

LOG NO:	MAY 21 1992	RD.
ACTION:	L	
FILE NO:		

1991 GEOCHEMICAL REPORT
ON THE SWAN 1-11 MINERAL CLAIMS

Similkameen Mining Division, B.C.
NTS: 92H/9W,10E; Lat.49 deg 39'N; Long.120 deg 27'W

May, 1992 (BC ASSESSMENT REPORT)

REPORT DISTRIBUTION

→Government : 2
Fairfield : 1
Field : 1
Cordilleran: Original
Total: 5 reports

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,302

1 9 9 1 G E O C H E M I C A L R E P O R T
O N T H E S W A N 1 - 1 1 M I N E R A L C L A I M S

Similkameen Mining Division, B.C.
Latitude 49 deg 39'N; Longitude 120 deg 27'W.
NTS: 92H/9W,10E

For

FAIRFIELD MINERALS LTD.
Vancouver, British Columbia

By

J. D. Rowe, B.Sc.,
Geologist

CORDILLERAN ENGINEERING LTD.
1980-1055 W. Hastings St.
Vancouver, B.C. V6E 2E9

Date Submitted: May, 1992
Field Period: October 17-20, 1991

TABLE OF CONTENTS

	<u>Page</u>
1.0 SUMMARY AND CONCLUSIONS	1
2.0 RECOMMENDATIONS	2
3.0 INTRODUCTION	3
3.1 Location and Physiography	3
3.2 Claim Data	3
3.3 History	6
3.4 1991 Exploration Program	6
4.0 GEOLOGY	7
4.1 Regional Geology	7
4.2 Property Geology & Mineralization	7
5.0 GEOCHEMISTRY	9
5.1 Sampling Procedure	9
5.2 Results	9
6.0 PERSONNEL	11
7.0 STATEMENT OF EXPENDITURES	12
8.0 REFERENCES	13
9.0 STATEMENT OF QUALIFICATIONS	14
10.0 ANALYTICAL RESULTS 1991 soil samples	

TABLES

Table 1 Claim Status	6
----------------------------	---

FIGURES

Figure 1 Property Location Map	4
Figure 2 Claim, and Grid Locations	5
Figure 3 Regional Geology	8

PLATE

(in pocket)

Plate 1 Au/Cu soil Geochemistry	<u>Scale</u> 1:10,000
---------------------------------------	--------------------------

The Swan Property, located 22 kilometres north of Princeton, BC., comprises eleven claims (139 units) in the Similkameen Mining Division. The claims, staked during 1989, 1990 and 1991 are owned 100 percent by Fairfield Minerals Ltd. Exploration, which targetted copper-gold mineralization, was conducted by Cordilleran Engineering Ltd.

Logging roads provide excellent access to the western half of the property. The physiographic setting consists of a north-south ridge with moderately steep slopes extensively covered by thin glacial overburden. Steep-sided creek canyons present some difficult terrain on the southwest claims.

Previous exploration by others in the property area included prospecting, mapping, soil sampling, geophysics, trenching and percussion drilling. On the Axe claims, directly to the west, extensive exploration in the 1970's indicated potential for a large tonnage of low grade copper mineralization.

In 1989 grid soil samples were collected on the western half of the property (Swan 1 and 3) and analyzed for gold, silver, copper and zinc.

In 1990 grid soil sampling of the eastern (Swan 2 and 4) and southern (Swan 5) portions of the property was undertaken followed by detailed fill-in sampling around anomalous sites.

The 1991 program involved wide-spaced soil sampling of the southwestern claims (Swan 6-11) with a total of 458 samples collected and analyzed for copper and gold. To date 4000 soils have been collected.

The Swan property overlies the contact between a Late Cretaceous granite pluton and an Upper Triassic assemblage of volcanic, sub-volcanic and sedimentary rocks. A short distance to the west, on the Axe property, significant amounts of chalcopyrite, with pyrite and magnetite, are disseminated in strongly fractured and altered volcanic and sub-volcanic rocks.

The 1991 soil sampling identified three areas of clustered copper anomalies with locally associated gold enrichment. The largest and strongest anomaly extends north to northwest for more than 1000 metres with copper values up to 4596 ppm and gold values up to 120 ppb. Sheared, altered, pyritic granite in this area has potential to host vein or stockwork mineralization.

Based upon the abundance of strongly anomalous copper and gold geochemical results, significant anomalous trends and nearby known mineral occurrences, further follow up soil sampling and prospecting on the Swan property is definitely warranted.

2.0

R E C O M M E N D A T I O N S

Soil sampling should be continued on the southwest Swan claims to fill-in areas of copper and gold anomalies. Initially, lines at 200 metre-spacings should be established between existing 400 metre-spaced lines, to be followed up with selected 50 by 50 metre sample grids to better define geochemical trends. A total of 500 samples is estimated.

Prospecting should be undertaken in areas of anomalous copper or gold and samples collected from any altered or mineralized rocks.


Those areas of anomalous copper confirmed by fill-in sampling should be surveyed by induced polarization to test for bodies of disseminated sulphides which may host a large low-grade copper deposit.

Selected strong gold geochemical trends should be surveyed by VLF-EM and magnetometer to help define major structures which may have localized gold mineralization.

Areas with mineral showings or strongly anomalous geochemistry, coincident geophysical signatures and an overburden depth less than four metres should be trenched to bedrock with an excavator. Trenches should be cleaned, mapped and chip sampled.

Respectfully submitted

CORDILLERAN ENGINEERING LTD.



J. D. Rowe, B.Sc.
Geologist

2.0

I N T R O D U C T I O N

3.1 LOCATION AND PHYSIOGRAPHY (Figure 1)

The Swan property is located 20 kilometres north of Princeton in south-central British Columbia (Figure 1). The property is centered on latitude 49 degrees 39'N and longitude 120 degrees 27'W within NTS map area 92H/9W,10E. Access is via highway 5A north from Princeton, then north on Summers Creek road and Rampart Creek Forest Service road. Several recent logging roads traverse the west half of the property.

The claims cover an area of 35 square kilometres on a north-south trending ridge between the valleys of Summers Creek and Hayes Creek. Elevations range from 1150 to 1550m above sea level. Swanson Creek transects the property from northeast to southwest and has several small, swampy ponds on the upper section. Rampart Creek, which crosses the western claims, is a moderate-size drainage 2 to 3m wide. Steep-sided canyons are present along portions of Rampart and Summers Creeks on the southwestern claims. Bedrock exposure varies from very sparse to moderate in some areas, and glacial till cover is widespread but generally shallow. Mature stands of pine with lesser fir and spruce have been logged from several large plots on the western claims. Thick alder undergrowth is prevalent on the eastern claims. Annual temperatures range from -20 deg. C to +30 deg. C and precipitation is low to moderate. The area is basically snow-free from late May through October.

3.2 CLAIM DATA (Figure 2 & Table 1)

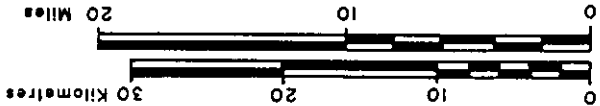
The current status of the Swan claims is indicated in Table 1, and their locations are shown on Figure 2. The claims, located in the Similkameen Mining Division were staked in August 1989, May 1990 and March 1991 and are 100 percent owned by Fairfield Minerals Ltd.

MAP AREA



CORDILLEAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

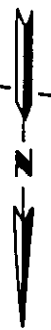
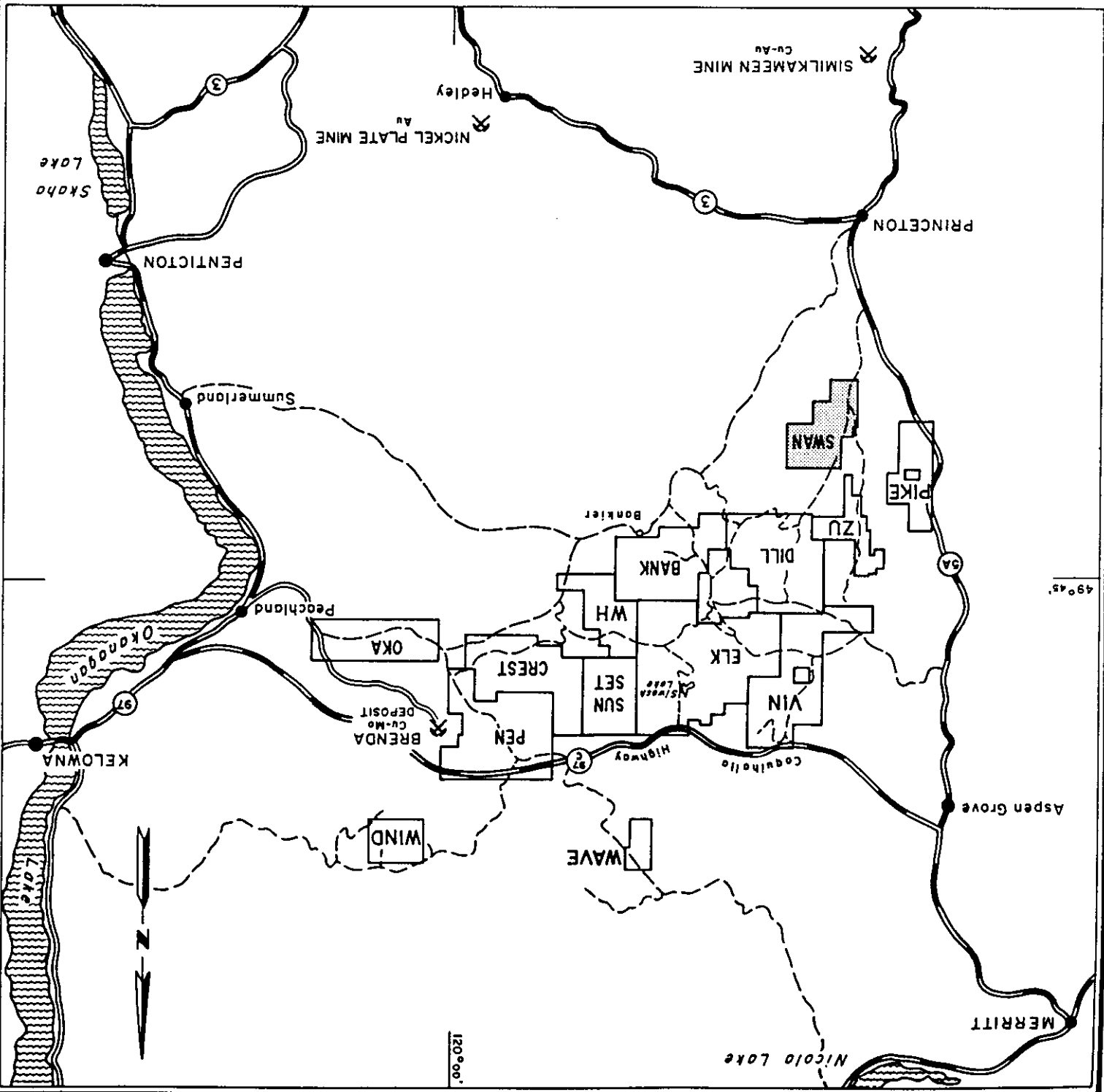
SCALE 1:500,000



SOUTHERN BRITISH COLUMBIA
OKANAGAN AREA, NTS 82E/92H

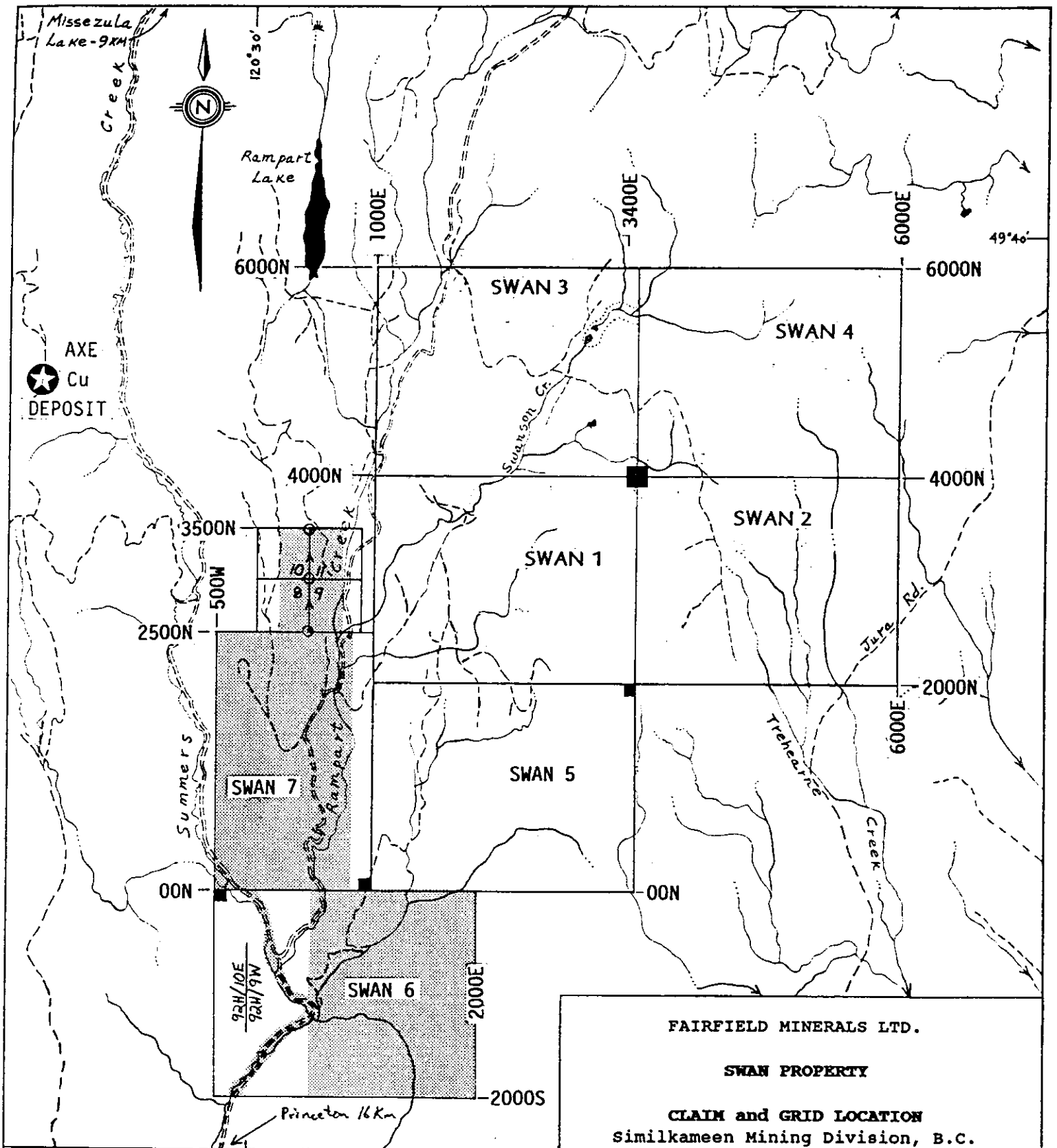
PROPERTY LOCATION MAP

FAIRFIELD MINERALS LTD.



120°00'

49°45'



FAIRFIELD MINERALS LTD.
 SWAN PROPERTY
 CLAIM and GRID LOCATION
 Similkameen Mining Division, B.C.
 NTS: 92H/9W, 10E
 Scale: 1:50,000

LEGEND

- Legal Corner Post for 4-Post Claim
- → ○ Initial and/or Final Posts, Location Line Direction for 2-Post Claim
- ▨ 1991 Soil Geochemical Grid
- 800W Grid Line Number
- - - Access Roads

By: Cordilleran Engineering Ltd.
 Vancouver, B.C.
 March, 1992

Figure 2

Table 1:

CLAIM STATUS

NTS: 92H/9W,10E Similkameen Mining Division, BC

<u>CLAIM</u>	<u>UNITS</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>
SWAN 1	20	249597	11 AUG. 1995
SWAN 2	20	249598	13 AUG. 1995
SWAN 3	20	249599	12 AUG. 1996
SWAN 4	20	249600	14 AUG. 1995
SWAN 5	20	249806	18 MAY 1995
SWAN 6	20	250060	1 APR. 1995
SWAN 7	15	250061	1 APR. 1995
SWAN 8	2-post	250062	31 MAR. 1997
SWAN 9	2-post	250063	31 MAR. 1997
SWAN 10	2-post	250064	31 MAR 1997
SWAN 11	2-post	250065	31 MAR 1997

3.3 HISTORY

Several companies conducted work in the area of the Swan claims from 1970 to 1982 which included prospecting, geological mapping, soil sampling, geophysics, trenching and percussion drilling. These programs explored for copper mineralization similar to that defined on the Axe property adjoining to the west, where a significant copper reserve, with minor molybdenum, has been outlined by considerable diamond and percussion drilling. Tentative reserve estimates only have been released using various factors to adjust for poor core recoveries and erratic distribution of mineralization. Figures published in 1973 indicated a total reserve of about 60 million tons grading roughly 0.45% Cu, 0.012% Mo in three zones.

Previous exploration in the area of the Swan claims failed to discover any significant copper, however, the gold potential was not pursued at that time. During 1987 Fairfield Minerals Ltd. undertook a reconnaissance sampling program in the region and obtained a strongly anomalous gold value from the sediment near the mouth of Swanson Creek. Subsequent prospecting of the drainage area revealed favourable geology for gold-bearing vein deposits and so the initial Swan 1-4 claims were staked to cover the area. Grid soil sampling was conducted during 1989 and 1990 with fill-in sampling around areas of anomalous gold. A total of 3542 samples were collected on the Swan 1-5 claims; 1989 samples (1030) were analyzed for gold, silver, copper and zinc; 1990 samples (2512) for gold only.

3.4 1991 EXPLORATION PROGRAM

The 1991 program involved the staking of Swan 6-11 claims (39 units) and soil sampling of this area on a wide spaced grid (400m x 50m). A reconnaissance-style contour sampling line was used in one area where steep terrain prohibited regular-spaced grid lines.

4.0

G E O L O G Y

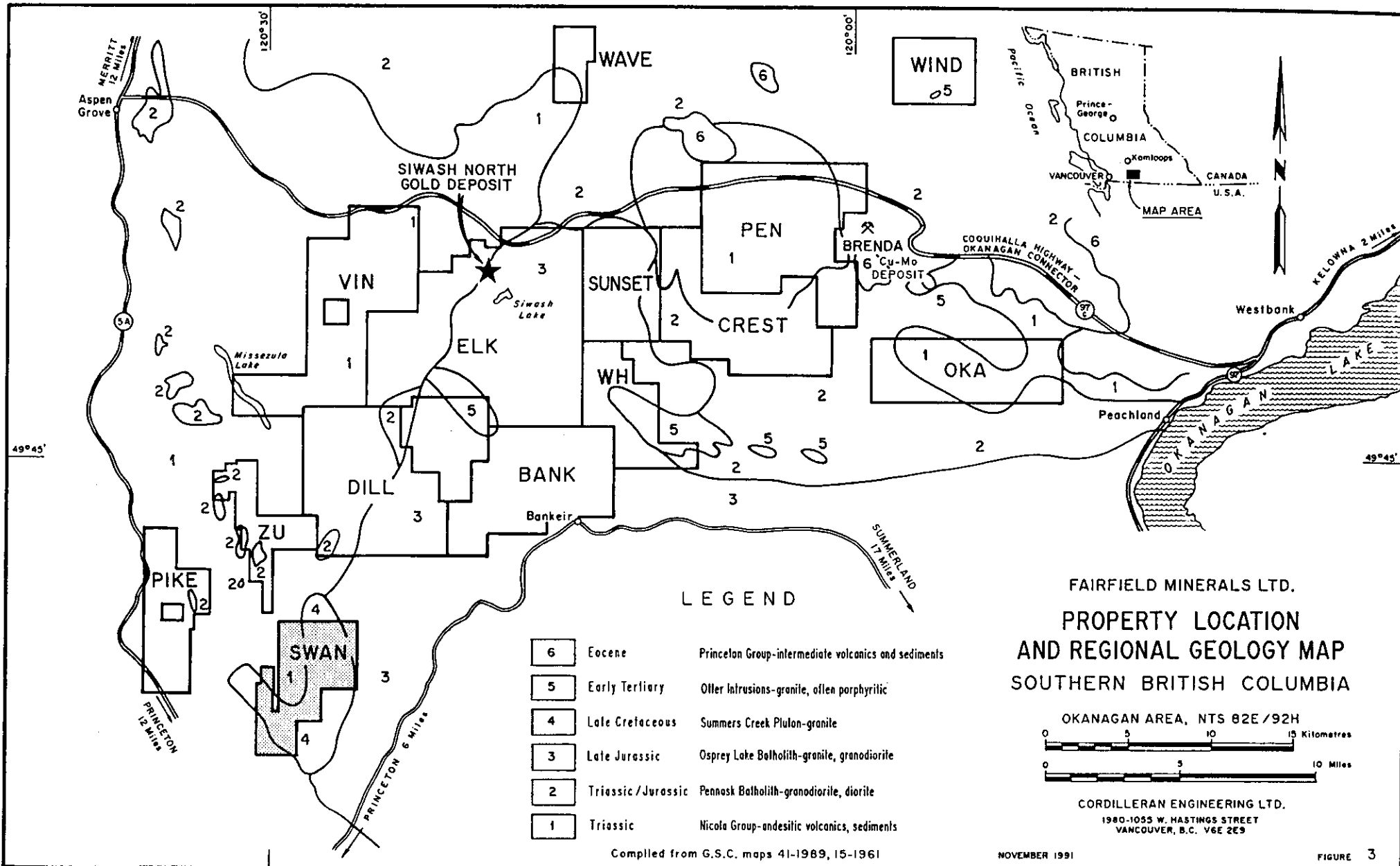
4.1 **REGIONAL GEOLOGY** (Figure 3)

The Swan property regional geology is illustrated on the northeast part of GSC Map 41-1989, Hope, mapped by J.W.H.Monger, 1989 which is condensed on Figure 3. The claims straddle the contact between the Summers Creek Pluton on the east and Nicola volcanic rocks on the west. The pluton comprises reddish, coarse-grained granite of Late Cretaceous age. The Upper Triassic Nicola unit includes massive basalt flows and breccias with lesser interlayered tuff, volcanic siltstone and impure limestone. Several phases of diorite to monzonite dykes may be part of the Nicola magmatic suite.

4.2 **PROPERTY GEOLOGY AND MINERALIZATION**

The geology of the property was not mapped during this program although some observations have been made during the course of the work. Bedrock exposures are scarce in many areas so geological contacts are not readily visible.

A large fault zone trends north-south in Summers Creek valley along the west side of the property. Swanson Creek follows a very linear southwest trend which may also be caused by a major structural break. On the Axe property to the west, volcanic and intrusive rocks are intensely fractured with variable and irregular zones of alteration and mineralization. At the south end of the Swan 7 claim along Rampart Creek canyon are extensive outcrops of strongly sheared, intensely altered granite near the southern contact of the pluton. Alteration includes abundant sericite and clay minerals with disseminated pyrite which produces bright yellow to orange oxidation zones in outcrop. Soil sampling in this area returned several anomalous copper and gold values.



5.0

G E O C H E M I S T R Y

5.1 SAMPLING PROCEDURE

A total of 458 soil samples were collected on the Swan 6-11 claims in 1991. Samples were spaced predominantly at 400m by 50m to cover a widespread area in an attempt to identify anomalous regions which would be further defined by subsequent fill-in sampling. On the west side of the Swan 6 claim a steep-sided canyon along Summers Creek necessitated a contour-type sample line along the base of the western slope with sample stations at 50m spacings.

East-west claim lines served as baselines for the grid. They were measured with a hip chain, marked with pink flagging and 50m intervals marked with grid-numbered, waterproof Tyvek tags plus pink and blue flagging. North-south soil lines were established using hip chain and compass, and soils stations at 50m intervals were similarly identified with tags and orange and blue flagging. Samples were collected from the "B" horizon with mattocks and placed in Kraft paper bags marked with the appropriate grid coordinates. The samples were sent to Acme Analytical Laboratories Ltd. in Vancouver where they were dried, sieved and the -80 mesh fraction used for gold and copper analyses. Each sample was analyzed for gold by atomic absorption following aqua regia digestion and MIBK extraction from a 10 gram sample. Copper was analyzed by ICP following digestion of a .5 gram sample with a solution of HCL-HNO₃-H₂O.

5.2 RESULTS (Plate 1)

The 1991 gold and copper soil geochemical results are plotted on Plate 1. The 1989 and 1990 results are included for reference (see 1989 and 1990 Swan Assessment Reports). Values less than 5 ppb Au and 50 ppm Cu are considered to be background and are not plotted, however, all 1991 soil sample analytical certificates are appended in Section 10.0.

Based upon results of previous sampling on the property and from other properties in the area, values greater than 15 ppb Au and 100 ppm Cu are considered to be anomalous and may justify follow-up sampling. The 1991 wide-spaced grid sampling on the Swan 6-11 claims identified three areas of clustered copper anomalies with locally coincident gold enrichment.

The strongest copper anomaly extends north to northwest for more than 1000m on lines 200E and 600E between 400S and 700N. Several copper values are greater than 300 ppm , up to a high of 4596 ppm. Gold values, up to 120 ppb, coincide well with copper. This area is underlain by sheared, altered, pyritic granite with potential to host vein or stockwork mineralization.

A smaller, north to northwest trending copper anomaly extends about 500 metres across lines 0E and 350E from 2500N to 3000N. Weakly anomalous gold values correspond to the higher copper values. This area adjoins the Axe property to the west where copper mineralization occurs in fractures and veinlets cutting volcanic and sub-volcanic rocks.

The third area of clustered, moderately anomalous copper values is at the south end of the grid on the reconnaissance contour sample line, defining a northerly copper trend about 500 metres long with local associated gold highs. This area lies along the Summers Creek fault, a major north-south regional structure.

Based upon the large areas of anomalous copper and gold identified by wide-spaced soil lines and known mineralization in the area, follow up soil sampling and prospecting is definitely warranted.

6.0

P E R S O N N E L

Days worked - 1991

PERSONNEL:

J.R.Cormier, Geologist
Vancouver, BC

Oct 17-20

4 days sampling

M. Steiner, Sampler
Coquitlam, BC

Oct 17-20

4 days sampling

J.Tindle, Sampler
Whistler, BC

Oct 17-20

4 days sampling

J.D.Rowe, Geologist
North Vancouver, BC

3 days report preparation

7.0 STATEMENT OF EXPENDITURES

<u>PROFESSIONAL, TECHNICAL & GEOLOGICAL SERVICES</u>	\$ 3,050
<u>SALARIES & BENEFITS</u>	1,550
<u>FOOD, CAMP ACCOMMODATION & TRAVEL</u>	730
<u>GEOCHEMICAL ANALYSIS</u>	3,505
<u>RENTALS: TRUCK, RADIOPHONE, COMPUTER, ETC.</u>	1,400
<u>FIELD SUPPLIES, FREIGHT, TELEPHONE, INSURANCE</u>	<u>415</u>
TOTAL	<u>\$10,650</u>

8.0

R E F E R E N C E S

B.C. MINISTRY OF ENERGY MINES AND PETROLEUM RESOURCES:

Minfile 92H/NE

CORMIER, J.R.:

1990: 1990 Geochemical (Assessment) report on the Swan 1-5 Mineral Claims.

MONGER, J.W.H.:

1989: Geology, Hope, British Columbia, GSC Map 41-1989, scale 1:250,000

PRETO, V.A.:

1979: Geology of the Nicola Group between Merritt and Princeton, B.C.M.M. Bulletin 69.

RICE, H.M.A.:

1947: Geology and Mineral Deposits of the Princeton Map-Area, B.C., Geol.Surv. Can. Memoir 243.

ROWE, J.D.:

1989: 1989 Geochemical (Assessment) Report on the Swan 1-4 Mineral Claims

9.0

STATEMENT OF QUALIFICATIONS

I, Jeffrey D. Rowe, of North Vancouver, British Columbia hereby certify that:

1. I am a geologist residing at 2596 Carnation Street, and employed by Cordilleran Engineering Ltd. of 1980 - 1055 West Hastings Street, Vancouver, British Columbia V6E 2E9.
2. I have received a B.Sc. degree in Honours Geology from the University of British Columbia, Vancouver B.C. in 1975.
3. I have practiced my profession for eighteen years in British Columbia, Yukon and Quebec.
4. I am the author of this report and supervisor of the field work conducted on the Swan claims during the period October 17-20, 1991.

CORDILLERAN ENGINEERING LTD.



J. D. Rowe, B.Sc.
Geologist

JDR/z
May, 1992
Vancouver, B.C.

10.0

A N A L Y T I C A L R E S U L T S

1991 Soil Samples

GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT SWAN #1 FILE # 91-5207 Page 1

1980 - 1055 W. Hastings S, Vancouver BC V6E 2E9

SAMPLE#	Cu ppm	Au* ppb
500W 2500N	108	5.0
500W 2450N	36	1.7
500W 2400N	14	.2
500W 2350N	25	1.3
500W 2300N	40	.9
500W 2250N	40	.9
500W 2200N	20	.6
500W 2150N	36	2.7
500W 2100N	28	.7
500W 2050N	37	.2
500W 2000N	41	.8
500W 1950N	124	1.4
500W 1900N	202	8.3
500W 1850N	185	4.0
500W 1800N	55	1.8
500W 1750N	53	.5
500W 1700N	44	.3
500W 1650N	31	5.2
500W 1600N	12	.6
500W 1550N	12	3.5
500W 1500N	14	3.3
500W 1450N	16	.6
500W 1400N	23	4.5
RE 500W 1600N	12	.8
500W 1350N	20	16.9
500W 1300N	20	1.9
500W 1250N	18	1.5
500W 1200N	27	2.2
500W 1150N	37	4.0
500W 1100N	83	3.7
500W 1050N	34	2.5
500W 1000N	94	3.0
500W 950N	105	5.6
500W 900N	35	2.0
500W 850N	35	1.4
500W 800N	45	.7
500W 750N	89	.7
STANDARD G-1	-	.4
STANDARD C/AU-S	59	45.7

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: OCT 22 1991

DATE REPORT MAILED: *Oct 25/91* RECEIVED

SIGNED BY.....*C. Leong*.....D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

OCT 28 1991

SAMPLE#	Cu ppm	Au* ppb
500W 700N	32	.2
500W 650N	62	1.2
500W 600N	91	.5
500W 550N	13	.6
500W 500N	38	1.5
500W 450N	14	.2
500W 400N	19	.7
500W 350N	11	.2
500W 300N	7	.9
500W 250N	7	1.0
500W 200N	124	3.2
250W 2500N	229	66.4
250W 2450N	96	12.8
250W 2400N	25	1.4
250W 2350N	25	1.5
250W 2300N	90	4.2
250W 2250N	42	.4
250W 2200N	33	.2
250W 2150N	45	4.6
250W 2100N	36	1.1
250W 2050N	27	2.9
250W 2000N	78	3.5
250W 1950N	199	5.6
250W 1900N	60	5.6
250W 1850N	39	1.9
250W 1800N	163	4.8
250W 1750N	97	3.8
250W 1700N	25	6.7
250W 1650N	42	2.7
250W 1600N	8	3.3
250W 1550N	19	.3
250W 1500N	16	.2
RE 250W 1700N	26	8.6
250W 1450N	22	.8
250W 1400N	20	1.0
250W 1350N	27	1.0
250W 1300N	26	.2
STANDARD G-1	-	.2
STANDARD C/AU-S	60	46.7

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
250W 1250N	21	9.6
250W 1200N	39	4.5
250W 1150N	23	1.6
250W 1100N	59	4.2
250W 1050N	36	1.7
250W 1000N	28	1.4
250W 950N	101	.7
250W 900N	23	.5
250W 850N	20	2.0
250W 800N	18	1.8
250W 750N	23	.6
250W 700N	27	.3
250W 650N	27	1.0
250W 600N	13	1.5
250W 550N	18	.3
250W 500N	20	10.2
250W 450N	12	.9
250W 400N	15	.5
250W 350N	25	4.7
250W 300N	55	.4
250W 250N	39	2.2
250W 200N	57	2.6
250W 150N	168	9.1
250W 100N	92	3.6
250W 50N	91	2.2
250W 00N	31	3.3
00E 3500N	39	1.7
00E 3450N	53	19.7
00E 3400N	54	6.7
00E 3350N	46	2.0
00E 3300N	41	3.7
00E 3250N	63	6.5
00E 3200N	63	3.0
00E 3150N	50	1.5
00E 3100N	40	1.2
RE 00E 3300N	42	3.9
00E 3050N	36	1.6
STANDARD G-1	-	.3
STANDARD C/AU-S	61	51.0

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
00E 3000N	86	4.5
00E 2950N	200	11.1
00E 2900N	243	10.1
00E 2850N	377	25.9
00E 2800N	372	16.8
00E 2750N	113	6.0
00E 2700N	83	1.9
00E 2650N	98	1.5
00E 2600N	51	.2
00E 2550N	68	4.9
00E 2500N	46	2.1
200E 2500N	18	.4
200E 2450N	20	9.3
200E 2400N	41	.7
200E 2350N	37	1.4
200E 2300N	26	24.4
200E 2250N	57	2.6
200E 2200N	37	1.0
200E 2150N	37	3.0
200E 2100N	38	5.5
200E 2050N	34	1.2
200E 2000N	29	3.4
200E 1950N	38	2.0
200E 1900N	29	3.0
200E 1850N	35	.3
200E 1800N	54	2.0
200E 1750N	42	.3
200E 1700N	35	1.3
200E 1650N	31	1.3
200E 1600N	30	4.1
200E 1550N	31	1.9
200E 1500N	40	1.7
200E 1450N	32	1.5
200E 1400N	36	1.3
RE 200E 1550N	33	1.1
200E 1350N	34	1.4
200E 1300N	37	.5
STANDARD G-1	-	.2
STANDARD C/AU-S	59	50.8

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
200E 1250N	36	7.4
200E 1200N	33	15.9
200E 1150N	38	1.1
200E 1100N	73	6.4
200E 1050N	37	1.9
200E 1000N	43	36.9
200E 950N	50	100.0
200E 900N	39	12.7
200E 850N	34	8.5
200E 800N	32	2.6
200E 750N	21	3.3
200E 700N	275	3.8
200E 650N	36	5.0
200E 600N	102	5.7
200E 550N	511	6.0
200E 500N	148	8.6
200E 450N	132	28.5
200E 400N	316	90.0
200E 350N	79	18.9
200E 300N	346	110.0
200E 250N	155	36.4
200E 200N	230	50.5
200E 150N	164	5.1
200E 100N	859	3.1
200E 50N	4596	12.4
200E 00N	137	2.2
350E 3500N	40	1.3
350E 3450N	40	2.8
350E 3400N	30	6.7
350E 3350N	30	12.0
350E 3300N	28	1.3
350E 3250N	37	2.9
350E 3200N	43	7.4
RE 350E 3400N	30	7.3
350E 3150N	66	9.7
350E 3100N	46	1.7
350E 3050N	45	2.8
STANDARD G-1	-	.4
STANDARD C/AU-S	59	50.9

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
350E 3000N	34	2.1
350E 2950N	17	1.4
350E 2900N	32	1.1
350E 2850N	56	4.2
350E 2800N	36	15.3
350E 2750N	38	12.7
350E 2700N	31	12.2
350E 2650N	120	2.8
350E 2600N	53	3.2
RE 600E 3400N	38	1.1
350E 2550N	122	3.2
350E 2500N	71	3.6
600E 3500N	64	4.4
600E 3450N	21	1.1
600E 3400N	38	2.3
600E 3350N	40	1.5
600E 3300N	25	4.6
600E 3250N	46	3.4
600E 3200N	48	49.9
600E 3150N	29	3.3
600E 3100N	30	4.3
600E 3050N	33	.7
600E 3000N	33	2.1
600E 2950N	45	3.7
600E 2900N	38	9.3
600E 2850N	37	18.2
600E 2800N	96	35.5
600E 2750N	20	2.5
600E 2700N	87	14.6
600E 2650N	37	1.8
600E 2600N	29	1.5
600E 2550N	45	2.7
600E 2500N	100	8.4
600E 2450N	25	1.1
600E 2400N	16	.2
600E 2350N	82	2.0
600E 2300N	63	2.7
STANDARD G-1	-	.4
STANDARD C/AU-S	60	48.1

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
600E 2250N	40	3.2
600E 2200N	38	.4
600E 2150N	41	.8
600E 2100N	39	1.5
600E 2050N	33	1.5
600E 2000N	41	1.6
600E 1950N	28	2.1
600E 1900N	51	.7
600E 1850N	20	.7
600E 1800N	20	.7
600E 1750N	24	2.2
600E 1700N	24	1.3
600E 1650N	28	.2
600E 1600N	39	.5
600E 1550N	33	1.6
600E 1500N	26	1.3
600E 1450N	19	.2
600E 1400N	20	.9
600E 1350N	32	.2
600E 1300N	28	2.6
600E 1250N	25	8.3
RE 600E 1400N	20	.9
600E 1200N	35	2.8
600E 1150N	29	1.4
600E 1100N	32	1.0
600E 1050N	24	9.1
600E 1000N	23	2.5
600E 950N	25	4.4
600E 900N	14	2.0
600E 850N	23	1.0
600E 800N	27	1.0
600E 750N	104	7.8
600E 700N	80	1.8
600E 650N	99	5.4
600E 600N	63	18.9
600E 550N	86	120.0
600E 500N	100	8.4
STANDARD G-1	-	.3
STANDARD C/AU-S	59	46.4

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
600E 450N	98	15.9
600E 400N	48	20.8
600E 350N	35	2.9
600E 300N	38	6.6
600E 250N	31	6.9
RE 600E 50S	27	4.5
600E 200N	52	2.5
600E 150N	105	90.0
600E 100N	66	10.0
600E 00N	61	5.4
600E 50S	30	3.0
600E 100S	108	7.1
600E 150S	61	7.3
600E 200S	56	4.4
600E 250S	54	7.5
600E 300S	65	5.4
600E 350S	127	9.3
600E 400S	32	9.4
600E 450S	32	4.7
600E 500S	32	2.5
600E 550S	31	.7
600E 600S	104	3.4
600E 650S	102	1.5
600E 700S	79	100.0
600E 750S	20	90.0
600E 800S	38	7.2
600E 850S	41	1.9
600E 900S	13	2.2
600E 950S	16	6.1
600E 1000S	18	10.1
600E 1050S	18	7.6
600E 1100S	25	4.7
600E 1150S	20	3.1
600E 1200S	16	15.0
600E 1250S	20	.8
600E 1300S	17	1.3
600E 1350S	8	.6
STANDARD G-1	-	.5
STANDARD C/AU-S	60	48.0

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
600E 1400S	8	.5
600E 1450S	24	.2
RE 600E 1700S	8	.2
600E 1500S	29	.6
600E 1550S	22	.2
600E 1600S	17	.2
600E 1650S	12	.2
600E 1700S	8	.2
600E 1750S	14	1.4
600E 1800S	9	14.6
600E 1850S	11	.8
600E 1900S	8	5.5
600E 1950S	6	.2
600E 2000S	5	.2
1000E 50S	36	.6
1000E 100S	53	3.2
1000E 150S	39	1.1
1000E 200S	42	1.4
1000E 250S	34	.2
1000E 300S	30	4.1
1000E 350S	70	6.4
1000E 400S	28	3.4
1000E 450S	55	26.4
1000E 500S	43	5.0
1000E 550S	65	6.5
1000E 600S	25	.7
1000E 650S	38	1.0
1000E 700S	35	3.2
1000E 750S	33	.2
1000E 800S	29	.5
1000E 850S	32	2.9
1000E 900S	24	3.7
1000E 950S	29	6.5
1000E 1000S	16	3.0
1000E 1050S	18	3.3
1000E 1100S	19	.8
1000E 1150S	31	1.7
STANDARD G-1	-	.7
STANDARD C/AU-S	58	45.7

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
1000E 1200S	51	2.7
1000E 1250S	8	.3
1000E 1300S	19	1.0
1000E 1400S	14	.9
1000E 1450S	13	1.0
1000E 1500S	18	7.9
1000E 1550S	17	1.9
1000E 1600S	10	.3
1000E 1650S	7	.2
1000E 1700S	6	.6
1000E 1750S	18	.3
1000E 1800S	22	2.7
1000E 1850S	30	.8
1000E 1900S	28	4.1
1000E 2000S	24	1.9
1400E 00N	29	5.8
1400E 50S	78	6.8
RE 1400E 250S	39	1.9
1400E 100S	29	1.6
1400E 150S	15	2.1
1400E 200S	12	2.8
1400E 250S	37	2.3
1400E 300S	25	1.1
1400E 350S	24	2.3
1400E 400S	39	2.0
1400E 450S	38	6.4
1400E 500S	118	2.9
1400E 550S	33	1.1
1400E 600S	44	2.5
1400E 650S	30	.7
1400E 700S	24	.8
1400E 750S	15	1.3
1400E 800S	18	.4
1400E 850S	28	1.3
1400E 900S	12	.5
1400E 950S	10	23.4
1400E 1000S	16	1.2
STANDARD G-1	-	.3
STANDARD C/AU-S	58	45.7

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
1400E 1050S	26	3.1
1400E 1100S	8	.5
1400E 1150S	43	.2
1400E 1200S	30	.9
1400E 1250S	25	5.1
1400E 1300S	47	3.7
1400E 1350S	30	1.1
1400E 1400S	27	5.8
1400E 1450S	26	5.5
1400E 1500S	31	.4
1400E 1550S	32	2.5
1400E 1600S	14	2.8
1400E 1650S	11	1.5
1400E 1700S	17	.5
1400E 1750S	23	7.6
1400E 1800S	11	.2
1400E 1850S	25	12.8
1400E 1900S	13	1.8
1400E 1950S	11	2.1
1400E 2000S	10	20.3
1800E 50S	17	1.4
1800E 100S	14	1.6
1800E 150S	23	1.6
RE 1400E 1950S	11	.5
1800E 200S	32	2.1
1800E 250S	17	.5
1800E 300S	7	.2
1800E 350S	14	3.6
1800E 400S	17	5.0
1800E 450S	16	1.2
1800E 500S	18	.7
1800E 550S	23	5.3
1800E 600S	23	16.0
1800E 650S	21	1.2
1800E 700S	11	.2
1800E 750S	21	2.3
1800E 800S	19	1.6
STANDARD G-1	-	.6
STANDARD C/AU-S	59	51.0

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
1800E 850S	17	1.3
1800E 900S	18	4.2
1800E 950S	13	2.1
1800E 1000S	34	4.7
1800E 1050S	15	.5
1800E 1100S	16	.3
1800E 1150S	25	3.8
RE 1800E 1400S	31	.9
1800E 1200S	113	4.1
1800E 1250S	19	.2
1800E 1300S	11	1.1
1800E 1350S	19	.2
1800E 1400S	30	.5
1800E 1450S	19	1.0
1800E 1500S	21	1.0
1800E 1550S	28	3.0
1800E 1600S	37	2.0
1800E 1650S	24	.3
1800E 1700S	19	.7
1800E 1750S	16	.2
1800E 1800S	33	2.4
1800E 1850S	22	.2
1800E 1900S	18	.6
1800E 2000S	17	1.7
S1 00S	22	1.1
S1 100S	15	.6
S1 150S	22	1.4
S1 200S	68	4.1
S1 300S	39	2.8
S1 350S	26	.6
S1 400S	45	4.4
S1 450S	8	.6
S1 500S	14	.3
S1 550S	159	11.2
S1 600S	18	.2
S1 900S	52	1.1
S1 950S	137	4.3
STANDARD G-1	-	.2
STANDARD C/AU-S	58	47.8

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
S1 1000S	200	4.1
S1 1050S	155	3.4
S1 1100S	74	10.0
S1 1150S	240	6.1
S1 1200S	193	5.5
S1 1250S	119	8.9
S1 1300S	87	15.2
RE S1 1850S	76	9.5
S1 1350S	82	2.8
S1 1400S	42	1.3
S1 1500S	96	74.1
S1 1550S	112	6.5
S1 1600S	89	190.0
S1 1650S	95	22.9
S1 1700S	83	13.3
S1 1750S	105	13.7
S1 1800S	102	8.8
S1 1850S	82	10.2
S1 1900S	91	15.2
S1 2000S	158	2.5
S1 2050S	102	12.8
S1 2100S	55	11.1
S1 2250S	102	25.6
S1 2300S	70	14.2
S1 2400S	167	5.7
S1 2450S	94	6.7
S1 2535S	132	5.7
STANDARD G-1	-	.3
STANDARD C/AU-S	62	50.4

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

**ACME ANALYTICAL LABORATORIES LTD.**

852 E. Hastings St., Vancouver, B.C., CANADA V6A 1R6

Phone: (604) 253-3158 Fax: (604) 253-1716

Our GST tax number: R100035377

**CORDILLERAN ENGINEERING LTD.**

1980 - 1055 W. Hastings St.

Vancouver, BC

V6E 2E9

File: 91-5207

Date: Oct 25 1991

RECEIVED

OCT 28 1991

QTY	ASSAY	PRICE	AMOUNT
458	GEOCHEM CU ANALYSIS BY ICP @	2.25	1030.50
458	GEOCHEM AU ANALYSIS BY ACID LEACH (10 gm) @	4.50	2061.00
458	SOIL SAMPLE PREPARATION @	0.90	412.20
			<hr/>
	GREYHOUND W/B# 13168030481		3503.70
			49.14
			<hr/>
		GST Taxable	3552.84
		7.00 % GST	248.70
			<hr/>
		TOTAL	3801.54

Project: SWAN #1

Purchase Order #: 1167

UNIT PRICE REFLECTS 10% DISCOUNT

Please pay last amount shown. Return one copy of this invoice with payment.

TERMS: Net two weeks. 1.5 % per month charged on overdue accounts.

[COPY 2]

GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT SWAN #1 FILE # 91-5207 Page 1
 1980 - 1055 W. Hastings S, Vancouver BC V6E 2E9

SAMPLE#	Cu ppm	Au* ppb
500W 2500N	108	5.0
500W 2450N	36	1.7
500W 2400N	14	.2
500W 2350N	25	1.3
500W 2300N	40	.9
500W 2250N	40	.9
500W 2200N	20	.6
500W 2150N	36	2.7
500W 2100N	28	.7
500W 2050N	37	.2
500W 2000N	41	.8
500W 1950N	124	1.4
500W 1900N	202	8.3
500W 1850N	185	4.0
500W 1800N	55	1.8
500W 1750N	53	.5
500W 1700N	44	.3
500W 1650N	31	5.2
500W 1600N	12	.6
500W 1550N	12	3.5
500W 1500N	14	3.3
500W 1450N	16	.6
500W 1400N	23	4.5
RE 500W 1600N	12	.8
500W 1350N	20	16.9
500W 1300N	20	1.9
500W 1250N	18	1.5
500W 1200N	27	2.2
500W 1150N	37	4.0
500W 1100N	83	3.7
500W 1050N	34	2.5
500W 1000N	94	3.0
500W 950N	105	5.6
500W 900N	35	2.0
500W 850N	35	1.4
500W 800N	45	.7
500W 750N	89	.7
STANDARD G-1	-	.4
STANDARD C/AU-S	59	45.7

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: OCT 22 1991

DATE REPORT MAILED: Oct 25/91

RECEIVED
 OCT 28 1991

SIGNED BY..... *C. King* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Cu ppm	Au* ppb
500W 700N	32	.2
500W 650N	62	1.2
500W 600N	91	.5
500W 550N	13	.6
500W 500N	38	1.5
500W 450N	14	.2
500W 400N	19	.7
500W 350N	11	.2
500W 300N	7	.9
500W 250N	7	1.0
500W 200N	124	3.2
250W 2500N	229	66.4
250W 2450N	96	12.8
250W 2400N	25	1.4
250W 2350N	25	1.5
250W 2300N	90	4.2
250W 2250N	42	.4
250W 2200N	33	.2
250W 2150N	45	4.6
250W 2100N	36	1.1
250W 2050N	27	2.9
250W 2000N	78	3.5
250W 1950N	199	5.6
250W 1900N	60	5.6
250W 1850N	39	1.9
250W 1800N	163	4.8
250W 1750N	97	3.8
250W 1700N	25	6.7
250W 1650N	42	2.7
250W 1600N	8	3.3
250W 1550N	19	.3
250W 1500N	16	.2
RE 250W 1700N	26	8.6
250W 1450N	22	.8
250W 1400N	20	1.0
250W 1350N	27	1.0
250W 1300N	26	.2
STANDARD G-1	-	.2
STANDARD C/AU-S	60	46.7

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
250W 1250N	21	9.6
250W 1200N	39	4.5
250W 1150N	23	1.6
250W 1100N	59	4.2
250W 1050N	36	1.7
250W 1000N	28	1.4
250W 950N	101	.7
250W 900N	23	.5
250W 850N	20	2.0
250W 800N	18	1.8
250W 750N	23	.6
250W 700N	27	.3
250W 650N	27	1.0
250W 600N	13	1.5
250W 550N	18	.3
250W 500N	20	10.2
250W 450N	12	.9
250W 400N	15	.5
250W 350N	25	4.7
250W 300N	55	.4
250W 250N	39	2.2
250W 200N	57	2.6
250W 150N	168	9.1
250W 100N	92	3.6
250W 50N	91	2.2
250W 00N	31	3.3
00E 3500N	39	1.7
00E 3450N	53	19.7
00E 3400N	54	6.7
00E 3350N	46	2.0
00E 3300N	41	3.7
00E 3250N	63	6.5
00E 3200N	63	3.0
00E 3150N	50	1.5
00E 3100N	40	1.2
RE 00E 3300N	42	3.9
00E 3050N	36	1.6
STANDARD G-1	-	.3
STANDARD C/AU-S	61	51.0

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
00E 3000N	86	4.5
00E 2950N	200	11.1
00E 2900N	243	10.1
00E 2850N	377	25.9
00E 2800N	372	16.8
00E 2750N	113	6.0
00E 2700N	83	1.9
00E 2650N	98	1.5
00E 2600N	51	.2
00E 2550N	68	4.9
00E 2500N	46	2.1
200E 2500N	18	.4
200E 2450N	20	9.3
200E 2400N	41	.7
200E 2350N	37	1.4
200E 2300N	26	24.4
200E 2250N	57	2.6
200E 2200N	37	1.0
200E 2150N	37	3.0
200E 2100N	38	5.5
200E 2050N	34	1.2
200E 2000N	29	3.4
200E 1950N	38	2.0
200E 1900N	29	3.0
200E 1850N	35	.3
200E 1800N	54	2.0
200E 1750N	42	.3
200E 1700N	35	1.3
200E 1650N	31	1.3
200E 1600N	30	4.1
200E 1550N	31	1.9
200E 1500N	40	1.7
200E 1450N	32	1.5
200E 1400N	36	1.3
RE 200E 1550N	33	1.1
200E 1350N	34	1.4
200E 1300N	37	.5
STANDARD G-1	-	.2
STANDARD C/AU-S	59	50.8

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
200E 1250N	36	7.4
200E 1200N	33	15.9
200E 1150N	38	1.1
200E 1100N	73	6.4
200E 1050N	37	1.9
200E 1000N	43	36.9
200E 950N	50	100.0
200E 900N	39	12.7
200E 850N	34	8.5
200E 800N	32	2.6
200E 750N	21	3.3
200E 700N	275	3.8
200E 650N	36	5.0
200E 600N	102	5.7
200E 550N	511	6.0
200E 500N	148	8.6
200E 450N	132	28.5
200E 400N	316	90.0
200E 350N	79	18.9
200E 300N	346	110.0
200E 250N	155	36.4
200E 200N	230	50.5
200E 150N	164	5.1
200E 100N	859	3.1
200E 50N	4596	12.4
200E 00N	137	2.2
350E 3500N	40	1.3
350E 3450N	40	2.8
350E 3400N	30	6.7
350E 3350N	30	12.0
350E 3300N	28	1.3
350E 3250N	37	2.9
350E 3200N	43	7.4
RE 350E 3400N	30	7.3
350E 3150N	66	9.7
350E 3100N	46	1.7
350E 3050N	45	2.8
STANDARD G-1	-	.4
STANDARD C/AU-S	59	50.9

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
350E 3000N	34	2.1
350E 2950N	17	1.4
350E 2900N	32	1.1
350E 2850N	56	4.2
350E 2800N	36	15.3
350E 2750N	38	12.7
350E 2700N	31	12.2
350E 2650N	120	2.8
350E 2600N	53	3.2
RE 600E 3400N	38	1.1
350E 2550N	122	3.2
350E 2500N	71	3.6
600E 3500N	64	4.4
600E 3450N	21	1.1
600E 3400N	38	2.3
600E 3350N	40	1.5
600E 3300N	25	4.6
600E 3250N	46	3.4
600E 3200N	48	49.9
600E 3150N	29	3.3
600E 3100N	30	4.3
600E 3050N	33	.7
600E 3000N	33	2.1
600E 2950N	45	3.7
600E 2900N	38	9.3
600E 2850N	37	18.2
600E 2800N	96	35.5
600E 2750N	20	2.5
600E 2700N	87	14.6
600E 2650N	37	1.8
600E 2600N	29	1.5
600E 2550N	45	2.7
600E 2500N	100	8.4
600E 2450N	25	1.1
600E 2400N	16	.2
600E 2350N	82	2.0
600E 2300N	63	2.7
STANDARD G-1	-	.4
STANDARD C/AU-S	60	48.1

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
600E 2250N	40	3.2
600E 2200N	38	.4
600E 2150N	41	.8
600E 2100N	39	1.5
600E 2050N	33	1.5
600E 2000N	41	1.6
600E 1950N	28	2.1
600E 1900N	51	.7
600E 1850N	20	.7
600E 1800N	20	.7
600E 1750N	24	2.2
600E 1700N	24	1.3
600E 1650N	28	.2
600E 1600N	39	.5
600E 1550N	33	1.6
600E 1500N	26	1.3
600E 1450N	19	.2
600E 1400N	20	.9
600E 1350N	32	.2
600E 1300N	28	2.6
600E 1250N	25	8.3
RE 600E 1400N	20	.9
600E 1200N	35	2.8
600E 1150N	29	1.4
600E 1100N	32	1.0
600E 1050N	24	9.1
600E 1000N	23	2.5
600E 950N	25	4.4
600E 900N	14	2.0
600E 850N	23	1.0
600E 800N	27	1.0
600E 750N	104	7.8
600E 700N	80	1.8
600E 650N	99	5.4
600E 600N	63	18.9
600E 550N	86	120.0
600E 500N	100	8.4
STANDARD G-1	-	.3
STANDARD C/AU-S	59	46.4

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
600E 450N	98	15.9
600E 400N	48	20.8
600E 350N	35	2.9
600E 300N	38	6.6
600E 250N	31	6.9
RE 600E 50S	27	4.5
600E 200N	52	2.5
600E 150N	105	90.0
600E 100N	66	10.0
600E 00N	61	5.4
600E 50S	30	3.0
600E 100S	108	7.1
600E 150S	61	7.3
600E 200S	56	4.4
600E 250S	54	7.5
600E 300S	65	5.4
600E 350S	127	9.3
600E 400S	32	9.4
600E 450S	32	4.7
600E 500S	32	2.5
600E 550S	31	.7
600E 600S	104	3.4
600E 650S	102	1.5
600E 700S	79	100.0
600E 750S	20	90.0
600E 800S	38	7.2
600E 850S	41	1.9
600E 900S	13	2.2
600E 950S	16	6.1
600E 1000S	18	10.1
600E 1050S	18	7.6
600E 1100S	25	4.7
600E 1150S	20	3.1
600E 1200S	16	15.0
600E 1250S	20	.8
600E 1300S	17	1.3
600E 1350S	8	.6
STANDARD G-1	-	.5
STANDARD C/AU-S	60	48.0

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
600E 1400S	8	.5
600E 1450S	24	.2
RE 600E 1700S	8	.2
600E 1500S	29	.6
600E 1550S	22	.2
600E 1600S	17	.2
600E 1650S	12	.2
600E 1700S	8	.2
600E 1750S	14	1.4
600E 1800S	9	14.6
600E 1850S	11	.8
600E 1900S	8	5.5
600E 1950S	6	.2
600E 2000S	5	.2
1000E 50S	36	.6
1000E 100S	53	3.2
1000E 150S	39	1.1
1000E 200S	42	1.4
1000E 250S	34	.2
1000E 300S	30	4.1
1000E 350S	70	6.4
1000E 400S	28	3.4
1000E 450S	55	26.4
1000E 500S	43	5.0
1000E 550S	65	6.5
1000E 600S	25	.7
1000E 650S	38	1.0
1000E 700S	35	3.2
1000E 750S	33	.2
1000E 800S	29	.5
1000E 850S	32	2.9
1000E 900S	24	3.7
1000E 950S	29	6.5
1000E 1000S	16	3.0
1000E 1050S	18	3.3
1000E 1100S	19	.8
1000E 1150S	31	1.7
STANDARD G-1	-	.7
STANDARD C/AU-S	58	45.7

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
1000E 1200S	51	2.7
1000E 1250S	8	.3
1000E 1300S	19	1.0
1000E 1400S	14	.9
1000E 1450S	13	1.0
1000E 1500S	18	7.9
1000E 1550S	17	1.9
1000E 1600S	10	.3
1000E 1650S	7	.2
1000E 1700S	6	.6
1000E 1750S	18	.3
1000E 1800S	22	2.7
1000E 1850S	30	.8
1000E 1900S	28	4.1
1000E 2000S	24	1.9
1400E 00N	29	5.8
1400E 50S	78	6.8
RE 1400E 250S	39	1.9
1400E 100S	29	1.6
1400E 150S	15	2.1
1400E 200S	12	2.8
1400E 250S	37	2.3
1400E 300S	25	1.1
1400E 350S	24	2.3
1400E 400S	39	2.0
1400E 450S	38	6.4
1400E 500S	118	2.9
1400E 550S	33	1.1
1400E 600S	44	2.5
1400E 650S	30	.7
1400E 700S	24	.8
1400E 750S	15	1.3
1400E 800S	18	.4
1400E 850S	28	1.3
1400E 900S	12	.5
1400E 950S	10	23.4
1400E 1000S	16	1.2
STANDARD G-1	-	.3
STANDARD C/AU-S	58	45.7

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
1400E 1050S	26	3.1
1400E 1100S	8	.5
1400E 1150S	43	.2
1400E 1200S	30	.9
1400E 1250S	25	5.1
1400E 1300S	47	3.7
1400E 1350S	30	1.1
1400E 1400S	27	5.8
1400E 1450S	26	5.5
1400E 1500S	31	.4
1400E 1550S	32	2.5
1400E 1600S	14	2.8
1400E 1650S	11	1.5
1400E 1700S	17	.5
1400E 1750S	23	7.6
1400E 1800S	11	.2
1400E 1850S	25	12.8
1400E 1900S	13	1.8
1400E 1950S	11	2.1
1400E 2000S	10	20.3
1800E 50S	17	1.4
1800E 100S	14	1.6
1800E 150S	23	1.6
RE 1400E 1950S	11	.5
1800E 200S	32	2.1
1800E 250S	17	.5
1800E 300S	7	.2
1800E 350S	14	3.6
1800E 400S	17	5.0
1800E 450S	16	1.2
1800E 500S	18	.7
1800E 550S	23	5.3
1800E 600S	23	16.0
1800E 650S	21	1.2
1800E 700S	11	.2
1800E 750S	21	2.3
1800E 800S	19	1.6
STANDARD G-1	-	.6
STANDARD C/AU-S	59	51.0

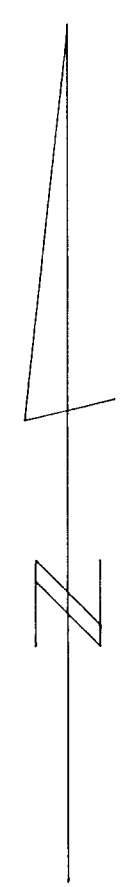
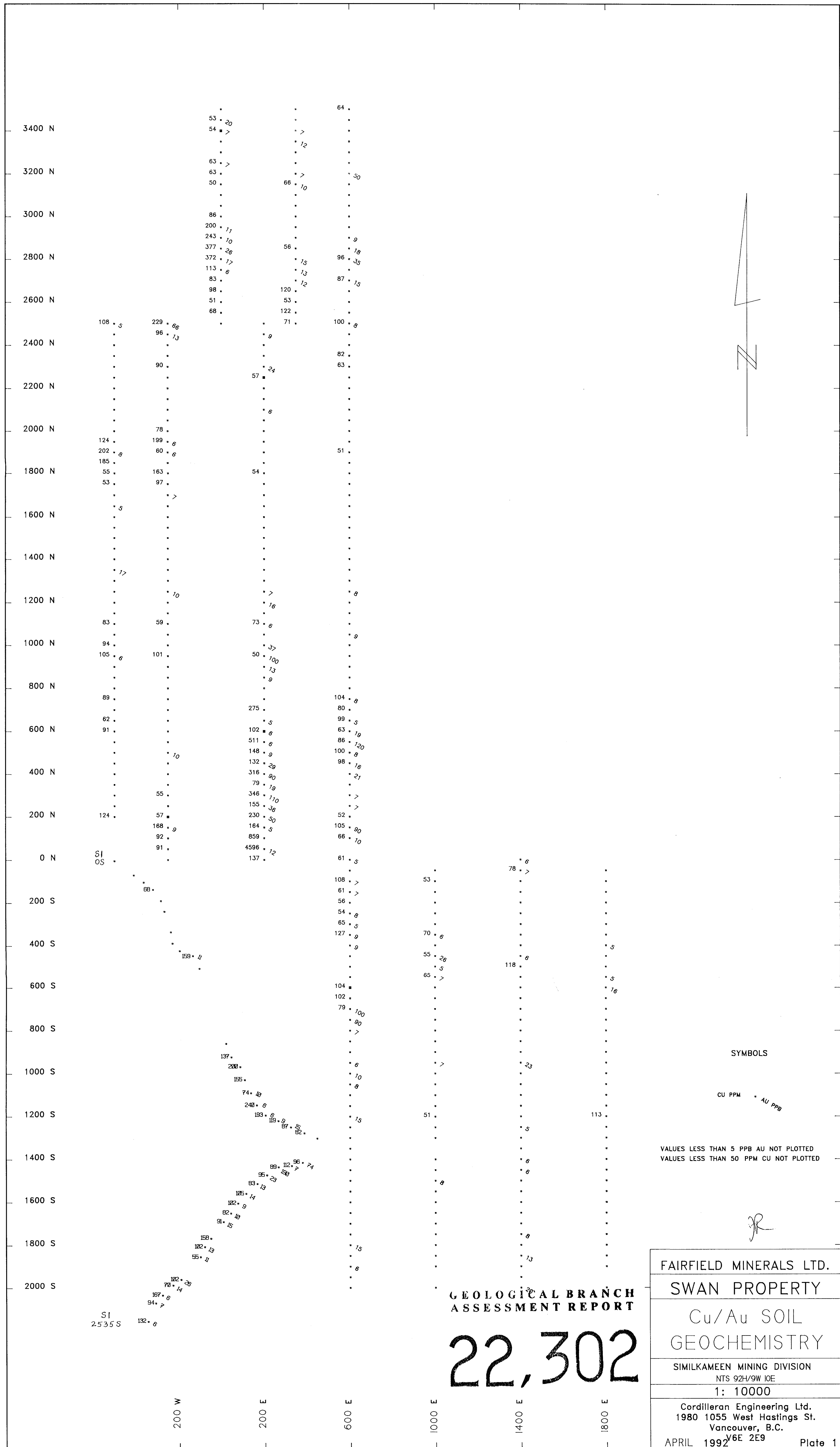
Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
1800E 850S	17	1.3
1800E 900S	18	4.2
1800E 950S	13	2.1
1800E 1000S	34	4.7
1800E 1050S	15	.5
1800E 1100S	16	.3
1800E 1150S	25	3.8
RE 1800E 1400S	31	.9
1800E 1200S	113	4.1
1800E 1250S	19	.2
1800E 1300S	11	1.1
1800E 1350S	19	.2
1800E 1400S	30	.5
1800E 1450S	19	1.0
1800E 1500S	21	1.0
1800E 1550S	28	3.0
1800E 1600S	37	2.0
1800E 1650S	24	.3
1800E 1700S	19	.7
1800E 1750S	16	.2
1800E 1800S	33	2.4
1800E 1850S	22	.2
1800E 1900S	18	.6
1800E 2000S	17	1.7
S1 00S	22	1.1
S1 100S	15	.6
S1 150S	22	1.4
S1 200S	68	4.1
S1 300S	39	2.8
S1 350S	26	.6
S1 400S	45	4.4
S1 450S	8	.6
S1 500S	14	.3
S1 550S	159	11.2
S1 600S	18	.2
S1 900S	52	1.1
S1 950S	137	4.3
STANDARD G-1	-	.2
STANDARD C/AU-S	58	47.8

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Cu ppm	Au* ppb
S1 1000S	200	4.1
S1 1050S	155	3.4
S1 1100S	74	10.0
S1 1150S	240	6.1
S1 1200S	193	5.5
S1 1250S	119	8.9
S1 1300S	87	15.2
RE S1 1850S	76	9.5
S1 1350S	82	2.8
S1 1400S	42	1.3
S1 1500S	96	74.1
S1 1550S	112	6.5
S1 1600S	89	190.0
S1 1650S	95	22.9
S1 1700S	83	13.3
S1 1750S	105	13.7
S1 1800S	102	8.8
S1 1850S	82	10.2
S1 1900S	91	15.2
S1 2000S	158	2.5
S1 2050S	102	12.8
S1 2100S	55	11.1
S1 2250S	102	25.6
S1 2300S	70	14.2
S1 2400S	167	5.7
S1 2450S	94	6.7
S1 2535S	132	5.7
STANDARD G-1	-	.3
STANDARD C/AU-S	62	50.4

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.



SYMBOLS

Cu PPM Au PPB

VALUES LESS THAN 5 PPB AU NOT PLOTTED
VALUES LESS THAN 50 PPM CU NOT PLOTTED

JR

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,302

FAIRFIELD MINERALS LTD.

SWAN PROPERTY

Cu/Au SOIL
GEOCHEMISTRY

SIMILKAMEEN MINING DIVISION
NTS 92H/9W 10E
1: 10000

Cordilleran Engineering Ltd.
1980 1055 West Hastings St.
Vancouver, B.C.