Kennecott Canada Inc.

ASSESSMENT REPORT

ON THE

WHITEMAN 1, 2, AND III CLAIMS

Vernon Mining Division

Latitude: 50°13'00 north
Longitude: 119°38'00 west

NTS: 82L 04/E

Prepared by:

Kerry M. Curtis
Russ L. Cranswick

June 20, 1991

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1.0 INTRODUCTION

A program consisting of reconnaissance geological mapping, rock sampling and geochemistry was conducted on the Whiteman 1,2 and III claims from May 27 to May 31, 1991. The program was designed to identify possible epithermal type gold bearing structures on the property. The interest in this program was generated, in part, by reports (Huntington,1988) of strong gold mineralization on the adjacent Brett claims owned by Huntington Resources.

2.0 LOCATION, ACCESS AND TOPOGRAPHY (see Figures 1 and 2)

The Whiteman claims are located approximately 30 km southwest of Vernon, B.C. on the western side of Okanagan Lake. Whiteman Creek, a 20 km long creek which flows along the northern boundary, drains eastward into Okanagan Lake. Access to the claims is via Westside Road, along Okanagan Lake, to Whiteman Main logging road. The eastern property boundary occurs at approximately the 18 km marker on Whiteman Main.

The claims cover a portion of the north facing drainage of Whiteman Creek. Elevations on the property range from 3200 feet to 4800 feet with thick cover of fir, cedar and dense underbrush.

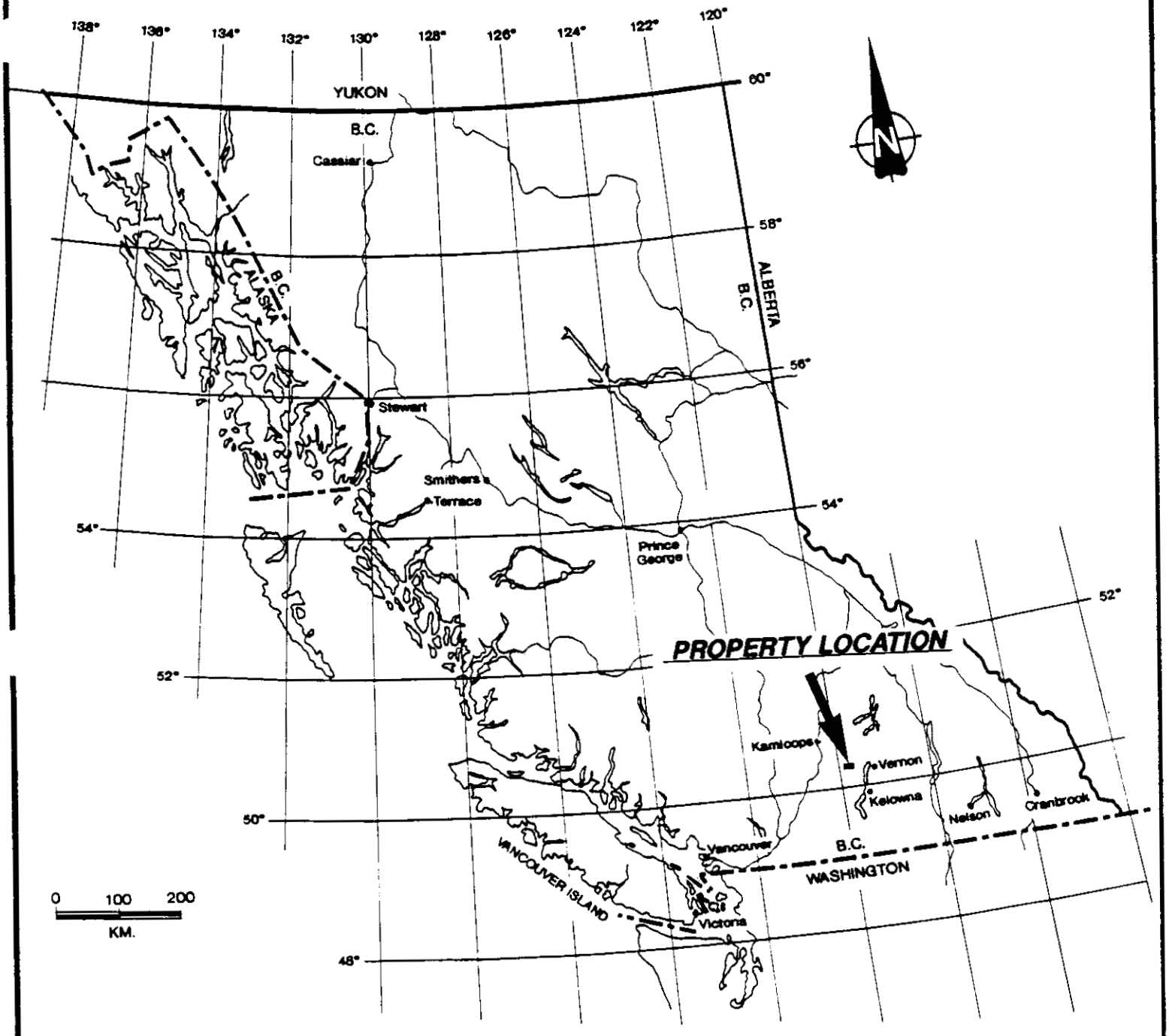
3.0 LIST OF CLAIMS (see Figures 2 and 3)

The Whiteman property consists of three contiguous mineral claims comprising 33 units. The claims were grouped in 1979 under the title Whiteman #1 Group. Ownership of the Whiteman 1, 2 and III claims is presently held by Kennco Explorations, (Western) Ltd. The claims fall under the jurisdiction of the Vernon Mining Division.

Claim	Record #	Units	Date of Record	Date of Expiry
Whiteman 1	329	6	May 30, 1977	May 30, 1992
Whiteman 2	339	18	June 14, 1977	June 14, 1992
Whiteman III	629	9	June 13, 1979	June 13, 1992
Total Units		33		

4.0 AREA HISTORY

The earliest recorded activity in the Whiteman Creek area was in the form of placer gold workings. As early as 1898 hydraulic gold mining occurred near the mouth of Whiteman Creek and continued until the early 1920's. No lode sources to these placer occurrences were ever reported.



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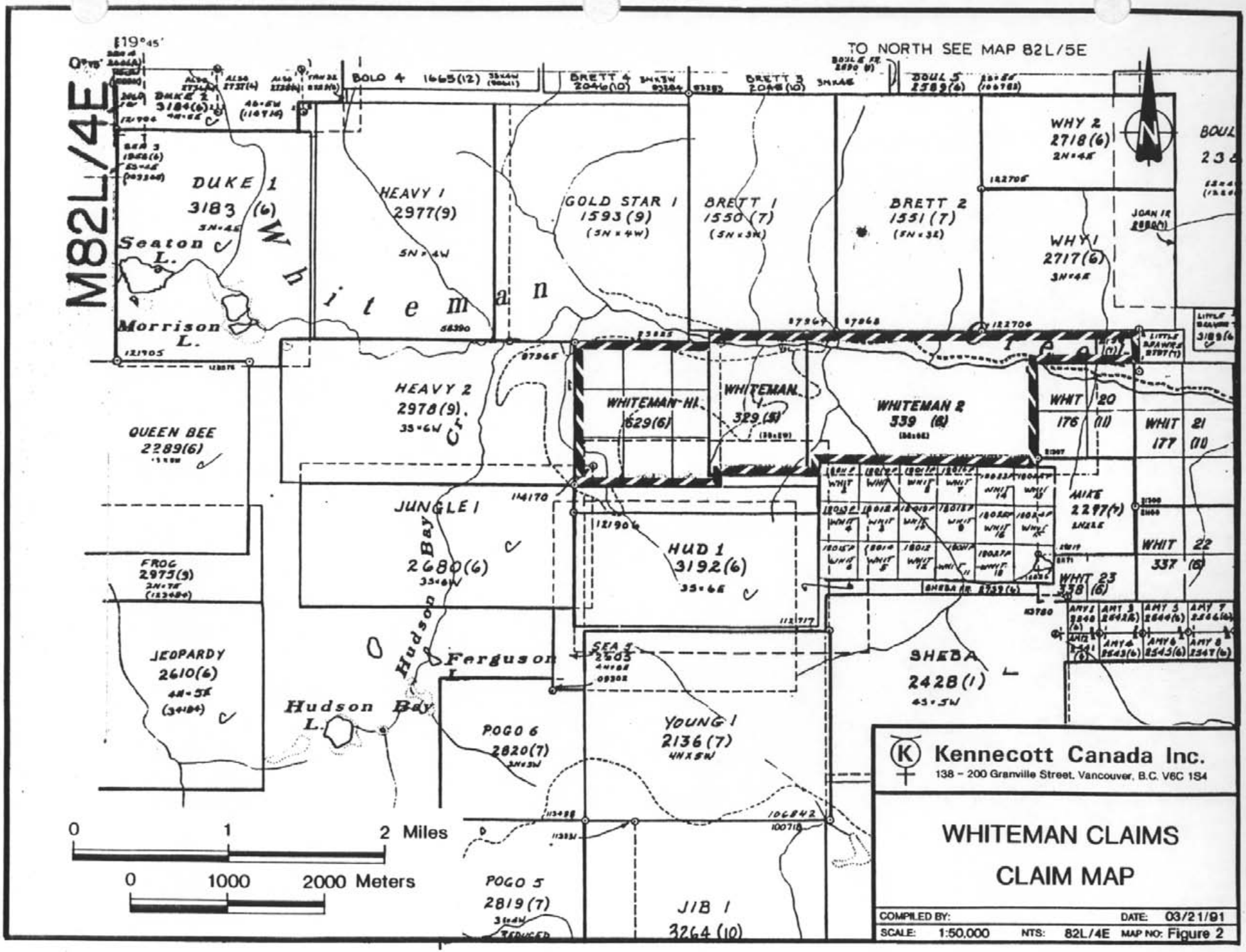
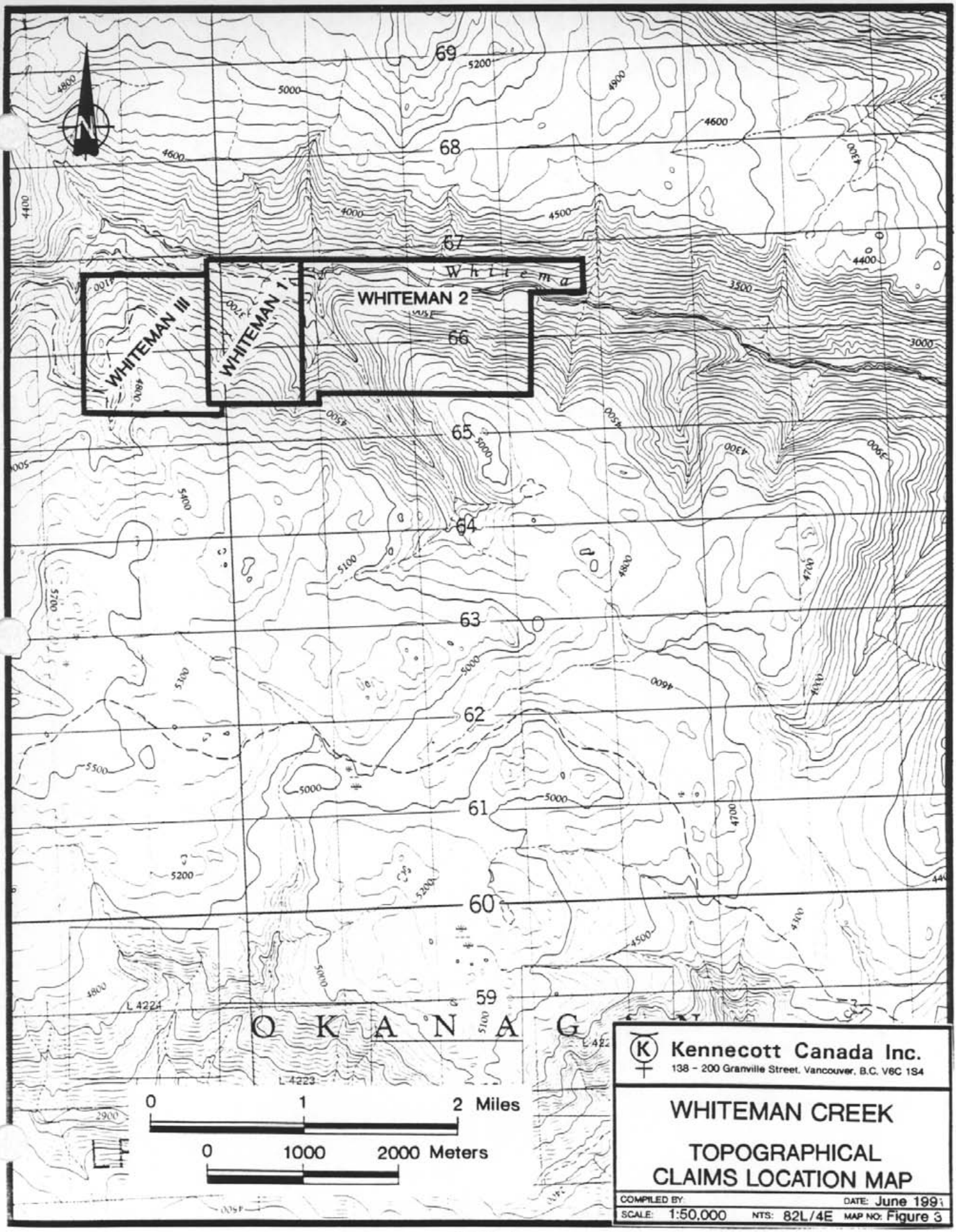
138 - 200 Granville Street, Vancouver, B.C. V6C 1S4

WHITEMAN CLAIMS

PROPERTY LOCATION MAP

COMPILED BY:		DATE: June 1991
SCALE:	NTS:	MAP NO: Figure 1


M82L/4E
TO NORTH SEE MAP 82L/5E
DUKE 1
3183 (6)
Seaton L.
Morrison L.
Whiteman
HEAVY 1
2977(9)
GOLD STAR 1
1593 (9)
(3N x 4W)
BRETT 1
1550 (7)
(3N x 3W)
BRETT 2
1551 (7)
(3N x 3E)
WHY 2
2718 (6)
WHY 1
2717 (6)
HEAVY 2
2978(9)
WHITEMAN HI
629(6)
WHITEMAN
329 (5)
WHITEMAN 2
339 (6)
QUEEN BEE
2289(6)
JUNGLE 1
2680(6)
HUD 1
3192(6)
FROG
2973(9)
JEOPARDY
2610(6)
Hudson Bay
Ferguson L.
Hudson Bay L.
SHEBA
2428(1)
YOUNG 1
2136(7)
POGO 6
2820(7)
POGO 5
2819(7)
JIB 1
3264 (10)
MIKE
2297(7)
WHIT 20
176 (11)
WHIT 21
177 (11)
WHIT 22
337 (6)
WHIT 23
338 (6)
0 1 2 Miles
0 1000 2000 Meters
Kennecott Canada Inc.
138 - 200 Granville Street, Vancouver, B.C. V6C 1S4
WHITEMAN CLAIMS
CLAIM MAP
COMPILED BY:
DATE: 03/21/91
SCALE: 1:50,000
NTS: 82L/4E
MAP NO: Figure 2


WHITEMAN III
WHITEMAN 1
WHITEMAN 2
Whiteman
69
68
67
66
65
64
63
62
61
60
59
O K A N A G
L 4224
L 4223
0 1 2 Miles
0 1000 2000 Meters
Kennecott Canada Inc.
138 - 200 Granville Street, Vancouver, B.C. V6C 1S4
WHITEMAN CREEK
TOPOGRAPHICAL
CLAIMS LOCATION MAP
COMPILED BY:
DATE: June 1993
SCALE: 1:50,000
NTS: 82L/4E
MAP NO: Figure 3

The area covered by the Whiteman 1 and 2 claims was first staked in 1973 based on the results of a regional stream geochemical program initiated by Kennco during 1960. Initially, the area was defined as a porphyry Mo-Cu target based on favourable geology, anomalous molybdenum and uranium levels. Evaluation of the property was initiated during 1973 by the staff of Kennco Explorations (Western) and subsequently the claims were allowed to lapse.

During 1977 Kennco staff re-evaluated and re-staked the area now defined by the Whiteman 1 and 2 claims and proposed further work based on anomalous molybdenum and fluorine values.

In 1979 the Whiteman III claim was staked and grouped with the Whiteman 1 and 2 claims. For several years following, a variety of work including rock and soil sampling, geophysics and diamond drilling was completed by Arcturus Mines Ltd who held the property under option. In 1981 all interest in the Whiteman 1, 2 and III claims was returned to Kennco Explorations (Western) Ltd.

5.0 REGIONAL GEOLOGY (Figure 4)

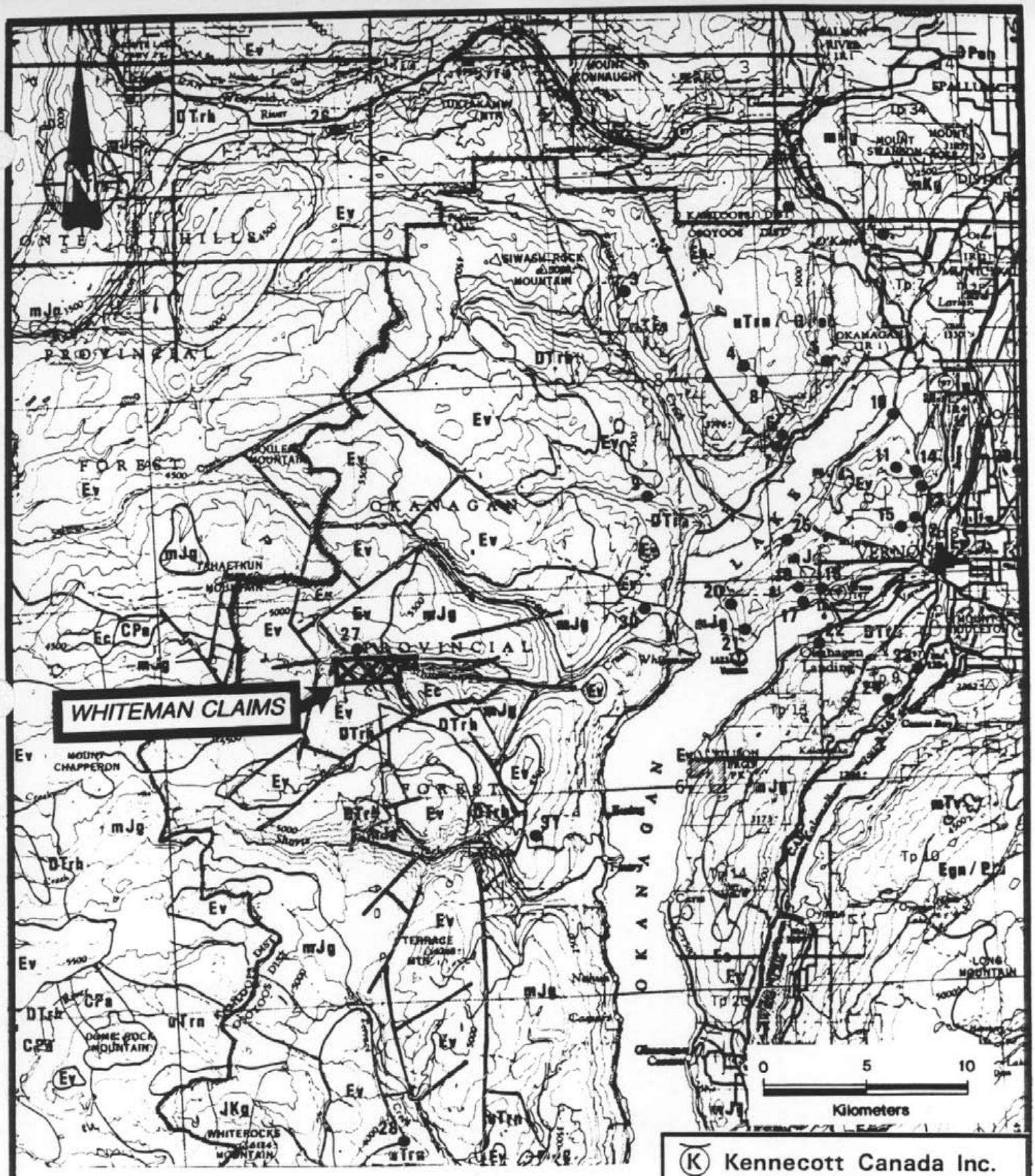
Recent initiatives (Meyers,1989) by the B.C. Geological Survey Branch indicate the western side of Okanagan Lake is underlain by basal units of the Devonian to Triassic Harper Ranch group (DTrh), a series of allocthonous intermediate volcanics and sediments. Subsequent intrusions of hornblende quartz diorite (mKg) of Middle Jurassic age are locally evident.

Crustal extension during the Eocene produced the dominantly mafic volcanic and lesser sedimentary rocks of the Kamloops Group which are extensive along the western side of Okanagan Lake. Alkalic to calc-alkalic syenites correlated to the Coryell Series intrusives (Meyers, 1989) are also locally evident (Whiteman Stock) and are likely sources of heat and fluids for Eocene mineralizing events.

Late (post Eocene) structural trends are represented by north-west and north-east directed faulting associated with the Louis Creek Fault.

6.0 PROPERTY GEOLOGY (Figure 5)

Reconnaissance scale mapping on the Whiteman claims confirmed the regional stratigraphic model proposed by Meyers (1989) in the previous section. The following is a description of rock types encountered on the property during 1991.



Ev Eocene Volcanics Some Sedimentary Rocks

Ec Coryell Syenite and equivalent. Alkalic to Calk Alkalic syenite - Monzonite

mJg Jurassic Intrusives

DTrh Devonian / Triassic Harper Ranch Group

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WHITEMAN CREEK

REGIONAL GEOLOGY

After Meyers (1989)

COMPILED BY: DATE: June 1991

SCALE: 1:250,000 NTS: MAP NO: Figure 4

Stratigraphy

Basal units of the Harper Ranch Group are not evident on the property. The oldest rocks identified on the property are correlated to the Eocene Kamloops Group volcanics. In the property area this series of upright mafic to intermediate flows and volcaniclastics is generally flat lying. Syenitic components of the Whiteman Stock (Coryell Syenite) dominate the Whiteman 1 claim, and are assumed to intrude the overlying Eocene volcanic package.

At the northwest corner of the Whiteman 1 claim, a strongly altered and locally stockwork veined (felsic ?) porphyry occurs adjacent to the Whiteman Stock (Figure 5). It is assumed that this is an associated phase of the Whiteman Stock and thus related to the felsic dike associated with mineralization at the Brett claims (News Release, Huntington, 1988).

Structure

North to northwest trending, steeply dipping, faults were identified in 1988 by the staff of Lacana/Huntington Resources on the adjoining Brett claims (Gruenwald,1989). These post Eocene structures were identified as the host to gold mineralization in the area. Strike projection of these gold bearing structures intersects the extreme north west corner of the Whiteman 2 claim.

Reconnaissance geology identified an area of intense shearing and associated limonitic/sericitic alteration located approximately at the point of projected intersection. Width of the zone exceeds 70 meters, however, orientation of the shearing was not identified.

7.0 GEOCHEMISTRY

During reconnaissance traverses a total of 41 rock samples were collected. Of these 39 were analyzed for gold plus an additional 32 element using ICP analysis and two rock samples were submitted for whole rock (7 major oxides) analysis.

In addition to rock sampling, two reconnaissance soil lines were sampled over areas of limited outcrop and limited previous work on the Whiteman III claim.

Sample locations and anomalous geochemical results are presented in Figure 6. Analytical results and procedures are provided in appendices.

7.1 TRACE ELEMENT GEOCHEMISTRY

Reconnaissance scale rock sampling was conducted to test for anomalous levels of Au, Ag, Cu and Pb reported to occur with gold mineralization on the adjoining Brett claims (Huntington,1988). A total of 39 rock chip samples were collected over all three claims and sent to Eco-Tech Laboratories of Kamloops B.C. for gold plus 32 element ICP analysis. Sample locations and anomalous results are presented in Figure 6 and complete analytical results are provided in appendices.

Analytical results suggest an absence of surface mineralization at the locations sampled. Weakly anomalous values in Au (40 ppb), Cu (136 ppm), Zn (275 ppm), Pb (174 ppm) were obtained at random sites across the property. Anomalous levels of Mo (358 ppm) were obtained within the Whiteman Stock on the Whiteman 2 claim.

7.2 SOIL GEOCHEMISTRY

Reconnaissance soil lines were sampled over areas with sparse outcrop in an attempt to identify buried mineralized structures on the Whiteman 1 and III claims. Lines were run on topographic contours with sample intervals of 25 meters.

Samples of B horizon soil were collected between 10 and 25 cm below surface. A total of 99 soil samples were shipped to Eco-Tech Labs of Kamloops B.C. for gold plus an additional 32 elements by ICP analysis. Sample locations and anomalous results are provided in Figure 6, while complete results are listed in appendices.

Areas of precious metal (Au,Ag) enrichment in soil were not defined, however localized enrichment of Ba (340 ppm), As (30 ppm) and Zn (130 ppm) were evident. Soil geochemical response may be reduced in some areas by a thick underlying talus cover which was noted during sampling.

Detailed soil sampling was performed over an area of limonitic alteration and intense shearing located on the main road which crosses the Whiteman 2 claim (see insert on Figure 6). Samples were taken at 10 meter intervals in order to closely define anomalous zones. Results indicate a slight enrichment in Au (20-35 ppb) and anomalous Pb (860 ppm) and Zn (172 ppm) over a 40 meter area.

7.3 LITHOGEOCHEMISTRY

Whole rock samples were taken to clarify the chemical nature of intrusive phases encountered on the property. A total of two whole rock samples were submitted to Eco-Tech Laboratories of Kamloops B.C. Samples were analysed for seven major oxides. Sample locations are provided in Figure 6 and results are listed in appendices.

Sample 91WKL001 was assumed to be a relatively unaltered specimen of orthoclase porphry (Whiteman Stock). This sample consisted of approximately 30 percent coarse orthoclase in a pink aphanitic groundmass. Free quartz was not apparent. Whole rock analysis indicates this rock to be rich in SiO_2, and the alkalies, K_2O and Na_2O. Low amounts of CaO and Loss on ignition indicate the rock to be poor in calcic plagioclase. Field examination and whole rock geochemistry indicate this rock to be a quartz rich alkalic intrusive.

Sample 91WKL002 was taken to compare intrusive phases on the property. This rock was an equigranular, dioritic phase exposed on the Whiteman 1 claim. Field examination indicated the rock to be associated with older Jurassic intrusions (mJg).

Whole rock analysis indicates a lesser amount of SiO_2 and total alkalies within this sample. Increased amounts of CaO are also evident. A position within the calc-alkalic series of intrusives is proposed for this rock type. While age relations between the two intrusive rock types are unclear, their differring bulk chemistry has been established.

8.0 CONCLUSIONS

Geological mapping indicates the Whiteman Claims cover an area of favorable geology for hosting epithermal type gold mineralization. Rock geochemistry failed to locate areas of anomalous precious metal mineralization on the Whiteman Claims. Contour soil geochemistry may have been hampered by the presence of a basal talus layer located below the B horizon. A broad area of intense shearing and limonitic staining located on the main road within the Whiteman 2 claim may reflect the southward extension of the Brett shear zone. Anomalous base metals and weakly anomalous Au in soils may indicate a location within the lower levels of this gold system. As such, further definition of this zone into higher topographic areas, utilizing geophysics (IP survey) may be warranted.

9.0 REFERENCES

Gilmour, W.R. (1989) — Geological, Geochemical, Geophysical and Trenching Assessment Report on the Why 1 Claim, B.C. Assessment Report #18799

Gruenwald, W. (1987) — Diamond Drilling report on the Brett Claims, Vernon Mining Division, British Columbia, B.C. Assessment Report #15564

Huntington Resources Inc. (1988) — News Release dated June, 7 1988.

Kyba, B.W, (1986) — Geochemical Assessment Report on the Gold Star Claim, Whiteman Creek, Vernon Mining Division, B.C. Assessment Report #15394

Meyers, R.E. (1987) — Current Work on the Brett Property, in Exploration in British Columbia 1987. B.C. Ministry of Energy, Mines and Petroleum Resources, Victoria, B.C.

Meyers, R.E. and Taylor, W.A. (1989) — Lode Gold-Silver Occurrences of the Okanagan Region, South-Central British Columbia. B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1989-5, Victoria, B.C.

Meyers, R.E. and Taylor, W.A. (1988) — Metallogenic Studies of Lode Gold-Silver Occurrences in South-Central British Columbia: A Progress Report. B.C. Ministry of Energy Mines and Petroleum Resources, Geological Fieldwork, 1988, Paper 1989-1. Victoria, B.C.

Wallace, S.R. (1980) — Review of the Whiteman Creek Molybdenite Prospect, Vernon Mining Division, B.C. Company Report for Essex Minerals.

Woodcock, J.R. (1979) — Geology, Geochemistry and Geophysics of the Whiteman 1, 2 and III Claims, Vernon Mining Division, B.C. Company Report for Kennco Explorations (Western) Ltd.

Woodcock, J.R. and Gorc, D. (1980) — Whiteman Creek Drill Project. Company Report for Arcturus Mines Ltd.

APPENDIX 1

Itemized Cost Statement

ITEMIZED COST STATEMENT

PROJECT: WHITEMAN **FIELD DATES: May 27 to May 31,1991**

GEOLOGY

R. Cranswick - Project Geologist	5 days @ 250 per	$1,250
K. Curtis - Contract Geologist	7 days @ 200 per	$1,400

GEOCHEMISTRY

Soil Samples	99 @ $12 per	$1,188
Rock Samples	39 @ $17 per	$663
Lithogeochemical Samples	2 @ $30 per	$60

TRAVEL

Truck Rental (Cana Rentals Ltd.)	5 days @ $65 per	$325
Gas		$175

FOOD/ACCOMODATION

Room and Board	5 days @ $150 per	$750

EQUIPMENT

Maps, reports, field gear, supplies.	$414

REPORT

Draughting, photocopies	$500

TOTAL EXPENDITURES **$6,725**

APPENDIX 2

Analytical Results

ECO-TECH LABORATORIES LTD.

10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
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KENNECOTT CANADA INC. ETK 91-316

130 - 200 GRANVILLE STREET
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V6C 1S4

ATTENTION: RUSS CRABSTICK

JUNE 13, 1991

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: 02-249 (WHITEHAM)
22 ROCK SAMPLES RECEIVED MAY 31, 1991

ETK	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
316 - 1	91 RRR 01	5	.2	.35	5	2	105	<5	.10	<1	2	102	9	.93	.27	60	.05	34	12	.04	1	270	60	<5	<20	118	<.01	<10	2	<10	2	10
316 - 2	91 RRR 02	5	.4	.16	15	6	45	<5	.02	<1	3	80	6	2.10	.25	20	.04	24	35	.02	1	130	56	<5	<20	22	<.01	<10	2	<10	<1	11
316 - 3	91 RRR 03	5	.4	.23	5	4	25	<5	.03	<1	1	95	1	.80	.20	60	.04	22	20	.02	<1	140	30	<5	<20	22	<.01	<10	1	<10	1	6
316 - 4	91 RRR 04	5	<.2	1.09	25	6	20	<5	.94	<1	14	44	1	3.46	.07	20	1.15	405	2	.02	<1	2600	22	5	<20	49	.19	<10	64	<10	10	42
316 - 5	91 RRR 05	5	<.2	.91	30	4	25	<5	.58	<1	14	51	<1	4.33	.09	20	.95	416	2	.03	<1	2230	28	<5	<20	53	.20	<10	70	<10	7	40
316 - 6	91 RRR 06	5	<.2	1.46	20	4	50	<5	3.17	<1	20	104	<1	3.76	.09	40	2.04	921	1	<.01	11	1970	12	6	<20	73	.10	<10	72	<10	9	57
316 - 7	91 RRR 07	5	<.2	1.01	25	2	150	<5	3.46	<1	20	67	<1	4.48	.21	50	1.21	1276	2	<.01	6	2390	8	5	<20	129	.01	<10	73	<10	7	60
316 - 8	91 RRR 08	5	.2	.56	20	2	50	<5	.15	<1	4	44	<1	3.52	.55	50	.18	67	4	.14	<1	1120	102	<5	<20	116	<.01	<10	10	<10	<1	9
316 - 9	91 RRR 10	5	<.2	1.31	10	2	165	<5	.23	<1	5	58	21	2.02	.57	30	.78	220	12	.03	9	530	18	<5	<20	57	.03	<10	48	<10	4	103
316 -10	91 RRR 13	5	<.2	1.53	20	4	50	<5	1.79	<1	19	74	<1	4.37	.19	40	1.02	1095	2	<.01	4	2420	8	<5	<20	59	.06	<10	71	<10	7	72
316 -11	91 RRR 25	5	<.2	1.64	25	4	20	<5	1.55	<1	21	73	14	4.75	.11	50	1.31	775	1	<.01	5	2380	10	5	<20	52	.01	<10	107	<10	6	62
316 -12	91 RRR 35	5	<.2	1.70	20	4	200	<5	.39	<1	7	75	4	3.99	.13	20	1.75	841	4	.03	1	2360	14	5	<20	54	.01	<10	101	<10	<1	73
316 -13	91 RRR 40	5	<.2	1.61	35	4	20	<5	.49	<1	15	84	6	5.36	.09	30	1.69	625	4	.02	2	2050	16	<5	<20	60	.02	<10	70	<10	<1	62
316 -14	91 RRR 51	5	<.2	1.33	10	2	140	<5	.76	<1	8	33	2	2.30	.09	60	1.06	540	2	.02	3	1530	4	<5	<20	50	.01	<10	32	<10	6	53
316 -15	91 RRR 52	5	<.2	1.53	15	4	40	<5	.01	<1	16	77	<1	3.29	.04	30	1.55	745	2	.02	3	2000	6	<5	<20	70	.04	<10	73	<10	7	63
316 -16	91 RRR 53	5	<.2	1.00	10	4	30	<5	.44	<1	6	34	<1	1.50	.04	40	.72	472	2	.02	1	990	16	<5	<20	38	.01	<10	34	<10	6	50
316 -17	91 RRR 54	5	<.2	.94	10	4	60	<5	.37	<1	7	75	<1	2.10	.13	40	.66	417	5	.04	1	1070	10	<5	<20	37	.01	<10	21	<10	2	49
316 -18	91 RRR 55	5	1.2	.62	20	2	105	<5	.16	<1	4	21	<1	3.25	.24	120	.35	155	6	.06	3	1050	10	<5	<20	104	.01	<10	24	<10	1	22
316 -19	91 RRR 56	40	1.2	.46	25	2	200	<5	.12	<1	4	21	<1	3.00	.16	120	.14	120	12	.05	0	1000	14	<5	<20	86	<.01	<10	16	<10	1	18
316 -20	91 RRR 57	5	<.2	1.32	25	<2	55	<5	.23	<1	5	79	7	5.04	.51	30	.95	218	2	.05	12	1100	174	<5	<20	196	.01	<10	46	<10	<1	84
316 -21	91 RRR 59	5	.6	.25	5	2	50	<5	.07	<1	1	76	12	1.00	.19	100	.05	24	16	.02	<1	160	32	<5	<20	51	<.01	<10	2	<10	2	10
316 -22	91 RRR 60	5	<.2	1.05	30	4	315	<5	3.46	<1	10	49	6	5.03	.10	40	.51	757	2	<.01	3	1440	12	<5	<20	130	.01	<10	64	<10	2	30

NOTE: < = LESS THAN

ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI, B.Sc.T.
B.C. CERTIFIED ASSAYER

SC91/KENNECOTT

ECO-TECH LABORATORIES LTD.

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JUNE 10, 1991

KENNECOTT CANADA INC. ETK 91-319

138 - 200 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1S4

ATTENTION: RUSS CRANSWICK

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: 02-249 (WHITEHAM)
99 SOIL SAMPLES RECEIVED MAY 31, 1991

ETH	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
319 - 1	ORS 09	<5	<.2	2.44	35	40	195	<5	.62	<1	38	73	136	7.74	.17	60	.88	1219	12	.01	74	2430	40	<5	<20	105	.07	<10	73	<10	17	275
319 - 2	ORS 11	<5	.2	1.47	10	16	215	<5	.53	<1	11	20	8	2.08	.08	20	.23	881	<1	.02	10	1690	10	<5	<20	69	.07	<10	40	<10	3	67
319 - 3	ORS 12	<5	<.2	1.47	15	10	320	<5	.34	<1	16	22	8	3.52	.11	30	.27	563	1	.01	9	1920	16	<5	<20	40	.04	<10	42	<10	<1	64
319 - 4	ORS 14	<5	<.2	2.13	15	10	270	<5	.60	<1	27	25	14	3.61	.08	60	.37	1560	1	.01	9	1830	16	<5	<20	62	.06	<10	59	<10	12	96
319 - 5	ORS 15	<5	<.2	1.74	10	8	175	<5	.52	<1	10	16	6	2.09	.06	20	.24	469	<1	.01	6	1560	8	<5	<20	29	.07	<10	40	<10	3	59
319 - 6	ORS 16	<5	<.2	1.80	10	6	140	<5	.35	<1	13	32	8	2.98	.07	20	.35	434	<1	.01	8	1200	10	<5	<20	32	.06	<10	55	<10	2	50
319 - 7	ORS 17	<5	<.2	1.92	5	8	85	<5	.24	<1	9	13	4	1.92	.04	10	.16	344	<1	.02	6	1370	8	<5	<20	22	.09	<10	36	<10	4	44
319 - 8	ORS 18	<5	<.2	1.65	5	8	85	<5	.27	<1	8	15	4	1.85	.05	10	.17	289	<1	.02	6	1500	6	<5	<20	23	.09	<10	38	<10	3	47
319 - 9	ORS 19	<5	<.2	1.42	5	6	140	<5	.18	<1	8	11	4	1.62	.05	10	.16	277	<1	.01	5	2790	6	<5	<20	14	.08	<10	28	<10	2	55
319 -10	ORS 20	<5	<.2	1.42	5	6	350	<5	.38	<1	7	9	5	1.34	.05	10	.12	539	<1	.02	4	4470	4	<5	<20	55	.07	<10	24	<10	3	66
319 -11	ORS 21	<5	<.2	1.57	5	6	340	<5	.73	<1	7	7	4	1.35	.07	10	.12	425	<1	.01	3	4310	6	<5	<20	54	.08	<10	24	<10	4	50
319 -12	ORS 22	<5	<.2	1.59	20	6	85	<5	.35	<1	14	38	9	3.35	.06	20	.73	309	1	.01	7	770	10	5	<20	32	.05	<10	71	<10	<1	55
319 -13	ORS 23	<5	<.2	1.70	10	6	145	<5	.37	<1	12	24	6	2.43	.07	10	.32	502	<1	.01	7	1810	8	<5	<20	33	.07	<10	47	<10	1	60
319 -14	ORS 24	<5	<.2	1.46	30	4	200	<5	.53	<1	18	32	14	5.78	.10	60	.45	319	1	.00	6	900	18	<5	<20	49	.03	<10	120	<10	6	81
319 -15	ORS 26	<5	<.2	1.66	15	4	125	<5	.44	<1	13	35	7	3.16	.08	20	.48	328	<1	.01	9	990	10	<5	<20	38	.04	<10	58	<10	<1	54
319 -16	ORS 27	<5	<.2	1.32	10	6	80	<5	.34	<1	9	14	4	2.03	.04	10	.20	301	<1	.02	4	1150	6	<5	<20	35	.08	<10	47	<10	1	41
319 -17	ORS 28	<5	<.2	2.12	10	6	130	<5	.31	<1	13	25	7	2.61	.06	10	.37	276	<1	.01	9	2180	10	<5	<20	41	.08	<10	46	<10	2	63
319 -18	ORS 29	<5	<.2	1.56	<5	8	125	<5	.31	<1	7	10	4	1.40	.05	10	.14	560	<1	.02	5	2840	6	<5	<20	29	.08	<10	28	<10	4	57
319 -19	ORS 30	<5	<.2	1.75	10	6	215	<5	.65	<1	12	12	6	2.28	.07	20	.20	670	<1	.01	5	3080	10	<5	<20	88	.07	<10	35	<10	3	95
319 -20	ORS 31	<5	<.2	2.28	15	6	100	<5	.21	<1	15	14	7	2.67	.05	20	.26	648	<1	.02	7	2220	14	<5	<20	22	.08	<10	35	<10	4	59
319 -21	ORS 32	<5	<.2	1.86	10	6	195	<5	.42	<1	17	19	8	2.23	.05	20	.32	1472	<1	.01	7	2280	10	5	<20	35	.08	<10	40	<10	3	87
319 -22	ORS 33	<5	<.2	2.24	10	6	85	<5	.43	<1	12	20	6	2.29	.06	20	.28	621	<1	.01	8	2820	8	<5	<20	27	.07	<10	43	<10	3	73
319 -23	ORS 34	<5	<.2	1.68	10	6	90	<5	.38	<1	13	25	5	2.41	.07	10	.44	410	<1	.01	10	580	10	<5	<20	29	.08	<10	51	<10	2	66
319 -24	ORS 36	<5	.6	1.58	5	6	125	<5	.24	<1	11	12	4	1.85	.06	10	.20	474	1	.02	7	2830	8	<5	<20	25	.08	<10	35	<10	2	92
319 -25	ORS 37	<5	.2	1.40	5	6	70	<5	.17	<1	11	11	4	1.79	.03	10	.21	597	<1	.02	7	1200	8	<5	<20	17	.08	<10	41	<10	3	93
319 -26	ORS 38	<5	<.2	1.95	5	6	110	<5	.37	<1	12	13	5	1.97	.05	10	.20	645	<1	.01	6	3190	6	<5	<20	27	.09	<10	36	<10	3	80

ECO-TECH LABORATORIES LTD. KENNECOTT CANADA INC. ETK 91-319

ETK	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	Z
319 -27	RRS 39	<5	.2	1.96	10	4	165	<5	.29	<1	19	34	9	3.03	.06	20	.46	1169	1	.01	10	1720	12	<5	<20	26	.07	<10	57	<10	1	12
319 -28	RRS 41	<5	<.2	1.63	20	6	100	<5	.45	<1	16	46	9	3.75	.09	30	.70	309	1	.01	11	1210	12	<5	<20	36	.07	<10	76	<10	1	5
319 -29	RRS 42	<5	<.2	2.07	10	6	65	<5	.20	<1	10	10	6	2.12	.04	10	.26	295	<1	.02	8	1850	8	<5	<20	20	.09	<10	30	<10	4	6
319 -30	RRS 43	<5	.3	2.20	10	6	95	<5	.35	<1	10	13	4	2.13	.05	10	.21	301	<1	.02	7	2390	10	<5	<20	34	.10	<10	40	<10	3	6
319 -31	RRS 44	<5	.2	1.79	20	6	45	<5	.50	<1	15	42	14	3.95	.03	20	1.42	336	1	.00	6	960	16	5	<20	57	.05	<10	91	<10	<1	6
319 -32	RRS 45	<5	<.2	1.93	5	6	100	<5	.32	<1	8	10	4	1.60	.05	10	.17	371	<1	.02	5	2010	8	<5	<20	28	.09	<10	28	<10	3	6
319 -33	RRS 46	<5	<.2	1.59	5	8	355	<5	.53	1	8	11	6	1.41	.06	10	.16	1180	<1	.01	4	4630	10	<5	<20	48	.08	<10	22	<10	4	13
319 -34	RRS 47	<5	<.2	1.71	10	8	170	<5	.49	<1	12	26	7	2.56	.07	20	.35	564	<1	.01	9	2350	22	<5	<20	38	.08	<10	47	<10	2	9
319 -35	RRS 48	<5	.2	1.38	8	8	75	<5	.50	1	8	12	4	1.66	.04	10	.15	453	<1	.02	3	1090	10	<5	<20	31	.10	<10	36	<10	3	15
319 -36	RRS 49	<5	<.2	2.04	5	6	40	<5	.22	<1	10	13	4	2.07	.04	10	.16	164	<1	.02	7	1370	16	<5	<20	21	.13	<10	34	<10	5	5
319 -37	RRS 50	<5	.2	1.95	10	6	60	<5	.29	<1	12	24	7	2.55	.05	20	.30	202	1	.01	9	700	10	<5	<20	30	.09	<10	45	<10	2	8
319 -38	RRS 58	<5	.5	1.82	30	4	95	<5	.73	<1	8	70	10	6.79	.65	30	1.53	281	13	.08	16	2090	128	5	<20	723	.01	<10	58	<10	<1	8
319 -39	RRS 61	20	.4	1.56	30	6	145	<5	.74	<1	23	53	29	7.20	.17	40	.84	506	9	.02	27	2230	28	<5	<20	156	.07	<10	70	<10	5	8
319 -40	RRS 62	<5	<.2	1.87	30	6	210	<5	.84	<1	23	55	21	7.35	.13	40	.77	402	4	.01	33	1970	26	<5	<20	107	.07	<10	71	<10	5	8
319 -41	RRS 63 - 45 MESH	25	1.7	1.73	30	6	95	<5	.56	<1	14	57	42	8.11	.53	40	.91	342	10	.04	14	3950	114	<5	<20	755	.03	<10	56	<10	2	6
319 -42	RRS 64	30	.2	2.12	25	6	230	<5	.72	<1	18	106	46	8.21	.31	40	1.21	385	8	.01	23	2720	30	<5	<20	311	.07	<10	75	<10	1	9
319 -43	RRS 65 - 45 MESH	35	2.0	2.59	40	8	245	<5	.25	<1	19	153	69	12.40	.56	40	1.84	557	38	.02	27	2440	22	5	<20	200	.10	<10	113	<10	<1	17
319 -44	RRS 66 - 45 MESH	15	.8	1.78	40	6	185	<5	.17	<1	15	95	43	9.43	.56	40	1.25	285	20	.03	17	1840	50	<5	<20	333	.08	<10	78	<10	<1	13
319 -45	RRS 67	15	2.4	1.78	25	4	140	<5	.24	<1	7	78	36	7.29	.68	40	.98	192	12	.06	8	3370	860	5	<20	1511	.05	<10	48	<10	<1	6
319 -46	RRS 68	25	.8	3.42	20	6	210	<5	.44	<1	10	156	45	8.44	.94	40	2.69	420	13	.03	15	3280	140	5	<20	1262	.10	<10	114	<10	3	13
319 -47	RRS 69 - 45 MESH	<5	.9	2.37	30	8	180	<5	.23	<1	13	129	44	8.86	.60	40	1.70	346	17	.02	18	1850	68	<5	<20	376	.08	<10	86	<10	<1	11
319 -48	RRS 70	10	.6	2.88	30	6	170	<5	.32	<1	12	135	39	9.56	.59	30	1.96	466	13	.03	14	2550	34	5	<20	496	.09	<10	104	<10	<1	12
319 -49	RRS 71 - 45 MESH	5	.2	2.20	40	6	180	<5	.20	<1	12	66	29	9.42	.10	50	.53	373	20	.00	10	3630	120	<5	<20	56	.02	<10	96	<10	<1	7
319 -50	RKS 001	<5	.3	2.11	<5	6	90	<5	.21	<1	8	14	5	1.56	.05	20	.16	740	2	.01	10	2080	10	<5	<20	22	.09	<10	25	<10	4	9
319 -51	RKS 002	<5	.4	1.87	5	6	105	<5	.17	<1	11	29	6	3.48	.05	20	.32	334	2	.01	10	2150	14	<5	<20	23	.07	<10	48	<10	1	8
319 -52	RKS 003	<5	.2	1.29	<5	6	130	<5	.32	<1	8	9	3	2.04	.04	<10	.13	616	1	.01	5	2910	8	<5	<20	29	.08	<10	28	<10	2	9
319 -53	RKS 004	<5	.3	2.04	<5	4	150	<5	.23	<1	8	14	5	2.63	.07	20	.24	172	1	.01	7	2300	16	<5	<20	41	.07	<10	25	<10	3	4
319 -54	RKS 005	<5	.3	3.07	<5	6	145	<5	.30	<1	10	20	6	2.81	.08	20	.31	203	1	.01	8	3720	16	<5	<20	53	.09	<10	25	<10	7	3
319 -55	RKS 006	<5	.3	1.56	10	6	130	<5	.40	<1	14	27	8	3.16	.07	40	.37	871	3	.00	11	1570	20	<5	<20	38	.05	<10	41	<10	7	9
319 -56	RKS 007	<5	.4	1.55	20	6	115	<5	.55	<1	20	49	16	5.69	.07	80	.61	926	2	.00	10	2050	20	<5	<20	43	.04	<10	73	<10	16	7
319 -57	RKS 008	<5	.3	2.32	<5	6	105	<5	.34	<1	9	19	6	2.81	.05	20	.26	692	<1	.01	6	2850	12	<5	<20	25	.08	<10	34	<10	5	7
319 -58	RKS 009	<5	.3	1.94	<5	6	105	<5	.10	<1	10	21	5	2.78	.05	10	.30	281	1	.01	7	1700	12	<5	<20	17	.08	<10	39	<10	2	5
319 -59	RKS 010	<5	.2	3.10	<5	6	110	<5	.36	<1	9	14	4	2.27	.05	<10	.16	363	1	.01	7	4470	10	<5	<20	18	.10	<10	23	<10	3	6
319 -60	RKS 011	<5	.4	3.52	<5	6	105	<5	.21	<1	10	20	8	2.90	.05	20	.28	233	1	.01	9	2320	12	<5	<20	19	.11	<10	29	<10	7	4
319 -61	RKS 012	<5	.2	2.97	<5	6	80	<5	.24	<1	9	13	4	2.27	.03	10	.17	194	1	.01	6	2170	10	<5	<20	17	.10	<10	23	<10	3	4
319 -62	RKS 013	<5	.6	3.48	<5	6	95	<5	.33	<1	9	16	6	2.65	.04	10	.22	246	1	.01	8	1930	10	<5	<20	22	.10	<10	24	<10	4	5
319 -63	RKS 014	<5	.3	2.58	<5	8	90	<5	.20	<1	8	9	3	2.02	.04	10	.11	244	1	.02	5	2750	8	<5	<20	20	.10	<10	24	<10	4	3

ECO-TECH LABORATORIES LTD. KENNECOTT CANADA INC. ETK 91-319

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RYÐ	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	
319 -64	RKS 015	<5	.3	2.46	<5	6	120	<5	.15	<1	9	14	4	2.16	.04	10	.19	359	<1	.01	7	3550	10	<5	<20	15	.09	<10	24	<10	3	
319 -65	RKS 016	<5	.2	2.28	<5	6	80	<5	.10	<1	9	16	4	2.46	.05	10	.20	179	1	.01	7	1700	10	<5	<20	16	.08	<10	34	<10	3	
319 -66	RKS 017	<5	.4	3.31	<5	4	145	<5	.22	<1	7	12	6	2.33	.05	20	.17	198	<1	.01	10	1810	12	<5	<20	20	.08	<10	16	<10	8	
319 -67	RKS 018	<5	.4	2.68	<5	6	145	<5	.47	<1	7	7	2	2.04	.04	<10	.08	399	<1	.01	3	4840	8	<5	<20	31	.09	<10	21	<10	3	
319 -68	RKS 019	<5	.4	2.04	<5	6	90	<5	.23	<1	8	10	4	2.20	.03	10	.13	152	<1	.02	5	2340	8	<5	<20	20	.09	<10	29	<10	3	
319 -69	RKS 020	<5	.3	1.95	5	6	55	<5	.24	<1	11	19	4	2.04	.04	10	.23	165	<1	.01	7	1740	10	<5	<20	19	.07	<10	40	<10	2	
319 -70	RKS 021	<5	.2	2.06	5	6	110	<5	.32	<1	10	17	3	2.72	.07	10	.22	253	1	.01	7	2080	10	<5	<20	27	.07	<10	36	<10	2	
319 -71	RKS 022	<5	.2	1.74	5	6	95	<5	.35	<1	13	37	6	3.71	.07	20	.47	241	1	.01	10	1060	14	<5	<20	31	.06	<10	61	<10	1	
319 -72	RKS 023	<5	.3	2.67	<5	6	80	<5	.20	<1	10	10	6	2.74	.05	20	.23	201	<1	.01	14	2660	12	<5	<20	24	.09	<10	32	<10	4	
319 -73	RKS 024	<5	.4	3.09	<5	6	75	<5	.25	<1	12	17	6	2.71	.05	10	.25	295	<1	.01	12	2650	12	<5	<20	24	.09	<10	30	<10	3	
319 -74	RKS 025	<5	.4	2.43	5	4	105	<5	.23	<1	13	27	6	3.23	.07	20	.38	326	<1	.01	14	1070	14	<5	<20	26	.08	<10	48	<10	2	
319 -75	RKS 026 - 45 MESH	<5	.4	1.70	15	6	110	<5	.63	<1	19	51	16	5.06	.11	60	.85	504	1	.01	13	1050	22	<5	<20	55	.08	<10	75	<10	10	
319 -76	RKS 027	<5	.2	1.90	5	6	115	<5	.25	<1	12	29	6	3.31	.05	10	.40	227	1	.01	11	1150	16	<5	<20	27	.07	<10	49	<10	1	
319 -77	RKS 028	<5	.2	2.11	30	4	130	<5	.33	<1	15	37	10	2.95	.06	20	.51	392	<1	.01	12	1330	18	<5	<20	34	.09	<10	58	<10	5	1
319 -78	RKS 029	<5	<.2	1.01	15	6	150	<5	.20	<1	8	11	3	1.53	.03	<10	.12	966	<1	.01	5	1940	10	<5	<20	21	.08	<10	32	<10	2	
319 -79	RKS 030	<5	.2	1.56	25	6	130	<5	.23	<1	15	39	10	2.91	.07	20	.51	400	1	.01	11	1530	24	<5	<20	32	.10	<10	63	<10	2	
319 -80	RKS 031	<5	.3	1.52	30	6	115	<5	.66	<1	16	52	10	4.22	.08	70	.75	429	2	.01	14	1690	30	<5	<20	62	.08	<10	76	<10	13	
319 -81	RKS 032	<5	.2	1.40	35	6	130	<5	.74	<1	14	45	10	3.75	.09	60	.69	471	2	.01	12	2050	44	5	<20	60	.08	<10	73	<10	12	
319 -82	RKS 033	<5	.2	2.07	20	6	170	<5	.38	<1	9	15	4	1.79	.07	10	.17	518	1	.01	7	4260	10	<5	<20	41	.08	<10	28	<10	3	
319 -83	RKS 034	<5	<.2	1.72	25	6	130	<5	.52	<1	12	26	8	2.63	.08	30	.42	504	1	.01	9	1600	18	<5	<20	49	.08	<10	47	<10	4	
319 -84	RKS 035	<5	.2	1.46	15	6	150	<5	.26	<1	9	11	4	1.63	.04	10	.14	772	<1	.02	5	2480	8	<5	<20	29	.09	<10	30	<10	3	
319 -85	RKS 036	<5	<.2	1.57	25	6	90	<5	.51	<1	13	38	8	3.12	.09	20	.63	353	1	.01	9	1030	18	<5	<20	54	.09	<10	78	<10	2	
319 -86	RKS 037	<5	.2	1.98	25	6	130	<5	.33	<1	13	34	8	2.87	.05	20	.39	563	<1	.01	12	1170	18	<5	<20	35	.08	<10	58	<10	1	1
319 -87	RKS 038	<5	<.2	1.82	25	6	85	<5	.22	<1	12	32	6	2.58	.05	10	.58	225	<1	.01	9	780	10	5	<20	31	.09	<10	56	<10	1	
319 -88	RKS 039	<5	<.2	1.31	30	6	85	<5	.35	<1	14	45	9	3.39	.08	20	.68	245	1	.01	10	860	12	<5	<20	40	.09	<10	70	<10	2	
319 -89	RKS 040	<5	.3	1.93	20	6	145	<5	.38	<1	11	16	5	1.79	.06	10	.30	234	<1	.01	7	2930	10	<5	<20	47	.09	<10	28	<10	2	
319 -90	RKS 041	5	.2	1.90	15	6	55	<5	.23	<1	7	8	3	1.40	.03	<10	.11	150	<1	.02	5	1420	6	<5	<20	25	.10	<10	23	<10	4	
319 -91	RKS 042	<5	<.2	1.25	15	6	125	<5	.41	<1	8	10	6	1.73	.04	10	.22	294	<1	.01	5	1020	12	<5	<20	42	.08	<10	34	<10	2	1
319 -92	RKS 043	<5	<.2	1.93	30	6	90	<5	.28	<1	13	33	9	3.07	.05	20	.52	276	1	.01	9	1420	26	<5	<20	30	.08	<10	58	<10	1	
319 -93	RKS 044	<5	<.2	1.65	20	6	115	<5	.29	<1	9	14	4	1.99	.03	10	.21	258	<1	.02	7	2210	10	<5	<20	26	.09	<10	38	<10	2	
319 -94	RKS 045	<5	.2	1.60	25	6	140	<5	.41	<1	11	20	5	2.25	.06	10	.38	429	1	.01	8	2060	8	<5	<20	40	.08	<10	42	<10	2	
319 -95	RKS 046	<5	<.2	1.26	15	6	200	<5	.26	<1	8	9	3	1.52	.04	<10	.14	665	<1	.02	4	3340	6	<5	<20	28	.08	<10	30	<10	2	
319 -96	RKS 047	<5	.2	1.38	20	8	150	<5	.46	<1	10	16	5	1.82	.06	10	.29	783	<1	.01	5	1670	12	<5	<20	41	.07	<10	34	<10	2	
319 -97	RKS 048	<5	.2	1.92	20	6	190	<5	.60	<1	11	17	6	2.07	.07	10	.35	402	<1	.01	8	3120	10	<5	<20	62	.07	<10	33	<10	3	
319 -98	RKS 049	<5	.2	2.10	15	6	170	<5	.33	<1	12	27	6	1.98	.10	10	.37	696	<1	.01	25	1480	6	<5	<20	31	.10	<10	36	<10	2	
319 -99	RKS 050	<5	<.2	1.91	20	6	130	<5	.23	<1	8	7	3	1.44	.03	<10	.11	806	<1	.02	4	3970	6	<5	<20	21	.09	<10	24	<10	3	

NOTE: < = LESS THAN

Per FRANK J. PEZZOTTI, A.Sc.T.
B.C. CERTIFIED ASSAYER

SC91/KENNECOTT

ECO-TECH LABORATORIES LTD.

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

KENNECOTT CANADA INC. ETK 91-317

130 - 200 GRANVILLE STREET
VANCOUVER, B.C.
V6C 1S4

ATTENTION: RUSS CRANSWICK

JUNE 10, 1991

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: 02-269 (WHITEHAM)
19 ROCK SAMPLES RECEIVED MAY 31, 1991

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
317 - 1	91 WKR 001	5	<.2	.54	15	2	120	<5	.15	<1	3	114	122	1.86	.15	40	.20	264	16	.07	1	550	36	<5	<20	20	.03	10	29	<10	6	32
317 - 2	91 WKR 002	5	<.2	.62	5	4	130	<5	.13	<1	2	83	20	1.51	.27	40	.32	230	7	.07	<1	760	22	<5	<20	37	.06	<10	29	<10	7	10
317 - 3	91 WKR 003	5	.6	.23	<5	2	30	<5	.01	<1	1	141	14	1.15	.31	<10	.03	37	29	.03	<1	60	24	<5	<20	10	<.01	<10	7	<10	1	<1
317 - 4	91 WKR 004	5	<.2	.30	5	2	10	<5	.04	<1	1	166	8	.57	.20	<10	.02	25	26	.02	<1	10	4	<5	<20	5	<.01	<10	6	<10	<1	<1
317 - 5	91 WKR 005	5	.4	.26	5	<2	15	<5	.01	<1	2	96	6	2.11	.23	20	.02	20	33	.02	<1	100	26	<5	<20	12	<.01	<10	6	<10	1	<1
317 - 6	91 WKR 006	5	<.2	.45	5	2	60	<5	.11	<1	2	52	<1	2.00	.10	20	.20	106	6	.05	<1	750	14	<5	<20	12	.03	<10	31	<10	6	15
317 - 7	91 WKR 007	5	.6	.22	5	4	45	<5	.04	<1	<1	71	<1	.75	.13	40	.06	52	17	.05	<1	100	124	<5	<20	8	.01	<10	8	<10	2	2
317 - 8	91 WKR 008	5	.2	.27	<5	4	50	<5	.02	<1	2	43	<1	1.02	.16	50	.12	52	12	.05	<1	210	36	<5	<20	8	.01	<10	7	<10	3	<1
317 - 9	91 WKR 009	5	<.2	.21	5	2	50	<5	.03	<1	1	57	10	.66	.17	80	.01	15	12	.02	<1	140	8	<5	<20	10	<.01	10	6	<10	3	<1
317 -10	91 WKR 010	5	<.2	.63	5	2	60	<5	.31	<1	4	55	6	2.09	.26	120	.34	1262	14	.06	2	540	10	<5	<20	12	.05	<10	60	<10	26	61
317 -11	91 WKR 011	5	.2	.31	5	<2	120	<5	.05	<1	3	62	1	1.30	.14	40	.03	195	19	.05	<1	420	26	<5	<20	10	.01	<10	9	<10	6	15
317 -12	91 WKR 012	15	3.4	.25	5	<2	80	<5	.04	<1	3	119	14	1.56	.14	40	.03	393	250	.02	<1	170	58	<5	<20	7	<.01	10	8	<10	8	23
317 -13	91 WKR 013	5	1.6	.29	5	2	165	<5	.09	<1	3	66	10	1.22	.15	40	.03	673	95	.02	<1	360	290	<5	<20	14	<.01	20	8	<10	10	52
317 -14	91 WKR 014	5	<.2	.29	5	<2	135	<5	.19	<1	3	83	7	1.24	.07	60	.05	1017	21	.04	1	330	20	<5	<20	15	<.01	10	14	<10	13	70
317 -15	91 WKR 015	5	<.2	1.03	5	<2	540	<5	2.53	<1	7	21	8	3.07	.10	40	.53	520	2	.04	4	1770	6	<5	<20	57	.03	<10	88	<10	19	97
317 -16	91 WKR 016	5	.4	.23	5	<2	65	<5	.13	<1	2	85	21	1.49	.09	50	.04	1116	39	.04	<1	310	100	<5	<20	8	<.01	10	15	<10	10	147
317 -17	91 WKR 017	5	<.2	2.19	15	<2	65	<5	.50	<1	9	120	40	3.07	.15	50	2.34	1090	6	.04	29	2760	60	5	<20	10	.01	<10	99	<10	8	134

NOTE: < = LESS THAN

ECO-TECH LABORATORIES LTD.
CLINT AYERS
LABORATORY MANAGER

SC91/KENNECOTT

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

JUNE 12, 1991

CERTIFICATE OF ANALYSIS ETK 91-317

KENNECOTT CANADA INC.
130 - 200 GRANVILLE ST.
VANCOUVER, B.C.
V6C 1SA

ATTENTION: RUSS CRANSWICK

SAMPLE IDENTIFICATION: 19 ROCK samples received MAY 31 , 1991
PROJECT: 02-249 (WHITEMAN)

ET#	Description	BaO	P2O5	SiO2	MnO	Fe2O3	MgO	Al2O3	CaO	TiO2	NaO2	K2O	L.O.I.
317 -18	91 WKL 001	.06	.12	73.39	.06	2.15	.21	14.71	.56	.35	4.12	4.67	.95
317 -19	91 WKL 002	.16	.55	60.49	.11	5.28	2.70	16.11	3.60	.86	4.01	3.63	2.26

NOTE: VALUES EXPRESSED IN PERCENT

ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI, A.Sc.T.
B.C. CERTIFIED ASSAYER

SC91/KENNECOTT

APPENDIX 3

Analytical Procedures

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

June 19, 1991

KENNECOTT CANADA INC.
#138 - 200 Granville Street
VANCOUVER, B.C.
V6C 1S4

ATTENTION: Kerry Curtis

Dear Kerry:

With reference to our telephone conversation, the following geochemical procedures were used to analyze the samples recently submitted:

- Gold Geochem

Fire Assay preconcentration on a 10 gram sample; Atomic Absorption finish.

- Multi-Element ICP

Sample (1.000 g.) is digested with 6 ml. of 3:1:2 mixture of HCl, HNO_3, H_2O at 95° C for 90 minutes and then diluted to 20 ml with distilled water and analyzed by ICP.

Please don't hesitate to call me if I can be of further assistance.

Sincerely,

ECO-TECH LABORATORIES

Frank J. Pezzotti, A.Sc.T.
President

APPENDIX 4

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

KERRY M. CURTIS, Geologist

I, KERRY M. CURTIS, of 5, 3636 West 16th Avenue, Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Geologist in the employment of Kennecott Canada Inc., of Suite 138, 200 Granville Street, Vancouver, British Columbia, V6C 1S4.

2. THAT I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology.

3. THAT my primary employment since 1985 has been in the field of mineral exploration.

4. THAT my experience has encompassed a wide range of geologic environments and has allowed considerable familiarization with prospecting, geophysical, geochemical and exploration drilling techniques.

5. THAT this report is based on field work, conducted by myself, and field data compiled myself, during May and June of 1991.

6. THAT I have no interest in the property described herein, nor in securities of any company associated with the property, nor do I expect to receive any such interest.

DATED at Vancouver, B.C., this 24TH day of JULY, 1991.

Kerry M. Curtis, Geologist

C:MAIN\CURTIS.QUA

STATEMENT OF QUALIFICATIONS

I, **Russ L. Cranswick**, of 102 - 2110 West 5th Avenue, Vancouver, B.C. V6K 1S2, hereby certify that:

1) I am a geologist employed by Kennecott Canada Inc., 138 - 200 Granville Street, Vancouver, British Columbia V6C 1S4.

2) I am a graduate of the University of British Columbia with a B.Sc. Degree in Geology obtained in 1987.

3) I have practised in the field of mineral exploration since 1984 in a wide variety of geological environments within British Columbia, Ontario, the Yukon Territories and the Northwest Territories.

4) I am co-author of this report which is based on field work and data compilation conducted by myself and the co-author during the week of May 27 - 31, 1991.

5) I have no direct, or indirect, interest in the property described herein, nor do I expect to receive any such interest in this or any other associated properties.

DATED at Vancouver, B.C., this 24th day of July, 1991.

Russ L. Cranswick, Geologist

B:STMTQUAL.CRA

119°40'

50°15'

BRETT 1 BRETT 2

BRETT SHEAR ZONE (Au)

WHITEMAN 1

WHITEMAN 2

WHITEMAN III

LCP WHITEMAN I & 2 (Not located)

LCP WHITEMAN III (Not located)

CORYELL SYENITE (WHITEMAN STOCK)

EOCENE VOLCANICS

4W ID Post (No tags)

Base Line ON

strong joint set

rare 10-20 cm rusty shears

10-20cm shears

hem qtz vnlets

ep alt'd late qtz globules

tr py

intr?

sil'd, str alt'n

ep alt'd x tr-1% py

sil'd and x

ep-alt'd intr?

platyin a/c

tuff

lahar/ lap tuff

crse tuff

hem'c tuff

tpor and

tight, hem'c and

bl'd, alt'd late qtz

hem vnlets v.f. gr purplish and

bl'd and tr py

tuffaceous and

sheared? gossanous

alt'd felsic

x tuff(?)

bl'd, alt'd 8(?)

gran'c

gran'c intr

x maroon volc

x 8 and

thick fill

x ep alt'd 2% py

shear related qtz string tr As (?)

limonitic tr py

mang

wk mang

vuggy qtz string

Why Grid 2+00E

QS

argillic

4 tr py

3-4% and py

Fe crete

ep alt'd

Talus

bleached 1-2% py

1-2 % py

tr py

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,546

0 500 1000
METERS

⊕ Old Grid Station

Joints, Dipping, Vertical

Fault (inferred)

Sense of Movement (inferred)

ep Epidote

mang Manganese

bl'd Bleached

hem Hematite

⊡ LCP from B.C. Government 1:50,000 Mineral Title Maps

KAMLOOPS GROUP

[8] Andesites

[7] Lahar

[6] Tuffs

[5] Mafic Dykes

CORYELL SUITE INTRUSIVES (WHITEMAN STOCK)

(?) [4] (Felsic)? Porphyry (Qtz Stringers, Sericite)

[3] Orthoclase Prophyry

[2] Stockwork Zone

Kennecott Canada Inc.
138 - 200 Granville Street, Vancouver, B.C. V6C 1S4

WHITEMAN CREEK
GEOLOGY

COMPILED BY:	R. Cranswick, K. Curtis	DATE:	June 1991
SCALE:	1:10,000	NTS: 82L/4	MAP NO.: Figure 5

119°40'

50°15'

BRETT 1 | BRETT 2

WHITEMAN III

WHITEMAN 1

WHITEMAN 2

LCP WHITEMAN III (Not located)

LCP WHITEMAN 1 & 2 (Not located)

SEE INSERT FOR DETAIL

FLAG LINE

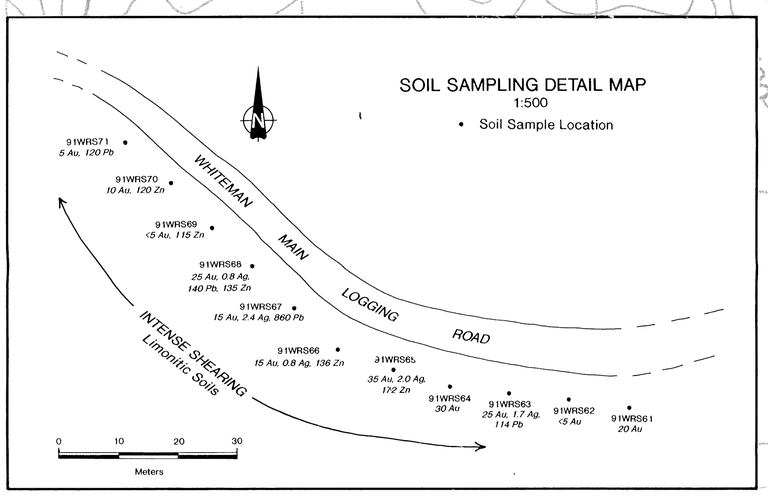
Base Line ON,18+25W

ID Post 4W

SOIL SAMPLING DETAIL MAP

1:500

• Soil Sample Location



GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,546

0 500 1000
METERS

Sample Codes

Soil Sample -91WKS, 91WRS
Rock Sample -91WKR, 91WRR
Lithogeochemical Sample
-91WKL, 91WRL

• Contour Soil Geochem
■ 1991 Rock Geochem
} Gold values in ppb, All others in ppm

Outcrop
× Float
Traverse
WK-1 Traverse Station
⊕ Old grid station
⊡ LCP

Kennecott Canada Inc.
138 - 200 Granville Street, Vancouver, B.C. V6C 1S4

WHITEMAN CREEK

ROCK SAMPLE LOCATIONS & ANOMALOUS RESULTS

COMPILED BY:	R. Cranswick, K. Curtis	DATE:	June 1991
SCALE:	1:10,000	NTS:	82L/4
MAP NO.:	Figure 6		