

Geological Assessment Report

on portions of the  
HIDDEN CREEK GROUP  
(Mike, CG and Julie)

situated

13 air km. Northeast of Yale, B.C.

New Westminster Mining Division

Latitude 49° 40'N: Longitude 121° 20'W

for

AQUARIUS RESOURCES LTD.  
320 - 475 Howe Street  
Vancouver, B.C.  
V6C 2B3

(Field work from Aug. 15 - 19, 1983)

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,487**

Report by:  
D.G. Cardinal, P.Geol.  
Hope, B.C.  
Oct. 4, 1983.

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**AQUARIUS RESOURCES LTD.**

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INTRODUCTION

The Hidden Creek Group comprises the northern most group of mineral claims held by Aquarius Resources Ltd. in the Coquihalla Gold Belt. During the last two weeks in August, 1983, limited stream sediment sampling and mapping was conducted on portions of the claim group. The sampling was carried out by a prospector and a field assistant with the mapping conducted by a geologist.

The field work and accompanying report is submitted for assessment work credits.



#### LOCATION AND ACCESS

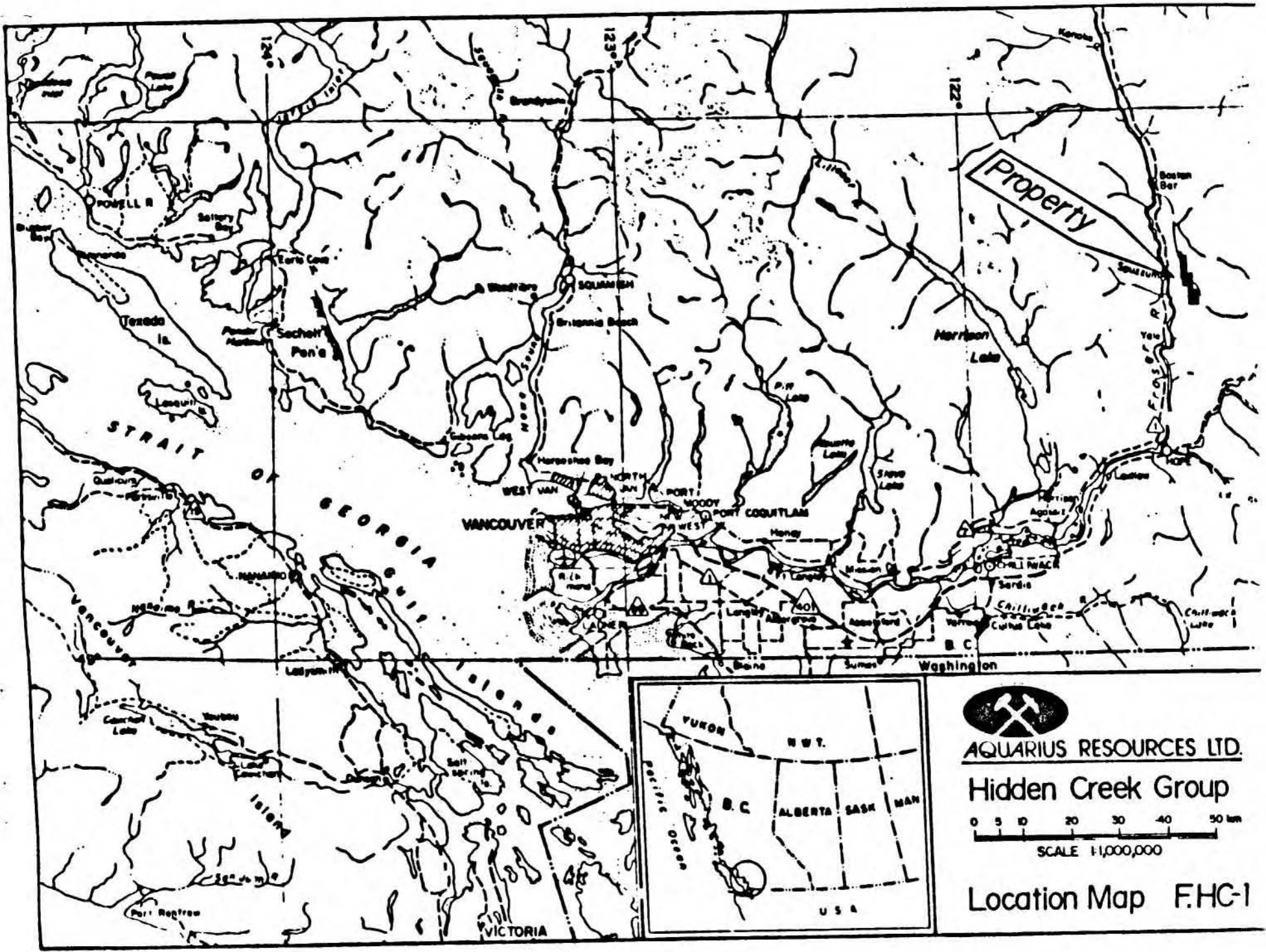
The Hidden Creek Group is centred 13 air km. northeast of Yale, B.C., roughly encompassed by latitudes  $49^{\circ} 37'20''$  -  $49^{\circ} 44'$  and longitudes  $121^{\circ} 20'10''$  -  $121^{\circ} 23'30''$ .

Access is via the Hidden Creek logging road, which runs in a southeast direction from just north of the Alexandria Bridge on the Trans-Canada Highway #1. For safety purposes, a two-way radio with the Cattermole Logging Co. Ltd. radio frequency is recommended since the area is actively logged.

Gilt Creek logging road turns off Hidden Creek road at mile 1½ and provides the only means of access to the northern portions of the Group.

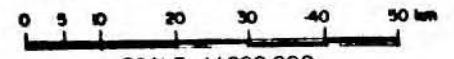
The N.T.S. map sheet for this area is 92H/11W.





**AQUARIUS RESOURCES LTD.**

**Hidden Creek Group**



SCALE 1:1,000,000

**Location Map F.HC-1**

PROPERTY INFORMATION

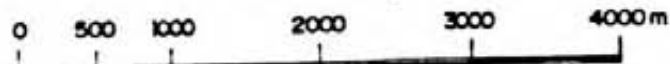
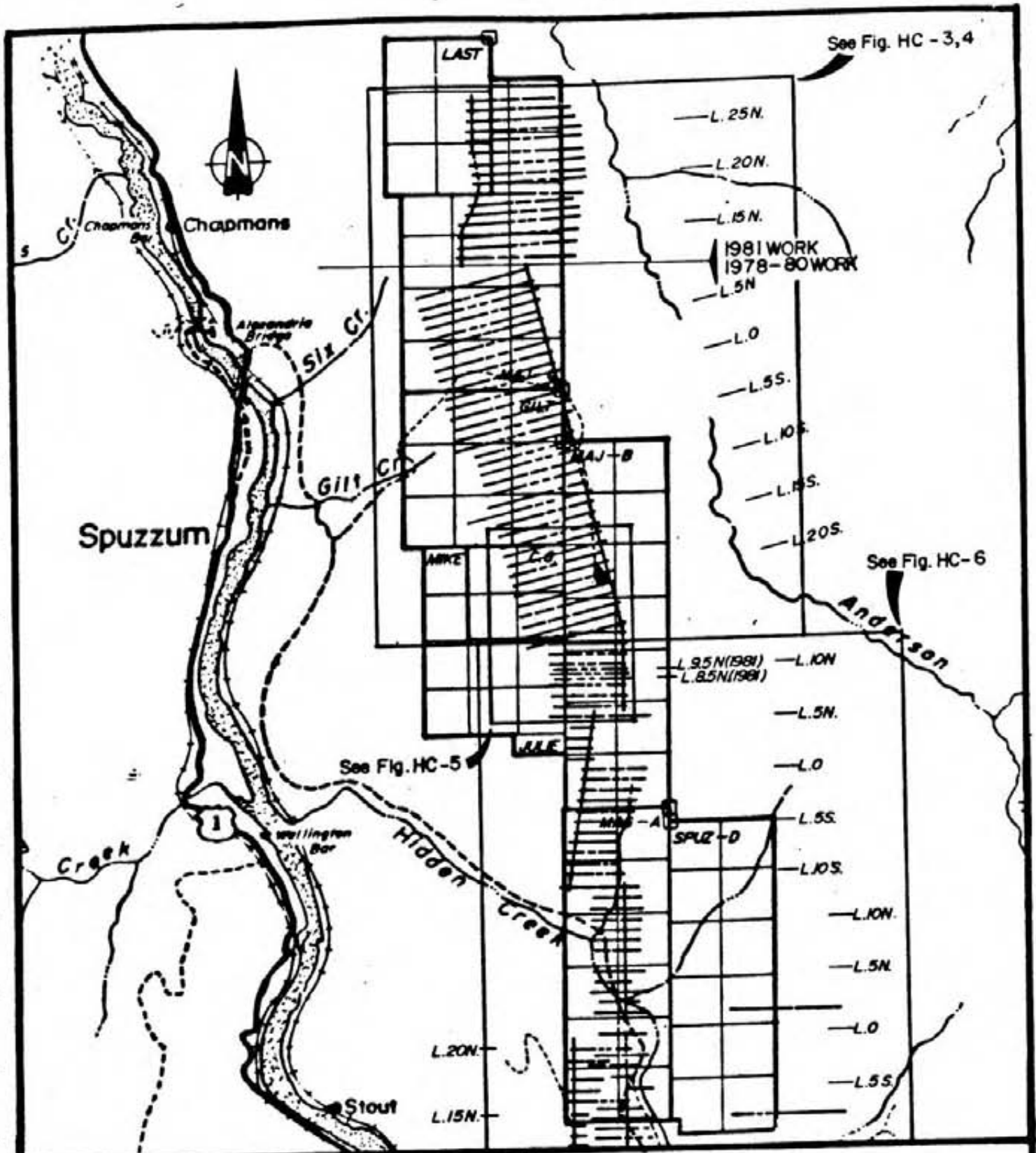
The Hidden Creek Group mineral claims are situated in the New Westminster Mining Division and are wholly owned by Aquarius Resources Ltd., 320 - 475 Howe Street, Vancouver, British Columbia. Details are outlined below:

HIDDEN CREEK GROUP - (re-grouped 1981)

<u>NAME</u>	<u>UNITS</u>	<u>RECORD NO.</u>	<u>ANNIVERSARY DATE</u>	<u>YEAR*</u>
Last	6	223	Aug. 22	1985
Maj C	18	316	Aug. 11	1983
Gilt	9	510	June 25	1985
Maj B	16	319	Aug. 11	1983
Mike 1-8 incl.	8	593-600	Sept. 20	1983
CG 1-4 incl.	9	601-604	Sept. 20	1983
Maj A	12	267	Feb. 16	1986
Spuz D	12	314	Aug. 11	1986
Jule	4	723	Nov. 27	1983

Note: \* Before assessment credits applied for.





SCALE 1:50,000

CLAIMS MAP

Figure HC-2



**AQUARIUS RESOURCES LTD.**

**Hidden Creek Group**

*N. Coquihalla Gold Belt Spuzzum, B.C.  
New Westminster Mining Division 92H/11W.*

## GEOLOGY

Geologic mapping was initiated at two scales. When possible, outcrop was tied into the overlying grid and mapped at a scale of 1:5000. In areas devoid of grid lines, geology was plotted on transparent overlays, utilizing colour aerial photographs at a scale of 1:15,000.

Two main rock groups have been recognized in the mapped area. These include:

1. HOZAMEEN GROUP:

Upper Paleozoic in age, characterized by cherts, argillites, andesitic volcanics, and serpentine.

2. LADNER GROUP:

Lower-Mid Jurassic in age, mostly slates and argillites with minor volcanic wackes.

The regional trend is NNW-SSE. The Hozameen Fault, a reverse thrust in nature, separates the uplifted Hozameen Group to the west from the younger Ladner Group to the east. The Hidden Creek Group mineral claims straddle this major structure, which is believed to have been active during the Cretaceous.





The Hozameen Group:

Cherts, argillites and interbedded andesitic volcanics typify this rock package.

A thick (100m) volcanic "greenstone" was noted in the Gilt claims area. This unit parallels the Hozameen Fault for an unknown distance north. Light green and fine grained in nature, it displays a little alteration along with minor quartz veining. Small serpentine bodies were noted in close proximity to the volcanic greenstones of this Group. These are lenticular in shape, with long axes paralleling the structural trend.

The remainder and majority of the Hozameen Group is composed of ribbon chert, interbedded with black siliceous argillites. Light grey in colour, these cherts occur in beds up to 1 m. in thickness. They are typically crypto-crystalline and highly fractured, implying brittle behaviour during deformation. Quartz veining is abundant with little or no mineralization.



The Ladner Group:

The Ladner Group lies east of the Hozameen fault throughout the claims area, consisting mainly of slates, argillites and minor wackes.

The slates are invariably fine grained, fissile, and weather rust brown due to the presence of oxidized pyrites. Recessive in nature, outcrops are limited to road cuts and creek beds.

Volcanic wacke lenses were noted along Hidden Creek road. These discontinuous units are light green in colour (high chlorite content) and extremely fresh looking. Elongate argillite clasts (up to 5 cm) are common in a medium-coarse grained groundmass of primarily volcanic rock fragments.



## SILT SAMPLING

Silt sampling was conducted on two streams leading from the claims. The samples were analyzed for gold and silver. The silts were collected by a two-man team and placed in standard kraft paper bags marked with identification numbers for location. These were then dried and shipped to Min-En Labs Ltd. of North Vancouver, B.C. for analyses.

A total of 22 silts were obtained, the silver values range between 0.3 and 1.2 parts per million (ppm) and gold between 5 and 50 parts per billion (ppb). Three gold samples ranging between 35 and 40 ppb are considered to be slightly anomalous, the rest are of background level. None of the silver values are considered to be anomalous.



## SUMMARY AND CONCLUSIONS

Assessment work was conducted on portions of the Hidden Creek Group which also encompass the Mike and CG claims due for assessment.

The field work consisted of limited geochem silt sampling, prospecting and geological mapping, carried out by a geologist, prospector and one field assistant.

Twenty-two silt samples were collected from two streams and analyzed for gold and silver. Results showed little encouragement with majority of the values within the background range.

The geology on the property basically consists of slates, argillites and minor-greywacke in fault contact with older, silicified and highly foliated sediments. No mineralization was noted.



COST BREAKDOWN

Personnel:

Geologist, August 15 - 17, 1983	
3 days @ \$350/day .....	\$1,050.00
Prospector, August 15 - 19, 1983	
5 days @ \$120/day .....	600.00
Field assistant, August 15 - 19, 1983	
5 days @ \$120/day .....	600.00

Field Expense:

Geochem silt samples, 22 samples (Au & Ag)	
@ \$7.60/sample .....	167.20
2 - 4 x 4 vehicles, 7 days @ \$50/day .....	350.00
Meals - 3 men, 12 days @ \$30/day .....	360.00

Office Expense:

Report Writing, 1 day @ \$250/day .....	250.00
Drafting, 4 hour @ \$25/hour .....	100.00
Typing, binding and copies, 4 hrs. @ \$21/hr. ....	<u>84.00</u>
	<u>\$3,561.20</u>

Respectfully submitted,



Daniel G. Cardinal, P.Geol.



APPENDIX I

CERTIFICATE

I, Daniel G. Cardinal of the Municipality of Hope, British Columbia, do hereby certify that:

1. I am a professional geologist residing in Hope, B.C., mailing address, P.O. Box 594, Hope, British Columbia, VOX 1L0.
2. I am a graduate of the University of Alberta (1975) with a B.Sc. degree in Economic Geology and a graduate of the Northern Alberta Institute of Technology with a Geological Technologist diploma (1970).
3. I am a member in good standing with the Association of Professional Engineers, Geologists and Geophysicists of Alberta; and a member of the Canadian Institute of Mining and Metallurgy.
4. Since 1968, I have been actively involved in the Canadian mining industry both as a prospector and a professional geologist, and have assisted and instructed prospector's courses through the Department of Extension, University of Alberta.
5. I am presently employed by Aquarius Resources Ltd., as a permanent staff geologist to systematically carry out geological mapping, prospecting, geochemical, geophysical and diamond drilling programs.

*Dan Cardinal*

Daniel G. Cardinal, P.Geol.



APPENDIX II

CERTIFICATE OF ASSAY



# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

Aug 25 1983

MIN-EN LTD

## ANALYTICAL REPORT

Project Hidden Creek Date of report Aug. 22/83.

File No. 3-768 Date samples received Aug. 15/83

Samples submitted by: .....

Company: Aquarius Resources

Report on: 22 silts Geochem samples

Assay samples

Copies sent to:

1. Aquarius Resources, Vancouver, B.C.

2. ....

3. ....

Samples: Sieved to mesh -80 Ground to mesh .....

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: Ag-nitric, perchloric digestion.A.A.,

Au-aqua regia.A.A.

Remarks: .....



AUG 26 1983

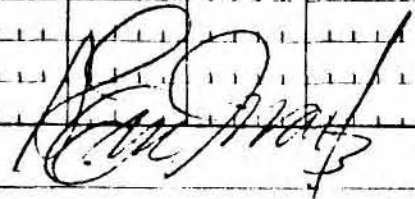
No. 3-761

DATE: Aug. 22

1983.

ATTENTION:

Sample Number	Mg ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	75	80		
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
SL1-30							08						30			
SL2-48							06						35			
SL3-100							07						5			
SL4-485							06						10			
SL5-205							07						10			
SL6-257							09						30			
SL7-307							08						5			
SL8-365							08						15			
SL9-403							05						40			
SL10-455							12						5			
LC1-00							04						10			
LC2-50							04						5			
LC3-100							04						15			
LC4-156							03						35			
LC5-200							04						10			
LC6-252							04						10			
LC7-300							05						20			
LC8-367							03						10			
LC9-400							04						5			
LC10-457							03						5			
LC11-490							03						5			
SL 158							07						15			
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CERTIFIED BY: 

**GEOCHEMICAL ANALYSIS DATA SHEET**

PROJECT No.: Hidden Creek

MIN - EN Laboratories Ltd.

AUG 26 1983

DATE: Aug. 22  
1983.

ATTENTION:

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980 5814

Sample Number	Mg ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb			
SL1-30							0.8					30			
SL2-48							0.6					35			
SL3-100							0.7					5			
SL4-485							0.6					10			
SL5-205							0.7					10			
SL6-257							0.9					30			
SL7-307							0.8					5			
SL8-365							0.8					15			
SL9-403							0.5					40			
SL10-455							1.2					5			
LC1-00							0.4					10			
LC2-50							0.4					5			
LC3-100							0.4					15			
LC4-156							0.3					35			
LC5-200							0.4					10			
LC6-252							0.4					10			
LC7-300							0.5					20			
LC8-367							0.3					10			
LC9-400							0.4					5			
LC10-457							0.3					5			
LC11-490							0.3					5			
SL 158							0.7					15			
							:								
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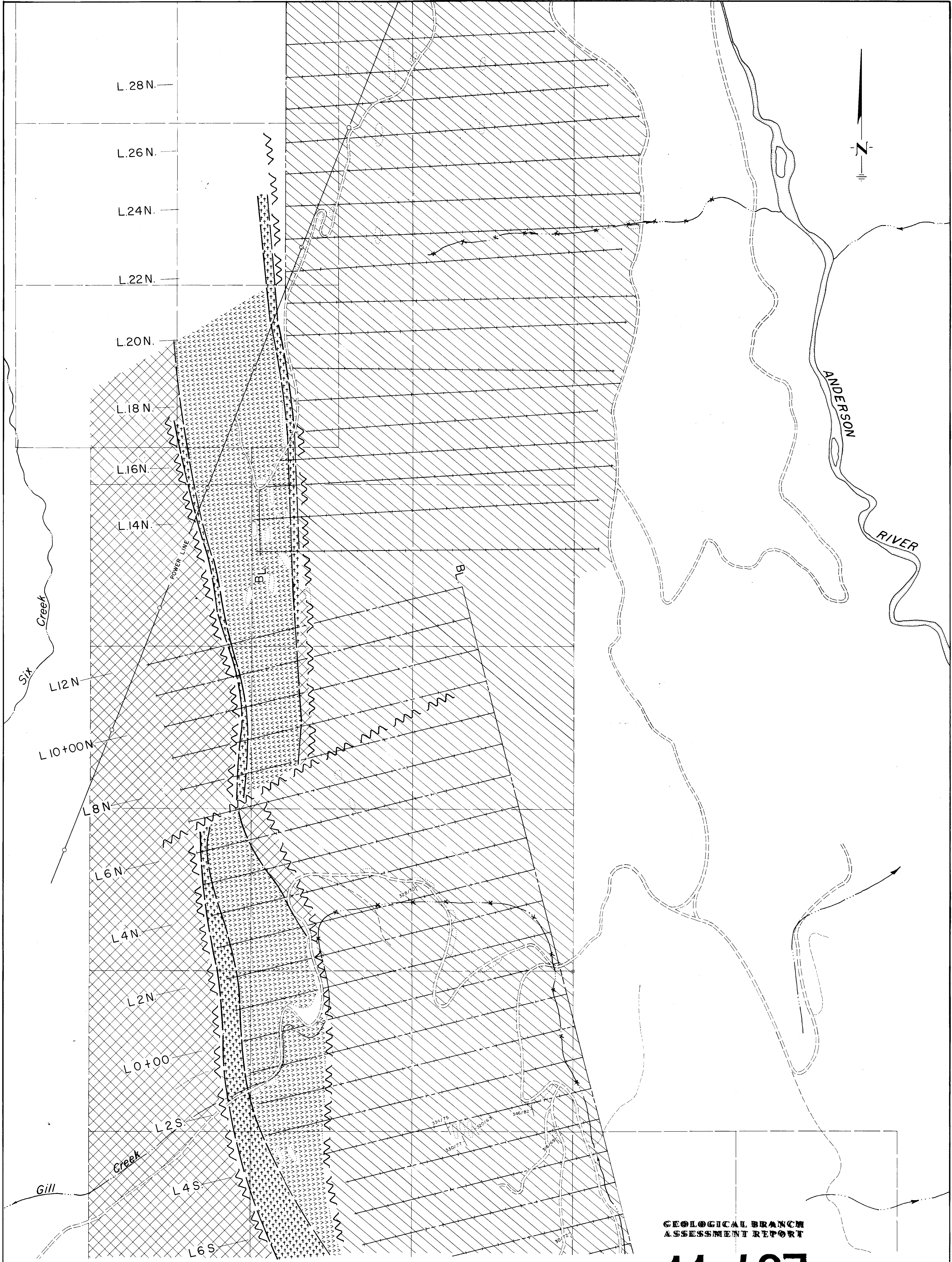
CERTIFIED BY \_\_\_\_\_

### APPENDIX III

#### BIBLIOGRAPHY

- Cairnes, C.E.:           The Serpentine Belt of the Coquihalla  
1929                       Region, Yale District, B.C., G.S.C.  
Summary Report No. 1929-A.
- Cairnes, C.E.:           Coquihalla Area, B.C., G.S.C. Memoir 139.  
1924
- Cochrane, D.R.:         Geochemical Assessment Report on portions  
1980                       of the Last Group and Hidden Creek Group.
- Littlejohn, A.L.:        Reconnaissance Geological and Geochemical  
1977                       Survey of the Northern Section, Coquihalla  
Serpentine Belt, B.C. Assessment Report.





**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,487**

**LEGEND**

	Chert, slate, argillite		HOZAMEEN GROUP (PALEOZOIC)
	Andesitic volcanic greenstone		LADNER GROUP (JURASSIC)
	Serpentine		Strike/Dip
	Slates		Outcrop
	CONTACT		DEFINIED
	FAULT		INFERRED

X SILT SAMPLE STATIONS

REVISIONS		
DATE	DESCRIPTION	INITIALS

**AQUARIUS RESOURCES LTD.**

**Geology — Hidden Creek Group**

North Coquihalla Gold Belt  
New Westminster Mining Division

Spuzzum, B.C.  
N.T.S. 92 H/11W

SCALE 1:5000

Figure no. 3

APPROVED

DRAWN BY E.M.T. CONSULTANTS LTD. 83-70