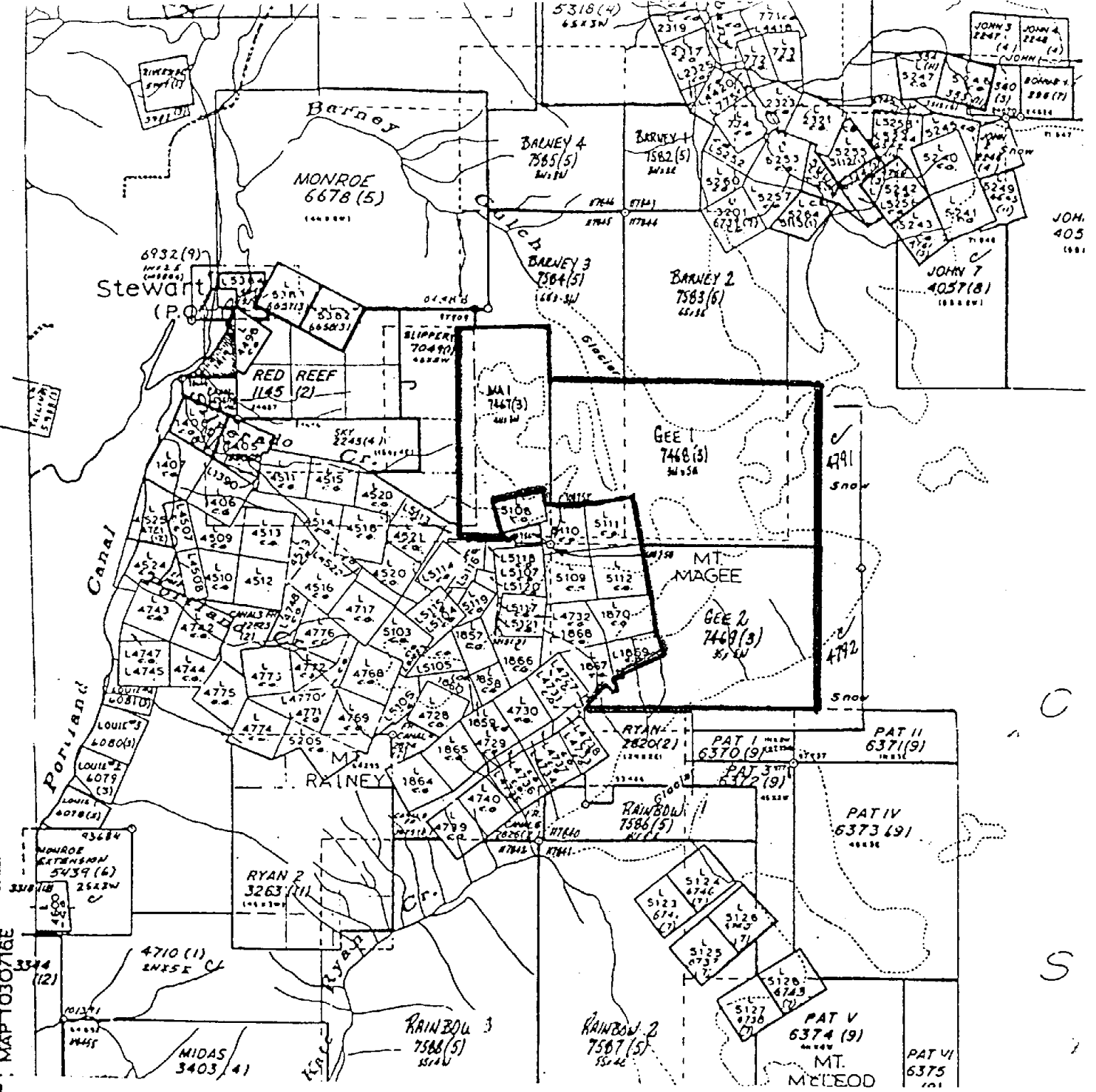


FIGURE 1

LOCATION MAP



WHITE CHANNEL RESOURCES INC.

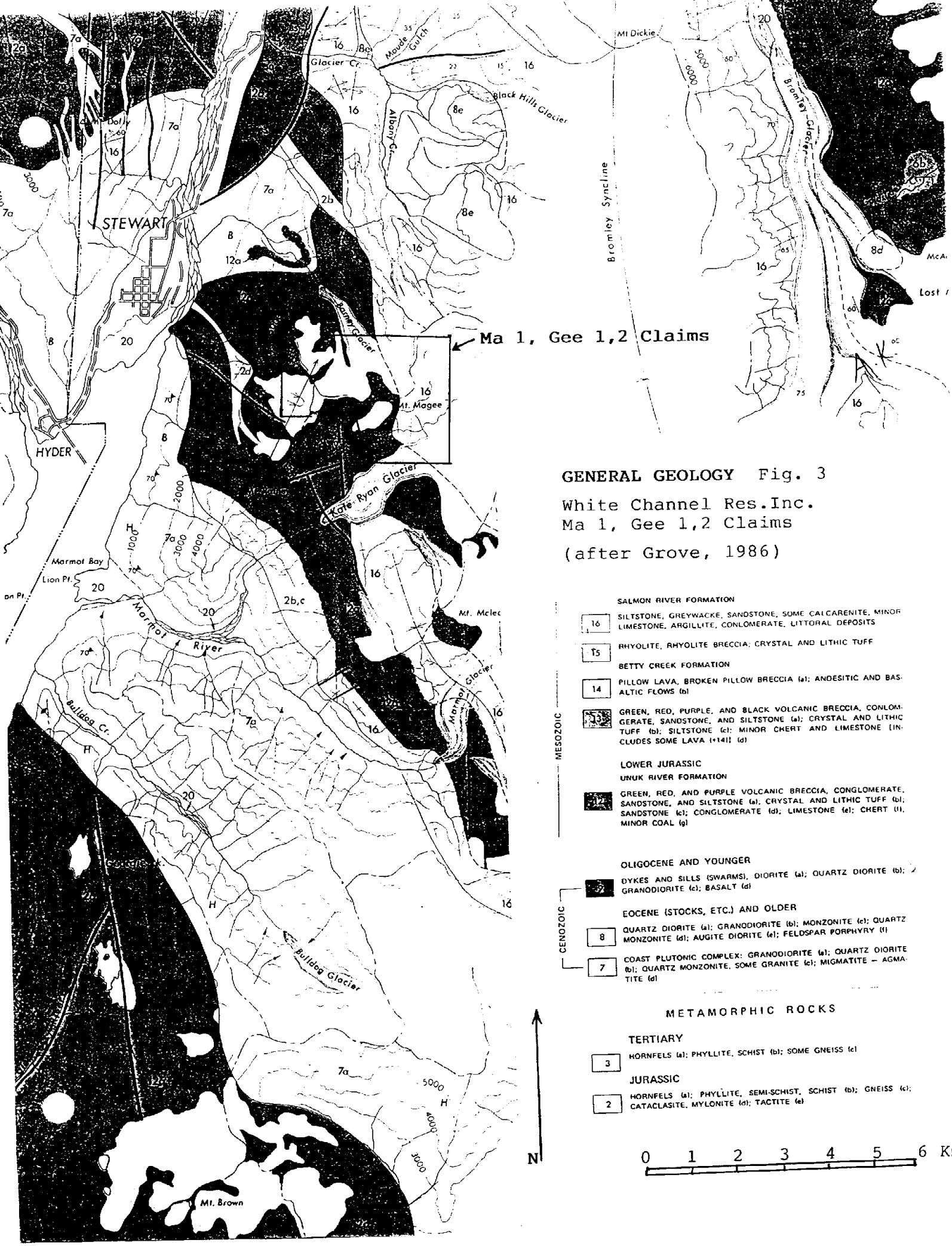
CLAIM LOCATION MAP FIG. 2

MA 1, GEE 1, 2 CLAIM GROUP

A.K.

N

SCALE 1:50,000 0 1 2 3 Km.



GENERAL GEOLOGY Fig. 3

White Channel Res.Inc.
Ma 1, Gee 1,2 Claims

(after Grove, 1986)

MESOZOIC

SALMON RIVER FORMATION

16 SILTSTONE, GREYWACKE, SANDSTONE, SOME CALCARENITE, MINOR LIMESTONE, ARGILLITE, CONLOMERATE, LITTORAL DEPOSITS

Ts RHYOLITE, RHYOLITE BRECCIA; CRYSTAL AND LITHIC TUFF

BETTY CREEK FORMATION

14 PILLOW LAVA, BROKEN PILLOW BRECCIA (a); ANDESITIC AND BASALTIC FLOWS (b)

13 GREEN, RED, PURPLE, AND BLACK VOLCANIC BRECCIA, CONLOMGERATE, SANDSTONE, AND SILTSTONE (a); CRYSTAL AND LITHIC TUFF (b); SILTSTONE (c); MINOR CHERT AND LIMESTONE (INCLUDES SOME LAVA (+14)) (d)

LOWER JURASSIC

UNUK RIVER FORMATION

12 GREEN, RED, AND PURPLE VOLCANIC BRECCIA, CONGLOMERATE, SANDSTONE, AND SILTSTONE (a); CRYSTAL AND LITHIC TUFF (b); SANDSTONE (c); CONGLOMERATE (d); LIMESTONE (e); CHERT (f), MINOR COAL (g)

CENOZOIC

OLIGOCENE AND YOUNGER

9 DYKES AND SILLS (SWARMS), DIORITE (a); QUARTZ DIORITE (b); GRANODIORITE (c); BASALT (d)

EOCENE (STOCKS, ETC.) AND OLDER

8 QUARTZ DIORITE (a); GRANODIORITE (b); MONZONITE (c); QUARTZ MONZONITE (d); AUGITE DIORITE (e); FELDSPAR PORPHYRY (f)

7 COAST PLUTONIC COMPLEX: GRANODIORITE (a); QUARTZ DIORITE (b); QUARTZ MONZONITE, SOME GRANITE (c); MIGMATITE – AGMATITE (d)

METAMORPHIC ROCKS

TERTIARY

3 HORNFELS (a); PHYLLITE, SCHIST (b); SOME GNEISS (c)

JURASSIC

2 HORNFELS (a); PHYLLITE, SEMI-SCHIST, SCHIST (b); GNEISS (c); CATACLASITE, MYLONITE (d); TACTITE (e)

0 1 2 3 4 5 6 Km

CLAIM GEOLOGY Fig. 4

White Channel Resources Inc. Sept. 90

Ma 1, Gee 1,2 Claims, N.T.S. 103 P/13W

LEGEND

- 2 — Middle Jurassic Salmon R.Fm.- Grey siltstone, minor greywacke and conglomerate.
- 1c — Lower Jurassic Unuk R.Fm.- Volcanic breccia, lapilli tuff, crystal tuff, dacitic.
- 1b — Andesitic flows, dark green colour, massive.
- 1a — Porphyritic andesite flows, 1-3 mm. plagioclase and hornblende phenocrysts

Fault — Bedding — Foliation

Vein — Limit of outcrop

Trench — Adit — Fracturing

N

0 200 400 600 m.

py.- pyrite
sp.- sphalerite
cp.- chalcopyrite
sp.hem.-specular hematite
chl.- chlorite
ep. - epidote

ICE

BARNEY GLACIER

88001 qtz. py. cp.

88002 qtz. chl. sp.hem.

Ma 1

Gee 1

Gee 2

Mt. Magee

Crown Grants

Barite

PORTER-IDAHO

A.K.

88003 py. sp.hem.

88004 py. sp.

py. chl. ep.

KATE RYAN GLACIER

GEOCHEMICAL VALUES Cu (ppm) Fig. 5

White Channel Resources Inc. Sept. 90

Ma 1, Gee 1,2 Claims, N.T.S. 103 P/13W

LEGEND

• Soil sample

△ Stream sediment sample

N

0 200 400 600 m.

ICE

BARNEY GLACIER

L 0+00S

58 39 134

45 56 52

95 112 705

74 360 52

33 35 43

56 50 23

88 58 62

L 7+00S

Ma 1

Gee 1

Gee 2

Mt.Magee

Crown Grants

PORTER-IDAHO

A.K.

ICE

0+00E

70 59 40 27 41 59 17 75 53

4+00E

88 47

KATE RYAN GLACIER

GEOCHEMICAL VALUES Pb (ppm) Fig. 6

White Channel Resources Inc. Sept. 90

Ma 1, Gee 1,2 Claims, N.T.S. 103 P/13W

LEGEND

• Soil sample

Δ Stream sediment sample

N

0 200 400 600 m.

ICE

BARNEY GLACIER

L 0+00S

143 34 109

97 28 29

20 27 36

179 152 159

19 132 295

24 42 12

30 28 34

L 7+00S

Ma 1

Gee 1

Gee 2

Mt.Magee

Crown Grants

PORTER-IDAHO

A.K.

ICE

0+00E

245 387 38 36 81 78 13 41 18

4+00E

28 26

KATE RYAN GLACIER

GEOCHEMICAL VALUES (ppm) Zn Fig. 7

White Channel Resources Inc. Sept. 90

Ma 1, Gee 1,2 Claims, N.T.S. 103 P/13W

LEGEND

• Soil sample

Δ Stream sediment sample

N

0 200 400 600 m.

ICE

BARNEY GLACIER

L 0+00S

176 97 195

219 122 110

108 193 152

823 366 356

L 7+00S

104 511 1625

102 129 48

118 112 85

Ma 1

Gee 1

Gee 2

Mt. Magee

Crown Grants

PORTER-IDAHO

A.K.

ICE

0+00E

744 669 134 126 179 218 61 141 103

4+00E

148 114

KATE RYAN GLACIER

GEOCHEMICAL VALUES Ag (ppm) Fig. 8

White Channel Resources Inc. Sept. 90

Ma 1, Gee 1,2 Claims, N.T.S. 103 P/13W

LEGEND

• Soil sample

△ Stream sediment sample

N

0 200 400 600 m.

L 0+00S

3.0 0.3 1.6

1.5 0.3 0.3

0.4 0.5 1.4

3.1 2.0 1.9

0.8 2.3 4.9

0.8 1.4 0.7

0.7 0.8 1.5

L 7+00S

ICE

BARNEY GLACIER

Ma 1

Gee 1

Gee 2

Mt. Magee

Crown Grants

PORTER-IDAHO

A.K.

ICE

0+00E

3.8 1.8 0.6 0.5 2.0 2.3 0.5 0.6 0.3

4+00E

2.5 0.7

KATE RYAN GLACIER

GEOCHEMICAL VALUES Au (ppb) Fig.9

White Channel Resources Inc. Sept. 90

Ma 1, Gee 1,2 Claims, N.T.S. 103 P/13W

LEGEND

. Soil sample

Δ Stream sediment sample

N

0 200 400 600 m.

L 0+00S

<5 10 50

<5 15 10

15 10 25

15 30 30

L 7+00S

<5 <5 <5

15 <5 <5

ICE

BARNEY GLACIER

Ma 1

Gee 1

Gee 2

Mt.Magee

Crown Grants

PORTER-IDAHO

A.K.

ICE

D+00E

<5 <5 10 10 <5 15 <5 10 15

4+00E

20 10

KATE RYAN GLACIER

0+00S
0+65S
1+30S
1+95S
2+60S
3+25S
3+90S
4+55S
5+20S
5+85S
6+50S
7+15S
7+80S
8+45S
9+10S
9+75S
10+40S
11+05S
11+70S
12+35S
13+00S
13+65S
14+30S
14+95S
15+60S
16+25S
16+90S
17+55S
18+20S
18+85S
19+50S
20+15S
20+80S
21+45S
22+10S
22+75S
23+40S
24+05S
24+70S
25+35S
26+00S
26+65S
27+30S
27+95S
28+60S
29+25S
29+90S
30+55S
31+20S
31+85S
32+50S
33+15S
33+80S
34+45S
35+10S
35+75S
36+40S
37+05S
37+70S
38+35S

Appendix A

White Channel Resources Inc. **Ma 1, Gee 1,2 Claims**

Sample Record - Trenched Rock Chip Samples Sept.90

Sample Number	Showing Name	Survey Location	Width (Metres)	Description	Au g/t	Ag g/t	Cu %	Pb %	Zn %
88001	Ma 1	1+35S 0+25E	0.6	2% diss. cp. in qtz.	0.03	19.7	1.31	0.01	0.0
88002	"	7+00S el. 6200'	0.45	2% spec.hematite	0.03	0.1	0.01	0.01	0.0
88003	Gee 2	1+30E	float	Qtz. py.,f.gr.spec.hematite	0.03	0.1	0.01	0.01	0.0
88004	"	3+00E	1.0	qtz. with trace py.,sp.	0.03	10.1	0.01	0.04	0.13

ECO-TECH LABORATORIES LTD.

Appendix B

10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

NAVARRE RES. CORP. - ETS 90-9097

201-744 WEST HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

SEPTEMBER 17, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: MAGEE
30 SOIL SAMPLES RECEIVED SEPTEMBER 10,1990

ET#	DESCRIPTION		AU(ppb	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9097 - 1	GEE	0+00 E	<5	3.8	2.41	277	7	272	<5	.63	8	51	26	70	7.74	<.01	30	1.27	6325	8	<.01	9	1391	245	19	<20	38	.03	<10	83	<10	9	744
9097 - 2	GEE	0+50 E	<5	1.8	2.24	33	5	396	<5	.54	10	28	4	54	4.93	.07	41	1.11	6870	2	<.01	6	1038	387	<5	<20	22	<.01	<10	39	<10	18	669
9097 - 3	GEE	1+00 E	10	.6	2.36	31	10	180	<5	.45	<1	21	8	40	4.78	.06	33	1.34	2316	1	.02	8	1125	38	<5	<20	41	.07	<10	81	<10	13	134
9097 - 4	GEE	1+50 E	10	.5	2.03	24	8	99	<5	.18	<1	16	4	27	4.15	.07	30	1.17	1517	<1	<.01	3	828	36	<5	<20	15	.02	<10	55	<10	7	126
9097 - 5	GEE	2+00 E	<5	2.0	1.84	49	10	134	<5	.14	1	20	6	41	4.52	.07	32	.96	1711	2	<.01	6	892	81	<5	<20	8	.01	<10	44	<10	7	179
9097 - 6	GEE	2+50 E	15	2.3	2.15	55	11	141	<5	.27	2	30	8	59	5.08	.04	29	1.42	1496	1	.01	9	932	78	<5	<20	16	.03	<10	73	<10	8	218
9097 - 7	GEE	3+00 E	<5	.5	1.78	20	10	165	<5	.40	<1	17	7	17	4.30	.07	21	1.20	1137	<1	<.01	4	1270	13	<5	<20	7	.01	<10	40	<10	5	61
9097 - 8	GEE	3+50 E	10	.6	2.06	60	10	176	<5	.49	2	24	16	75	5.05	.08	26	1.37	1599	<1	<.01	13	1260	41	<5	<20	14	.02	<10	59	<10	8	146
9097 - 9	GEE	4+00 E	15	.3	1.90	31	9	230	<5	1.37	<1	19	6	53	4.26	.13	25	1.18	1181	<1	<.01	4	1270	18	<5	<20	22	.03	<10	41	<10	7	103
9097 - 10	GEE	01	20	2.5	2.17	57	9	158	<5	.52	1	45	20	88	5.77	.02	16	1.85	787	<1	<.01	15	1115	28	<5	<20	19	.03	<10	106	<10	4	148
9097 - 11	GEE	02	10	.7	2.33	46	9	94	<5	.39	<1	27	17	47	5.69	.02	16	1.67	1041	<1	<.01	10	1246	26	<5	<20	14	.03	<10	71	<10	3	114
9097 - 12	MA	L0+00 S 0+00 W	10	.3	2.67	73	9	78	<5	.06	<1	11	16	39	5.84	.07	21	.56	1838	6	.01	10	1508	34	<5	<20	6	.04	<10	93	<10	3	97
9097 - 13	MA	L0+00 S 0+25 W	<5	3.0	2.31	497	11	108	<5	.29	4	20	12	58	4.73	<.01	36	.72	6412	8	<.01	14	1453	142	<5	<20	14	.03	<10	61	<10	20	176
9097 - 14	MA	L0+65 S 0+00 W	15	.3	2.51	33	9	74	<5	.34	<1	14	19	56	4.91	.08	27	1.18	1433	3	.03	23	1226	28	<5	<20	19	.09	<10	68	<10	13	122
9097 - 15	MA	L0+65 S 0+25 W	<5	1.5	2.57	45	11	84	<5	.18	1	17	13	45	5.41	.06	23	1.09	3073	4	.01	14	1312	97	<5	<20	12	.05	<10	72	<10	10	215
9097 - 16	MA	L0+00 S 0+25 E	50	1.6	2.99	67	12	91	<5	.17	<1	14	14	134	5.79	.04	23	.83	2183	6	.02	12	1390	109	<5	<20	13	<.01	<10	73	<10	8	195
9097 - 17	MA	L0+65 S 0+25 E	10	.3	2.45	33	10	83	<5	.30	<1	12	22	52	4.61	.10	22	1.12	934	4	.02	23	1368	29	<5	<20	18	.09	<10	71	<10	10	110
9097 - 18	MA	L1+30 S 0+00 W	10	.5	2.93	26	13	117	<5	.21	<1	17	19	112	6.17	.09	36	1.23	2409	4	<.01	21	1575	27	13	<20	15	.06	<10	80	13	33	143
9097 - 19	MA	L1+30 S 0+25 W	15	.4	2.71	25	9	78	<5	.18	<1	12	17	95	5.33	.10	33	1.05	1161	3	.04	14	1416	20	<5	<20	15	.07	<10	73	<10	17	108
9097 - 20	MA	L1+30 S 0+25 E	25	1.4	2.87	24	11	110	<5	.32	<1	16	26	705	5.27	.12	32	1.36	1043	3	.02	28	1315	36	<5	<20	21	.05	<10	55	<10	23	152
9097 - 21	MA	L2+15 S 0+00 W	30	3.1	3.50	40	9	188	<5	.27	1	30	14	360	6.15	.10	31	1.43	2776	3	.01	13	1447	152	<5	<20	15	.04	<10	74	<10	12	366
9097 - 22		L2+15 S 0+25 W	30	7.0	3.20	45	13	125	<5	.24	3	16	16	74	7.25	.11	40	1.19	2307	5	.01	17	1897	170	<5	<20	15	.03	<10	63	<10	34	823
9097 - 23		L2+15 S 0+25 E	75	1.9	2.59	33	9	196	<5	.21	1	27	17	52	5.54	.09	21	1.20	3072	6	.02	20	1308	159	<5	<20	14	.06	<10	62	<10	7	356
9097 - 24	MA	L4+60 S 0+00 W	<5	2.3	2.22	30	11	154	<5	.22	4	22	8	35	4.84	.06	28	.79	4474	4	<.01	12	936	132	<5	<20	17	.04	<10	36	<10	19	511
9097 - 25	MA	L4+60 S 0+25 W	<5	.8	2.72	32	13	107	<5	.14	<1	21	11	33	5.54	.10	23	.78	5817	5	.01	13	1526	19	<5	<20	10	.02	<10	58	<10	9	106
9097 - 26	MA	L4+60 S 0+25 E	<5	4.9	2.24	36	10	270	<5	.27	34	34	6	43	6.28	.10	35	.77	7451	7	<.01	10	1092	295	<5	<20	24	.02	<10	35	<10	31	1625

ECO-TECH LABORATORIES LTD.

NAVARRE RES. CORP. - ETS 90-9097

ET#	DESCRIPTION	AU(ppb	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9097 - 27	MA L6+15 S 0+00 W	<5	1.4	3.22	42	11	174	<5	.29	<1	33	11	50	6.42	.09	28	1.13	5552	4	.01	11	1668	42	<5	<20	15	.02	<10	74	<10	14	129
9097 - 28	MA L6+15 S 0+25 W	<5	.8	3.84	28	7	166	<5	.11	<1	23	9	56	4.58	.13	27	1.02	4380	3	.01	10	1917	24	<5	<20	9	.01	<10	48	<10	13	102
9097 - 29	L6+15 S 0+25 E	<5	.7	2.50	39	4	188	<5	.45	<1	17	4	23	4.06	.06	26	.99	3025	4	<.01	4	973	12	<5	<20	10	.01	<10	37	<10	8	48
9097 - 30	L7+00 S 0+00 W	5	.6	2.37	10	7	164	<5	.44	<1	15	19	58	3.17	.12	27	.85	829	<1	.01	20	897	28	<5	<20	27	.07	<10	42	<10	19	112
9097 - 31	L7+00 S 0+25 W	15	.7	2.72	28	10	139	<5	.26	<1	16	19	88	4.61	.13	24	1.17	1041	3	.02	19	1501	30	<5	<20	17	.03	<10	57	<10	11	119
9097 - 32	L7+00 S 0+25 E	<5	1.5	1.99	25	13	728	<5	.40	<1	55	6	62	5.84	.09	31	.74	6990	5	<.01	11	1027	34	8	<20	21	.01	<10	38	<10	18	85

NOTE: < = LESS THAN
> = GREATER THAN

FAX: 684-5135
STEWART LAB
E.W. GROVE 658-5289
C.C.: E.W. GROVE
4581 BOULDERWOOD
VICTORIA, B.C.

SC90/NAVARRE#2

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. CERTIFIED ASSAYER

ECO-TECH LABORATORIES LTD.
ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

SEPTEMBER 17, 1990

CERTIFICATE OF ANALYSIS ETS 90-9098

NAVARRE RES. CORP.
201 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

SAMPLE IDENTIFICATION: 4 ROCK samples received SEPTEMBER 10,1990
PROJECT: MAGEE

ET#	Description	AU (g/t)	AU (oz/t)	AG (g/t)	AG (oz/t)	CU (%)
9098 - 1	88001	<.03	<.001	19.7	.58	1.31
9098 - 2	88002	<.03	<.001	<.1	<.01	
9098 - 3	88003	.03	.001	<.1	<.01	
9098 - 4	88004	<.03	<.001	10.1	.30	

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. Certified Assayer

FAX: 684-5135
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cc. DR. E. W. GROVE
4581 BOULDERWOOD DR.
VICTORIA, B.C.

SC90/NAVARRE#2

ECO-TECH LABORATORIES LTD.

10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

SEPTEMBER 17, 1990

NAVARRE RES. CORP. - ETS 90-9098

201-744 WEST HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: MAGEE
4 ROCK SAMPLES RECEIVED SEPTEMBER 10,1990

ET#	DESCRIPTION	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9098 - 1	88001	18.2	.21	6	7	18	<5	1.13	<1	2	113	>10000	1.47	<.01	<10	.12	307	8	<.01	3	90	8	<5	<20	20	<.01	<10	3	<10	1	18
9098 - 2	88002	.4	.27	10	<2	124	<5	6.45	<1	60	55	31	2.50	.16	<10	.31	1483	5	<.01	1	340	14	<5	<20	172	<.01	<10	9	<10	4	35
9098 - 3	88003	.4	.14	48	13	26	<5	.21	<1	431	123	20	8.52	<.01	<10	.09	49	9	<.01	71	1191	5	<5	<20	11	.01	<10	17	<10	<1	9
9098 - 4	88004	9.0	.35	391	<2	40	<5	7.13	21	58	24	72	3.52	<.01	<10	1.78	906	13	<.01	8	1204	437	17	<20	169	<.01	<10	43	<10	15	1343

NOTE: < = LESS THAN
> = GREATER THAN

FAX: 684-5135
STEWART LAB
E.W. GROVE 658-5269

C.C.: E.W. GROVE
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S090/NAVARRE2

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. CERTIFIED ASSAYER

APPENDIX C

ECO-TECH LABORATORIES LTD.
ASSAYING · ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

GEOCHEMICAL LABORATORY METHODS

SAMPLE PREPARATION (STANDARD)

1. Soil or Sediment: Samples are dried and then sieved through 80 mesh nylon sieves.

2. Rock, Core: Samples dried (if necessary), crushed, riffled to pulp size and pulverized to approximately -140 mesh.

3. Heavy Mineral Separation: Samples are screened to -20 mesh, washed and separated in Tetrabromoethane. (SG 2.96)

METHODS OF ANALYSIS

All methods have either certified or in-house standards carried through entire procedure to ensure validity of results.

1. Multi-Element Cd, Cr, Co, Cu, Fe (acid soluble), Pb, Mn, Ni, Ag, Zn, Mo

Digestion	Finish
Hot aqua-regia	Atomic Absorption, background correction applied where appropriate

A) Multi-Element ICP

Digestion	Finish
Hot aqua-regia	ICP

1B. Gold

Digestion	Finish
a) Fire Assay Preconcentration followed by Aqua Regia	Atomic Absorption
b) 10g sample is roasted at 600°C then digested with hot Aqua Regia. The gold is extracted by MIBK and determined by A.A.	