81-#993 - 9767

Geological and Geochemical Assessment Report

on portions of the

HIDDEN CREEK GROUP
(Mike, Julie, CG, Last, Maj B and Maj C Mineral Claims)

Situated

13 air kilometres Northeast of
Yale, B. C.

New Westminister Mining Division

N.T.S. 92H/11W

Latitude 49°40'N Longitude 121°20'W

Field Work from August 1 through August 24, 1981

for

AQUARIUS RESOURCES LTD

Report by

D. G. Cardinal, P. Geol.,
and
B. P. Fowler, B.Sc. (Geol)

September, 1981
Vancouver, B. C.

AQUARIUS RESOURCES LTD.

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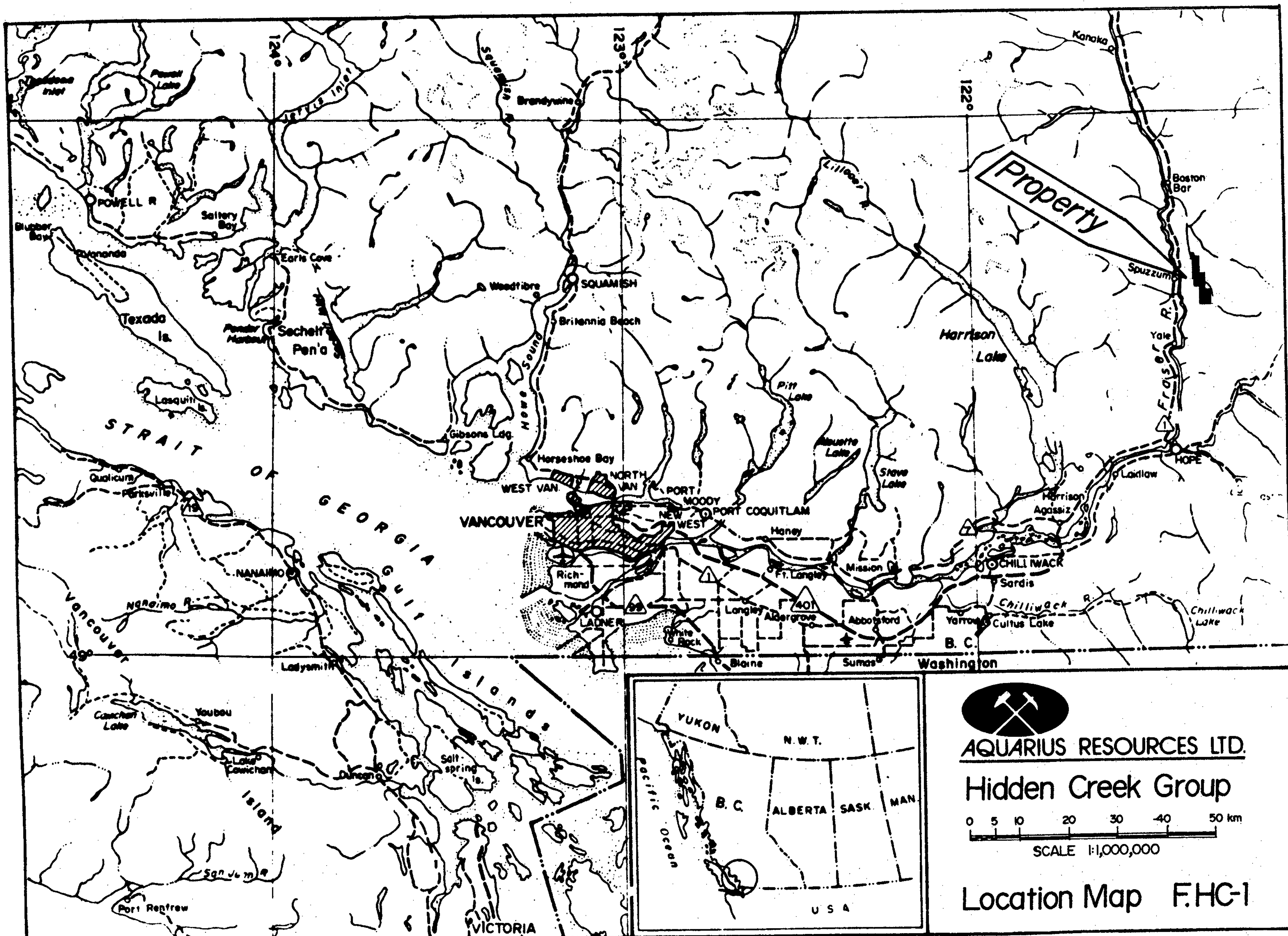
Introduction

The Hidden Creek Group comprises the northern-most group of mineral claims held by Aquarius Resources Ltd., in the Coquihalla Gold Belt. During the month of August, 1981, a geologist and five (5) field assistants conducted a geochemical survey and mapped in detail portions of this claim group. This program was only one of a series of exploration programs carried out along the Coquihalla Gold Belt by Aquarius Resources Ltd., during the 1981 field season.

The following report was prepared for assessment work submission, with results listed in Appendix I.


Property
Kanaka
Boston Bar
Spuzzum
Yale
Fraser R.
HOPE
Laidlaw
Harrison Lake
Lillooet R.
Pitt Lake
Stave Lake
Harrison
Agassiz
CHILLIWACK
Sardis
Chilliwack R.
Chilliwack Lake
Yarrow
Cultus Lake
B. C.
Washington
Sumas
Blaine
Abbotsford
Aldergrove
Langley
White Rock
LADNER
Richmond
Mission
Ft. Langley
Haney
PORT COQUITLAM
PORT MOODY
NEW WEST
VANCOUVER
WEST VAN
NORTH VAN
Horseshoe Bay
Gibsons Ldg.
Howe Sound
Britannia Beach
SQUAMISH
Woodfibre
Brandywine
Squamish R.
Jervis Inlet
Earls Cove
Sechelt Pen'a
Pender Harbour
Saltery Bay
POWELL R
Powell Lake
Blubber Bay
Texada Is.
Lasquiti Is.
Qualicum
Parksville
NANAIMO
Nanaimo R.
STRAIT OF GEORGIA
Gulf Islands
Vancouver Island
Ladysmith
Cowichan Lake
Youbou
Lake Cowichan
Duncan
Salt spring Is.
San Juan R.
Port Renfrew
VICTORIA
124°
123°
122°
49°
YUKON
N. W. T.
B. C.
ALBERTA
SASK.
MAN.
Pacific Ocean
U S A
AQUARIUS RESOURCES LTD.
Hidden Creek Group
0 5 10 20 30 40 50 km
SCALE 1:1,000,000
Location Map F.HC-1

Location and Access

The Hidden Creek Group is centered 13 air km northeast of Yale, B. C., roughly encompassed by latitudes 49°37'20" - 49°44' and longitudes 121°20'10" - 121°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.

Siwash Creek road branches off Hidden Creek road at mile 7 and winds south well into the adjoining Spuz and Emmigrant Groups. A five (5) trailer base camp is located approximately 2½ miles (4 km) south from the above mentioned intersection. All roads are in relatively good driving condition but warrant 4 x 4 transportation.

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

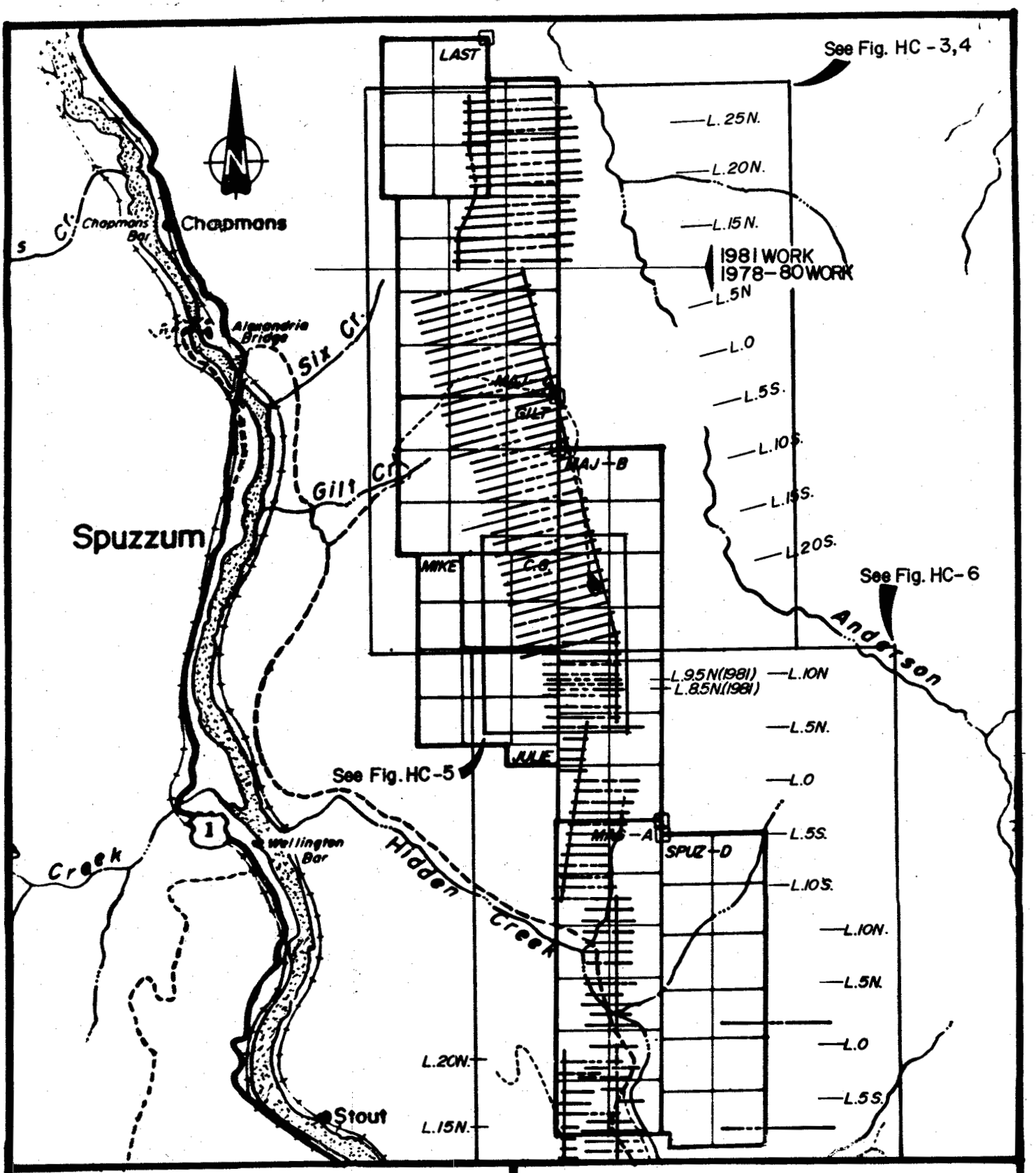
Property Information

The Hidden Creek Group mineral claims are situated in the New Westminster Mining Division and are wholly owned by Aquarius Resources Ltd., 920-475 Howe Street, Vancouver, British Columbia. Details are outlined below:

HIDDEN CREEK GROUP - (re-grouped, 1981)

NAME	UNITS	RECORD NO.	ANNIVERSARY DATE	YEAR*
Last	6	223	August 22	1985
Maj C	18	316	August 11	1983
Gilt	9	510	June 25	1985
Maj B	16	319	August 11	1983
Mike 1-8 incl.	8	593-600	September 20	1983
CG 1-4 incl.	9	601-604	September 20	1983
Maj A	12	267	February 16	1986
Spuz D	12	314	August 11	1986
Julie	4	723	November 27	1983

Note: * After assessment credits applied for


See Fig. HC - 3,4
LAST
L. 25N.
L. 20N.
L. 15N.
1981 WORK
1978-80 WORK
L. 5N
L. 0
L. 5S.
L. 10S.
L. 15S.
L. 20S.
See Fig. HC-6
Anderson
L. 9.5N (1981)
L. 8.5N (1981)
L. 10N
L. 5N.
L. 0
L. 5S.
L. 10S.
L. 10N.
L. 5N.
L. 0
L. 5S.
L. 20N.
L. 15N.
Chapmans
Chapmans Bar
Alexandria Bridge
Six Cr.
Gilt Cr.
Spuzzum
MAJ
GILT
MAJ-B
MIKE
C.C.
JULE
See Fig. HC-5
MAJ-A
SPUZ-D
Wellington Bar
Hidden Creek
Stout
1
0 500 1000 2000 3000 4000 m
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.

Summary & Conclusions

1. The Ladner Group consists mainly of slates and argillites, with minor volcanic wacke lenses. Numerous quartz-feldspathic dykes and sills occur within this group, occupying positions near fold axes. Mineralization is sparse, occuring mainly as disseminated sulfides within the intrusives. Metamorphism is low grade (Lower Greenschist facies) except for thin hornfelsic outliers near intrusives.

2. A thick (100 m) volcanic greenstone unit occurs within the Hozameen Group in the Gilt Creek area. Small serpentine lenses appear to be closely associated with this unit, which may be the result of intense shearing and leeching of the greenstone during the long history of the Hozameen thrust.

This area deserves more careful study since volcanics provide good host rock for mineralization and the area is so structurally complex.

3. The Serpentine Belt observed in the South Coquihalla extends through the study area, in the form of discontinuous

fault bounded (Hozameen Fault) lenses.

4. The structural trend is NNW-SSE. Tight isoclinal folding (axes plunging south) was noted in the Hidden Creek area within the Ladner Group. The Hozameen Fault, a reverse thrust in nature, is the major continuous structure throughout the area. It separates the uplifted Paleozoic Hozameen Group to the west from the lower-mid Jurassic Ladner Group to the east. This fault is offset north of Gilt Creek by what appears to be a series of right lateral cross faults. Overall displacement appears to be approximately .5 km east.

5. The geochemical soil survey of the Last and Maj C mineral claims was not successful in outlining any areas anomalous in gold.

Further work should include:

1. Detailed thin section analysis of volcanic greenstone and serpentine samples from the area

2. Continued detail mapping
3. Ground magnetic survey

Section I

Geochemistry

1. Field Procedures - The Last - Maj C Grid

A north-south baseline was blazed and flagged at 50 m intervals paralleling a prominent volcanic greenstone ridge within the Hozameen Group. Seventeen (17) grid lines (L13N-29N) with 100 m spacings were run east from this baseline for an average distance of 1 km. Soil samples were obtained at 50 m intervals along these grid lines and analyzed for gold and mercury content.

Field Procedures - The Maj B Grid

This grid (established in 1980) saw the addition of two (2) seven hundred metre lines (L3.5N & L9.5N) during the '81 field season. The objective was to provide better control on the 75 ppb (parts per billion) gold anomaly outlined by L9N-2+00W and L10N-2+00W during the 1980 field season. Soil samples were obtained at 50 m intervals and analyzed for gold and mercury. Bulk rock samples were taken on or near anomalies similar in magnitude elsewhere on this grid.

Grid lines were blazed with brush axes and surveyed by compass and chain method. Flagging marked with grid co-ordinates, was fastened to tree branches every slope corrected 50 m.

Soil samples were obtained from the upper "B" soil horizon every 50 m with the aid of hand tools and placed in standard kraft paper bags marked with grid coordinates. These were then dried and shipped to Min-En Labs Ltd. of North Vancouver, B. C. to be analyzed for gold and mercury content by Aqua Regia and Atomic A sorption technique.

Results were sent to Aquarius Resources Ltd. (Hope Field Office) and plotted on a base map with the aid of field notes at a scale of 1:5000.

2. Discussion of Results - Last-Maj C Grid

The gold content of upper "B" horizon soil samples from this grid ranged from below detection limit (/5ppb Au) to a high of 35 ppb. Previous experience on the Coquihalla Gold Belt has illustrated that values from 15 to 45 ppb Au to be weakly anomalous, values from 45 to 75 ppb Au moderately anomalous, and 75 ppb Au and greater as anomalous. (Cochrane, 1980).

The highest values (35 ppb Au) by the above classification are considered weakly anomalous. The lack of high gold values does not necessarily imply that underlying bedrock displays the same characteristic. Thick soil/till cover (common to the area) may act as an effective barrier for gold migration in solution, even when underlying bedrock is anomalous with respect to gold.

Results are plotted on Fig. 2 along with previous years' work and contoured at the above mentioned intervals.

Discussion of Results - Maj B Grid

A total of twenty-four (24) soil samples and five (5) bulk rock samples were taken along this grid. Gold values from the upper "B" soil horizon ranged from a high of 15 ppb Au to below detection limit (/5 ppb Au). Upon contouring, previous highs became isolated and limited in areal extent (Fig. 3)

Bulk rock samples were obtained at the following geochemical highs (gold) and grid coordinates to be assayed for gold. (Results also on Fig. 3)

Coordinates	Gold in "B" Horizon (ppb)	Gold in Rock (oz/ton)
L8N 3+00W	80	/0.002
L8N 4+75W	235	/0.002
L9N 2+00W	505	/0.002
L15S 1+50W	85	/0.002
L24S 0+50W	75	/0.002

High gold values in the soil appear to be unsubstantiated, most likely reflecting an accumulation of background gold leeched over a long period of time from the underlying bedrock.

L.14S.

L.16S.

L.20S.

L.22S.

L.12N.

L.24S.

L.10N.

L.9.5N.(1981)

L.8.5N.(1981)

L.8N

L.6N.

C.G.2

L.C.P. JULIE

C.G.1

MIKE 7

MIKE 9

N

Hg Au

85 5 | 60 5 | 85 5 | 50 10 | 110 5 | 75 10 | N.S. | 75 10 | 80 5 | 80 5 | 55 5 | 35 10 | 75 15 | N.S.

5 5 | 25 5 | N.S. | 50 5 | 55 5 | 65 5 | 45 5 | 65 10 | 25 5 | 100 5 | 55 10 | 70 5 | N.S. | N.S.

SCALE 1:5000

0 50 100 200 300 400 500m

NOTE:

ALL LINES WERE CUT AND SAMPLED FOR Au DURING 1978 AND 1980 (RESULTS NOTE SHOWN) UNLESS OTHERWISE NOTED.

LEGEND: CONTOUR INTERVALS:

AQUARIUS RESOURCES LTD.

Hidden Creek Group — Spuzzum, B.C.

New Westminster Mining Division — N.T.S. 92H/11W.

GEOCHEMICAL & ASSAY COMPILATION MAP —

SECTION II

Geology

1. Mapping Procedures

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 color aerial photographs at a scale of 1:15,000.

Notes were kept in standard field books and compiled at the end of the project. All geology was transferred to two (2) 1:5000 scale base maps of the claims area (Figs 4 & 5)

2. Observations

Four main rock groups have been recognized in the study 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

3. SERPENTINE BELT

- Cretaceous?

4. INTRUSIVES

- Cretaceous ? usually in the form of dyke and sill complexes in Ladner Group. Quartz feldspathic to gabbroic compositions.

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.

(a) The Hozameen Group

Cherts, argillites and interbedded andesitic volcanics typify this rock package. These rocks were not mapped in detail, and justify further investigation.

A thick (100 m) 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. Detailed mapping may delineate mineralized shear zones, similar to those encountered within the (basal Ladner Group) greenstone package in the South Coquihalla region.

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. It is believed these serpentine bodies were derived from the andesitic volcanics, and represent the localized result of intense shearing and leaching encountered during the spasmodic Hozameen Thrust.

The remainder and majority of the Hozameen Group is composed of ribbon chert, interbedded with black siliceous argillites. Light grey in color, 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 Hozameen Group is very resistant to erosion in nature, forming large ridges and steep cliffs, especially near the Hozameen Fault.

(b) 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 color (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.

Unfortunately, this Group displays no marker horizon which can be used effectively in unravelling the complex structures observed.

(c) The Serpentine Belt

Serpentine occurs as isolated lenses along or near the Hozameen Fault within the Hozameen Group. It is typically a dark green-black massive, dense textured rock. Field observations have led to the suggestion that essentially two (2) types of serpentine are encountered here, each having a different time and mode of formation.

Type One:

Small lenses of serpentine are fault bounded to the east (Hozameen Fault) and bordered by non-igneous rocks to the west. This is similar to the massive Serpentine Belt in the Coquihalla South (Hope Group, Jessi Group locations). This belt is believed to represent an altered basic intrusion, peridotitic in nature, which occurred along a zone of weakness between the Hozameen and Ladner Groups (Cairnes). Alteration was facilitated by ascending thermal gases and solutions released by underlying magmas and contemporaneous intrusives. Serpentine of this parentage is believed to exist within the study area, in the form of a thin discontinuous belt.

Type Two

The second type of serpentine observed occurs as isolated pods well within the Hozameen Group, closely

associated with the andesitic volcanics. The intense shearing during the long history of the Hozameen thrust combined with ascending hydrothermal gases and solutions produced discontinuous serpentine pods, structurally oriented parallel to the Hozameen Fault, but derived from less basic andesite of Hozameen age.

Though examination has only been on the megascopic scale, a detailed thin section analysis of specimens from both environments should easily prove or disprove the above assumption.

(d) Intrusions

The Ladner Group plays host to numerous dykes and sills, which strike parallel to the regional trend. All intrusives are concordant with bedding (near vertical) making the distinction between "dyke" and "sill" often quite difficult. Bodies range in thickness from less than 1 m to more than 50 m, and up to 1 km in length. In the Hidden Creek area, these intrusives appear to occupy positions near fold axes.

Quartz monzonites predominate, though dykes gabbroic

in composition were noted. Usually fine to medium grained, some porphyrys were observed in thicker (10 m) units. Phenocrysts of feldspar and hornblende up to 1 cm were seen in these larger bodies. Pyrite, pyrrhotite, and occasional arsenopyrite occur only as accessory minerals.

Slivers of argillite (now hornfels) occasionally exist within these intrusives. Slate contacts are thermally metamorphosed over an interval of 1 or 2 m.

Respectfully submitted

Brian P. Fowler, B.Sc. (Geol)

Dan Cardinal, B.Sc., P. Geol.
September, 1981.
Vancouver, B. C.

3. Structure and Metamorphism

The structural trend is NNW-SSE, with few deviations. The Hozameen Fault was traced along the western margin of the property, separating the uplifted Hozameen Group to the west from the younger Ladner Group to the east. This reverse thrust is offset approximately 1 km to the east by what appears to be a series of right lateral cross faults. Poor exposure within the area makes interpretation difficult. Outcrop near the Hozameen Fault is invariably sheared and highly fractured.

A series of tight isoclinal folds were noted within the Ladner Group in the Hidden Creek vicinity. Amplitudes and wave lengths range from 0.5 m to tens of metres. Fold axes concurrent with the regional trend plunge gently to the southeast. Compression from the west was acommodated by flexural slipping along bedding planes. The absence of well defined cleavage and sedimentary bedding structures renders "way up" determinations difficult.

A swarm of monzonitic dykes and/or sills occupy positions very near the above mentioned fold axes. Intrusives

are concordant with bedding, making the distinction between "dyke" and "sill" very subtle. These undoubtedly represent outer fingers of the Cenozoic Needle Peak Pluton, a large grano-dioritic mass located 4 km east.

A thin hornfels (1-2 m) encompass most intrusives, with little or no observed mineralogical change. The regional metamorphic grade is of the lower greenschist facies.

APPENDIX I

GEOCHEMICAL ANALYSIS DATA SHEETS

MIN-EN Laboratories Ltd.

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

ANALYTICAL REPORT

Project ..... Date of report Sept.10/81.

File No. 1-750 Date samples received Aug.25/81.

Samples submitted by: .....

Company: Aquarius Resources

Report on: 80 soils 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: Hg-Flameless A.A., Au-Aqua Regia A.A.

.....

Remarks: .....

.....

.....

SPECIALISTS IN MINERAL ENVIRONMENTS

COMPANY: Aquarius Resources

PROJECT No.: Spuzzum Mike & Julie

ATTENTION:

GEOCHEMICAL ANALYSIS DATA SHEET

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

No. 1-750

DATE: Sept. 1 1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb
L9.5N1+00W									75			15
1+50									35			10
2+00									55			5
2+50									80			5
3+00									80			5
3+50									75			10
4+50									75			10
5+00									110			5
5+50									50			10
6+00									85			5
6+50									60			5
L9.5N7+00W									85			5
BL8.5N0+00W									no sample			
0+50									no sample			
1+00									no sample			
1+50									70			5
2+00									55			10
2+50									100			5
3+00									25			5
3+50									65			10
4+00									45			5
4+50									65			10
5+00									55			5
5+50									50			5
6+00									no sample			
6+50									25			5
BL8.5N7+00W									5			5
L26N7+50E									20			5

CERTIFIED BY

COMPANY: Aquarius Resources

PROJECT No.: Gilt Creek

ATTENTION:

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.
705 WEST 15th ST., NORTH VANGOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 1-750

DATE: Sept. 10 1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb
L28N0+00E									10			10
0+50									75			10
1+00									45			5
1+50									45			5
2+50									25			5
3+00									25			5
3+50									40			5
4+00									35			5
4+50									30			15
5+50									10			5
6+00									50			5
6+50									25			10
7+00									5			5
7+50									5			15
8+50									30			5
9+00									15			5
9+50									30			10
L28N10+50E									35			5
L21N0+00E									25			5
0+50									45			<5
1+00									75			5
1+50									75			20
2+00									60			10
2+50									20			5
3+00									45			10
4+00E									45			5
4+50									15			5
5+00									20			10
5+50									45			5
L2 N6+00E									15			10

CERTIFIED BY

COMPANY: Aquarius Resources

PROJECT No.: Gilt Creek Spuzzum

ATTENTION:

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

PHONE (604) 980-5814

No. 1-750

DATE: Sept. 1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb
BL15N8+50E									55			10
9+00									80			5
9+50									75			5
BL15N10+00E									90			5
BL16N0+00E									75			10
0+50									120			15
1+00									80			5
1+50									90			5
2+00									60			10
2+50									85			5
3+00									110			5
3+50									70			5
4+00									95			10
4+50									75			5
5+00									65			15
5+50									75			20
6+00									80			35
6+50									55			5
7+00									75			5
7+50									90			10
8+00									65			15
8+50									50			5
9+00									75			10
9+50									55			5
10+00									45			5
BL16N10+50E									35			10

CERTIFIED BY

MIN-EN Laboratories Ltd.

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

ANALYTICAL REPORT

Project ..... Gilt Creek ..... Date of report ..... Sept.9/81.

File No. ..... 1-750 ..... Date samples received ..... Aug.25/81.

Samples submitted by: .....

Company: ..... Aquarius Resources .....

Report on: ..... 255 soils ..... 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: ..... Hg-Flameless A.A., Au-Aqua Regia A.A. .....

.....

Remarks: ..... More samples to follow. .....

.....

.....

SPECIALISTS IN MINERAL ENVIRONMENTS

COMPANY: Aquarius Resources

PROJECT No.: Gilt Creek

ATTENTION:

GEOCHEMICAL ANALYSIS DATA SHEET

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

File No. 1-750

DATE: Sept. 9, 1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb
L21N6+50E									35			5
7+00									50			5
7+50									20			5
8+00									60			5
8+50									25			5
9+00									25			5
9+50									5			5
10+00									45			5
10+50									35			5
L21N11+00E									35			5
L19N0+00E									70			5
0+50									40			5
1+00									30			5
1+50									50			5
2+00									90			10
2+50									40			10
3+00									75			5
4+00									60			5
4+50									55			5
5+00									5			5
5+50									20			5
6+00									45			5
6+50									50			5
7+00									80			5
7+50									10			5
8+00									25			5
L19N8+50E									5			5
L20N0+00E									40			5
0+50									100			5
L20N1+00E									70			5

CERTIFIED BY

COMPANY: Aquarius Resources

PROJECT No.: Gilt Creek

ATTENTION:

GEOCHEMICAL ANALYSIS DATA SHEET

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

R No. 1-750

DATE: Sept. 9 1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb
L20N1+50E									45			15
2+00									40			5
2+50									50			5
3+00									35			10
3+50									55			5
4+00									65			5
4+50									80			5
5+00									65			10
5+50									75			5
6+50									35			5
7+00									40			15
8+50									25			5
9+00									25			5
9+50									30			10
L20N10+00E									35			5
L29N0+00E									60			10
0+50									95			5
1+00									115			10
1+50									no sample			
2+00									30			5
2+50									35			5
4+50									100			5
5+00									60			5
5+50									20			10
6+00									5			5
6+50									25			10
L29N7+00E									45			5
L26N0+00E									85			5
0+50									55			10
L26N1+00E									30			5

CERTIFIED BY

COMPANY: Aquarius Resources

PROJECT No.: Gilt Creek

ATTENTION:

GEOCHEMICAL ANALYSIS DATA SHEET

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

FILE No. 1-750

DATE: Sept. 9 1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb
L26N1+50E									25			5
3+50									45			5
4+00									20			5
5+00									95			5
5+50									165			5
6+00									35			5
6+50									30			5
7+00									70			5
7+50									30			5
8+00									60			5
8+50									35			5
9+00									45			5
10+50E									20			5
L26N11+00E									20			5
23 L24N0+00E									40			5
0+50									15			5
1+00									50			10
1+50									30			5
2+00									30			5
2+50									65			5
3+00									35			5
3+50									65			5
4+00									40			5
4+50									75			5
5+00									35			5
5+50									5			5
6+00									5			5
6+50									55			5
7+00									15			5
L23N7+50E									10			5

CERTIFIED BY

COMPANY: Aquarius Resources

PROJECT No.: Gilt Creek

ATTENTION:

GEOCHEMICAL ANALYSIS DATA SHEET

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

FILE No. 1-750

DATE: Sept. 9, 1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb		
L23N8+00E									35			10		
8+50									5			5		
9+00									35			5		
9+50									75			25		
10+00									50			10		
10+50									90			5		
L23N11+00E									35			5		
L27N0+00E									20			5		
0+50									20			5	(40mesh)	
1+00									110			5		
1+50									105			10		
4+00									160			5		
6+00									80			5		
6+50									40			<5		
7+00									50			5		
7+50									20			5		
8+50									45			5		
9+00									25			5		
9+50									20			<5		
10+00									100			5		
10+50									90			5		
12+00									40			<5		
L27N12+50E									20			5		
L25N0+00E									55			5		
0+50									80			5		
1+00									10			<5		
1+50									50			5		
2+00E									115			15		
3+00									55			5		
L25N3+50E									20			10		

CERTIFIED BY

COMPANY: Aquarius Resources

PROJECT No.: Gilt Creek

ATTENTION:

GEOCHEMICAL ANALYSIS DATA SHEET

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

No. 1-750

DATE: Sept. 9, 1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb
L25N4+00E									55			5
4+50E									25			5
5+00									105			5
5+50									115			5
6+00									75			5
6+50									25			5
7+00									85			10
7+50									75			5
8+00									70			10
8+50									15			5
9+00									65			5
9+50									75			5
10+00									65			5
10+50									60			5
L25N11+00E									75			5
L22N0+50E									100			10
1+00									45			5
1+50									10			5
2+50									40			5
3+00									30			5
3+50									25			5
4+00									55			5
4+50									45			5
5+00									90			5
6+00									80			5
6+50									65			5
7+00									75			5
7+50									85			5
8+50									60			5
L22N9+00E									55			5

CERTIFIED BY

COMPANY: Aquarius Resources

PROJECT No.: Gilt Creek

ATTENTION:

GEOCHEMICAL ANALYSIS DATA SHEET

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

File No. 1-750

DATE: Sept. 9 1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb
L22N9+50E									40			5
L24N0+00E									130			5
1+00									100			5
1+50									60			30
2+00									80			5
3+00									25			5
3+50									30			5
4+50									35			5
5+00									10			5
5+50									95			5
6+00									95			5
6+50									75			5
7+00									80			5
7+50									85			5
8+00									125			5
8+50									95			5
L24N9+00E									100			5
L17N0+00E									120			5
0+50									100			5
1+00									50			10
1+50									70			5
3+00									120			5
3+50									55			10
4+00									85			5
4+50									80			5
5+00									60			5
5+50									1140			5
6+50									20			10
7+00									75			5
L17N7+50E									90			10

CERTIFIED BY

COMPANY: Aquarius Resources

PROJECT No.: Gilt Creek

ATTENTION:

GEOCHEMICAL ANALYSIS DATA SHEET

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

P.O. No.: 1-750

DATE: Sept. 9, 1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb
L17N8+00E									35			5
L18N0+50E									35			5
1+00E									65			5
1+50E									65			5
2+00E									70			5
2+50E									40			<5
3+00E									60			5
3+50E									30			5
4+00E									45			5
4+50E									25			5
5+00E									35			<5
5+50E									40			5
6+00E									45			10
6+50E									55			5
7+00E									35			5
7+50E									50			5
8+00E									25			5
8+50E									35			5
9+00E									30			5
9+50E									35			15
L18N10+00E									40			5

CERTIFIED BY

COMPANY: Aquarius Resources

PROJECT No.: Gilt Creek

ATTENTION:

GEOCHEMICAL ANALYSIS DATA SHEET

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

No. 1-750

DATE: Sept. 9 1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb		
BL13N0+00E									45			5		
0+50									65			5		
1+00									50			30		
1+50									35			5		
2+00									60			5		
2+50									50			5		
3+00									60			5		
3+50									85			5		
4+00									45			5		
4+50									60			5		
5+00									45			5		
5+50									35			5		
6+00									30			5		
6+50									30			5		
7+00									20			5		
7+50									25			5		
8+00									80			5		
8+50									50			5		
9+00									30			5		
9+50									35			5		
BL13N10+00E									20			5		
BL14N0+00E									60			5	(40mesh)	
0+50									50			5		
1+00									60			5		
1+50									55			5		
2+00									60			5		
2+50									55			5		
3+00									65			5		
3+50									no sample					
BL14N4+00E									60			5		

CERTIFIED BY

COMPANY: Aquarius Resources

PROJECT No.: Gilt Creek Spuzzum

ATTENTION:

GEOCHEMICAL ANALYSIS DATA SHEET

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

FILE No. 1-750

DATE: Sept.9 1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb
BL14N4+50E									no sample			
5+00									55			10
5+50									50			10
6+00									60			5
6+50									20			5
7+00									40			5
7+50									25			5
8+00									5			5
8+50									20			5
9+00									60			10
9+50									75			5
10+00									45			5
BL14N10+50E									no sample			
BL15N0+00E									30			10
0+50									20			5
1+00									40			5
1+50									115			5
2+00									no sample			
2+50									25			10
3+00									30			5
3+50									30			5
4+00									65			5
4+50									55			5
5+00									no sample			
5+50									35			5
6+00									45			5
6+50									60			5
7+00									20			10
7+50									30			5
BL15N8+00E									20			5

CERTIFIED BY

APPENDIX II

CERTIFICATE OF ASSAY

[redacted] Resources

PAGE No. 1

920 - 475 Howe Street
Vancouver, B.C.

BONDAR-CLEGG & COMPANY LTD.

CERTIFICATE OF ASSAY

REPORT NO. [redacted] - 12[redacted]

DATE: September 16, 1981

Samples submitted: August 28, 1981
Results completed: September 16, 1981

PROJECT: Mike (Spu) HIDDEN CREEK GP.

I hereby certify that the following are the results of assays made by us upon the herein described rock samples.

MARKED	GOLD		SILVER									
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
MIKE L [redacted] 3+00W	<0.002											
L [redacted] 4+75W	<0.002											
L9[redacted] 2+00W	<0.002											
L15S 1+50W	<0.002											
L24S 0+50W	<0.002											

cc Aquarius Resources - Hope

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia

APPENDIX III

Assessment Work Details

Personnel

1 Geologist, Aug 1-24, 1981	
24 days @ $200/day	$ 4,800.00
1 Geological Assistant	
Aug 1-24, 1981	
24 days @ $150/day	3,600.00
4 Field Assistants	
Aug 1-15, 1981	
15 days @ $100/day	6,000.00
3 Field Assistants	
Aug 16-24, 1981	
8 days @ $100/day	2,400.00

Field Expenses

Soil Sample Analysis	
335 samples @ $10.35/sample	3,467.25
Bulk Rock Assay	
5 samples @ $9.75/sample	48.75
Vehicle Expense	
3, 4 x 4 @ $450/mo	1,350.00
Fuel & Maint.	741.40
Field Supplies	202.60

Camp Costs

Cook, Aug 1-24, 1981	800.00
Food and supplies	2,600.00

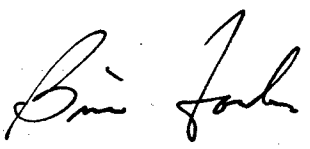
Cont'd.....

APPENDIX III (cont'd)

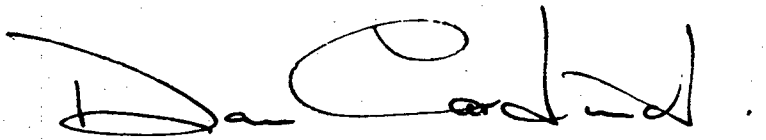
Report Preparation

Report writing	
12 days @ $200/day	$ 2,400.00
Typing and office	
10 hrs @ $14/hr	140.00
Drafting	
40 hrs @ $18.50/hr	740.00
Reproduction, collation, binding, etc, of report	400.00
Total Assessment costs	$29,690.00
PAC Withdrawal	1,910.00
Total Assessment Applied	$31,600.00

Respectfully submitted



Brain Fowler, B.Sc. (Geol)



Dan Cardinal, B.Sc. (Geol), P. Geol.
September, 1981
Vancouver, B. C.

APPENDIX IV

Bibliography

Cairnes, C.E.; 1929 — The Serpentine Belt of the Coquihalla Region, Yale District, B. C., G.S.C. Summary Report No. 1929-A

Cairnes, C. E.: 1924 — Coquihalla Area, B. C., G.S.C. Memoir 139

Cochrane, D.R.: 1980 — Geochemical Assessment Report on portions of the Last Group and Hidden Creek Group

Littlejohn, A.L.: 1977 — Reconnaissance Geological and Geochemical Survey of the Northern Section, Coquihalla Serpentine Belt, B. C. Assessment Report

APPENDIX V

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, V0X 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.

Daniel G. Cardinal, P. Geol.
September, 1981.

APPENDIX V

Certificate:

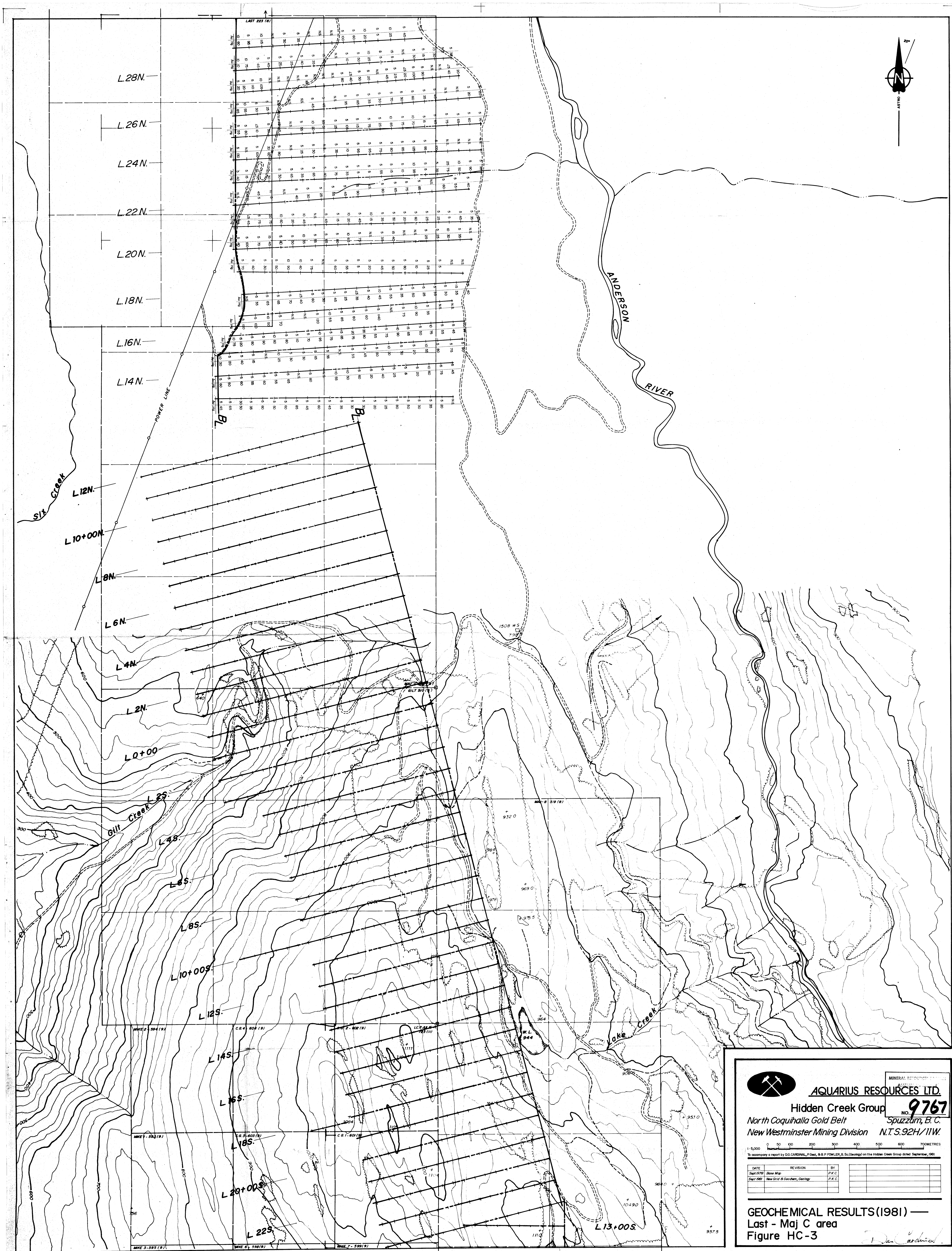
I, Brian P. Fowler of the Municipality of Hope, British Columbia, do hereby certify that:

1. I am a Junior Geologist residing in Hope, British Columbia, mailing address, P. O. Box 1465, Hope, British Columbia, V0X 1L0.

2. I am a graduate of the University of Alberta (1981) with a B.Sc degree in Geology, specializing in Petroleum

3. Upon graduation, I have been employed in the capacity of Junior Geologist by Aquarius Resources Ltd., to aid in geologic mapping and geochemical surveys within the Coquihalla Gold Belt.

Brian P. Fowler, B.Sc. (Geol)
September, 1981,
Vancouver, B. C.



AQUARIUS RESOURCES LTD.

Hidden Creek Group

North Coquihalla Gold Belt — *Spuzzum, B.C.*

New Westminster Mining Division — *N.T.S.92H/11W.*

1:5,000 — 0 50 100 200 300 400 500 600 700 METRES

To accompany a report by D.G. CARDINAL, P.Geol., & B.P. FOWLER, B.Sc.(Geology) on the Hidden Creek Group dated September, 1981

DATE	REVISION	BY
Sept.1978	Base Map	P.K.C.
Sept 1981	New Grid & Geochem, Geology	P.K.C.

MINERAL RESOURCES BRANCH ASSESSMENT REPORT NO. 9767

GEOCHEMICAL RESULTS (1981) — Last - Maj C area

Figure HC-3

D. Cardinal

L.12N.
L.11N.
L.10N.
L.9+50N.
L.9N.
L.8+50N.
L.8N.
L.7N.
L.6N.
L.5N.
L.4N.
L.2N.
L.0+00
L.2S.
L.4S.
L.6S.
L.8S.
L.10+00S.
L.12S.
L.20+00N.
L.18N.
L.16N.
L.14N.
L.12N.
L.10+00N.
L.8N.
L.6N.
L.4N.
L.14N.
L.12N.
L.10N.
L.8N.
L.6N.
L.4N.
L.2N.
L.0
L.2S.
L.4S.
L.6S.
L.8S.
L.10S.
L.12S.
L.1
L.2
L.3

MIKE 6 598(9)
MIKE 5 597(9)
MIKE 4 600(9)
JULIE 1 723 (9)
L.C.P. MAJ A — 867 (2)
L.C.P. MAJ B — 39 (8)
L.C.P. SPUZ C — 315 (8)
L.C.P. SPUZ D — 314(8)

Hidden Creek
Mile 0
7 Mile Lake
W.L. 755.0
W.L. 804.0
W.L. 848.0

1E.
2E.
3E.
4E.
5E.
6E.

LEGEND

- Chert, slate, argillite — Andesitic, volcanic greenstone — Serpentine — HOZAMEEN GROUP (PALEOZOIC)
- Slates — Lithic/volcanic wackes — Quartz feldspathic intrusive (minor gabbro — LADNER GROUP (JURASSIC)
- 255/72 Strike / Dip
- Outcrop
- Antiform
- Synform
- CONTACT — DEFINED / INFERRED
- FAULT — DEFINED / INFERRED

AQUARIUS RESOURCES LTD.

Hidden Creek Group

North Coquihalla Gold Belt — Spuzzum, B.C.

New Westminster Mining Division — N.T.S. 92H/11W

1:5,000 0 50 100 200 300 400 500 600 700 METRES

To accompany a report by D.G. CARDINAL, P.Geol., & B.P. FOWLER, B.Sc. (Geology) on the Hidden Creek Group dated September '81.

DATE	REVISION	BY
Sept 1978	Base map	P.K.C.
Sept 1980	New Grid & Geochem	P.K.C.
Sept 1981	New Geochem & Geology	P.K.C.

GEOLOGY — Maj A & Maj B area

Figure HC-6

Dan Cardinal

MINERAL TITLES BRANCH
ASSESSMENT REPORT
NO. 9767

LAST 223 (8)

L.28N.
L.26N.
L.24N.
L.22N.
L.20N.
L.18N.
L.16N.
L.14N.
L12N.
L10+00N.
L8N.
L6N.
L4N.
L2N.
L0+00
L2S.
L4S.
L6S.
L8S.
L10+00S.
L12S.
L14S.
L16S.
L18S.
L20+00S.
L22S.
L13+00S.

POWER LINE
Silt Creek
Gill Creek
ANDERSON RIVER
Lake Creek

N 22°
ASTRO

LEGEND

- Chert, slate, argillite — Andesitic volcanic greenstone — HOZAMEEN GROUP (PALEOZOIC)
- Serpentine
- Slates — Lithic/volcanic wackes — LADNER GROUP (JURASSIC)
- Quartz feldspathic intrusive (minor gabbro)

255/72 Strike / Dip

Outcrop

	DEFINED	INFERRED
CONTACT		
FAULT		

MAJ-B 319 (8)
GILT 310 (8)
MIKE 2 - 594 (9)
MIKE 1 - 593 (9)
MIKE 3 - 595 (9)
MIKE 6 - 598 (9)
BASE 7 - 599 (9)
C.G.4 - 604 (9)
C.G.3 - 603 (9)
C.G.2 - 602 (9)
C.G.1 - 601 (9)
1508 W.S.
W.L. 944

AQUARIUS RESOURCES LTD.

Hidden Creek Group

North Coquihalla Gold Belt — Spuzzum, B.C.

New Westminster Mining Division — N.T.S. 92H/11W.

1:5,000 0 50 100 200 300 400 500 600 700 METRES

To accompany a report by D.G. CARDINAL, P.Geol, & B.P. FOWLER, B.Sc.(Geology) on the Hidden Creek Group dated September, 1981

DATE	REVISION	BY
Sept 1978	Base Map	P.K.C.
Sept 1981	New Grid & Geothem, Geology	P.K.C.

GEOLOGY —— Last - Maj C area

Figure HC-4

Dan Cardinal

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 9767