

5593

GEOCHEMICAL REPORT
YUKON GOLD PLACER LTD.
CONSOLIDATED STANDARD MINES LTD.
VAN SILVER EXPLORATIONS LTD.

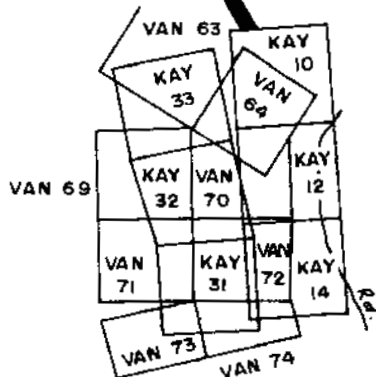
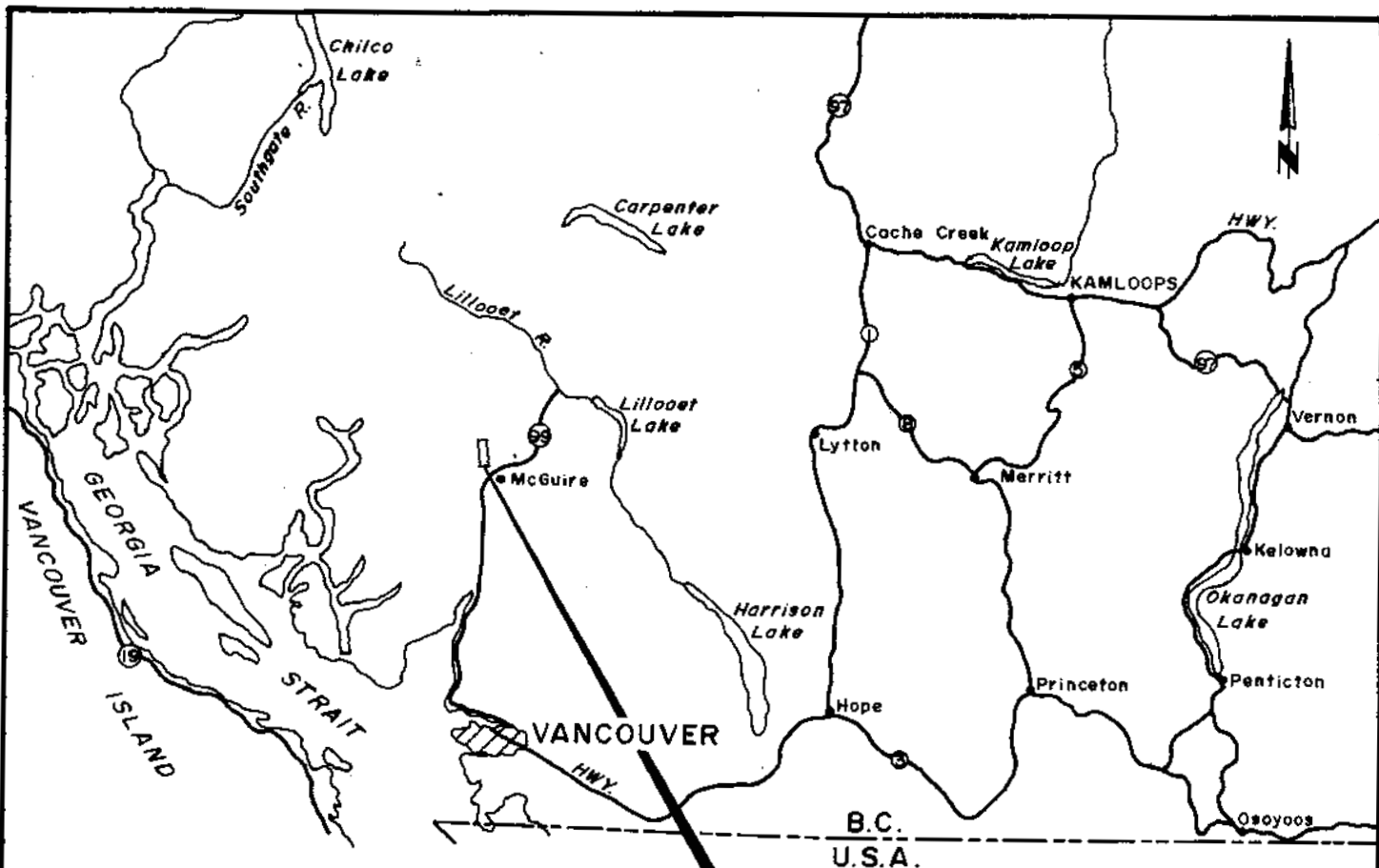
Van and Kay Mineral Claims, Brandywine Falls
area, Vancouver Mining Division, B.C.
Lat. 50°06'N Long. 123°08'W N.T.S. 92 J/3

AUTHOR: Glen E. White, B.Sc.
P. ENG: E. D. Cruz
DATE OF WORK: October 21, 23, 1974
DATE OF REPORT: December 4, 1974

92J/3E CLAIMS: VAN, KAY

92J/3E

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5593 MAP



Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. 5593 MAP 1

CONSOLIDATED STANDARD MINES LTD.
 YUKON GOLD PLACER LTD.
 VAN SILVER EXPLORATIONS LTD.
 VAN & KAY CLAIMS
 LOCATION AND CLAIMS MAP

SCALE : LOCATION MAP : 1" = 40 MILES APPROX.

CLAIMS MAP : 1/2" = 1500 APPROX.

Glen & White
 geographical consulting
 8
 VANCOUVER LTD.

C O N T E N T S

	<u>PAGE</u>
Introduction.....	1
Property.....	1
Location and Access.....	1
Previous Work.....	1
Physiography.....	2
General Geology.....	2
Survey Specifications	
(1) Survey Grid.....	2
(2) Geochemical Survey.....	3
Discussion of Results.....	3 - 4
Conclusion and Recommendation.....	4 - 5
Statement of Qualifications - G. E. White.....	6
Certificate.....	7

Illustrations

- 1 Figure 1 - Location and Claims Map
- 2 " 2 - Geochemistry Map - Copper
- 3 " 3 - " " - Lead
- 4 " 4 - " " - Silver
- 5 " 5 - " " - Zinc
- 6 " 6 - " " - Gold
- 7 " 7 - Interpretation Map

INTRODUCTION

The purpose of this report is to discuss a limited soil sampling program conducted over a portion of the Van and Kay mineral claims. The detail soil sampling was completed over an area of interest located by an old Noranda geochemical survey. The field work was conducted during the days October 21-23, 1974.

PROPERTY

The property discussed in this report consists of mineral claims Van 63-64, 69-74 and Kay 10, 12, 14 and 31-33 as illustrated in Figure 1.

LOCATION AND ACCESS

The Kay and Van mineral claims are located on the west side of Callaghan Creek, Brandywine Falls area, Vancouver Mining Division, B.C., Latitude 50°06'N, Longitude 123°08'W and N.T.S. 92 J/3.

Logging roads give facile access to the area of interest which is some 3 miles up Callaghan Creek from the Vancouver-Alta Lake highway. A new logging road which is in the process of being built, branches westward some 2 1/3 miles from the highway and gives excellent access into the heart of the survey area.

PREVIOUS WORK

Van Silver Explorations Ltd. provided the Noranda geochemical data over the Van claims, and the two companies Yukon Gold Placer Ltd. and Consolidated Standard Mines Ltd. the geochemical data on the Kay claims. These surveys were used to control the geochemical soil sampling discussed in this report.

PHYSIOGRAPHY

The Kay claims group lies along Callaghan Creek which flows in a broad valley between Mt. Sproatt on the east and Brandywine Mountain on the west. The detail survey area lies along the eastern flank of Brandywine Mountain, thus all the surface drainage is southeastward. The survey grid is within a mature stand of timber which is in the process of being logged. The undergrowth is moderate, consisting largely of salal and rain forest blueberries. The eastern portion of the survey area is quite swampy with apparently fairly deep glacial detritus.

GENERAL GEOLOGY

The very little geological information available for this region is shown on G.S.C. Maps 1711 and 42-1963. Essentially, the host rocks for the mineralization are sediments and volcanics of Triassic to Cretaceous age which have been enveloped by the Coast Range Cretaceous or earlier granodiorites and granites.

The sedimentary and volcanic rocks show variable degrees of metamorphism but are thought to form pendants or septas in the Coast Range batholith.

To the northeast of the Van and Kay claims, the mineral discovery made by Northair Mines Ltd. on their Warman claims shows veins of quartz and carbonate in metamorphosed rocks bearing lead, zinc and copper mineralization with economically significant values of gold and silver.

SURVEY SPECIFICATIONS

Survey Grid

The survey area is covered by two survey grids, one which controlled the soil sampling on the Kay claims and the other on the Van claims. The baseline on the Kay claims is orientated at approximately 350° with traverse lines turned off at right angles every two hundred feet. The baseline on the Van claims is almost due north-south with lines turned off every 400 feet. The two survey grids were tied together and then an area controlled by the westernmost baseline was resampled at 100 foot intervals along lines spaced 200 feet apart.

Geochemical Survey

Soil samples of the upper "B" horizon were obtained with mattocks or soil augers, depending upon the depth of the "A₀" horizon, at 100 foot intervals along the grid lines. The sample was then placed in a soil envelope provided by Chemex Labs Ltd. of North Vancouver, B.C. The samples were delivered to the above lab where -80 mesh sieving, digestion by hot perchloric-nitric acid and analysis by atomic absorption were carried out under the supervision of professional geochemists.

Some 180 soil samples were obtained and analysed for p.p.m. copper, lead, silver and zinc and p.p.b. gold. The soil samples for the Kay claims, which were in storage at Chemex Labs Ltd., were also analysed for p.p.b. gold.

DISCUSSION OF RESULTS

The copper, lead, silver, zinc and gold geochemical results are illustrated on Figures 2 - 6 respectively. Figure 7, the interpretation map, is a compendium of all the data. The area that was resampled extends from line 228N to line 248N. The previous grid stopped at line 240N.

The copper geochemical data shows only spotty results. The strongest anomaly occurs along the baseline from lines 240N to 244N and supports a high of 410 p.p.m. copper. The lead results on the otherhand are very positive with two values over 1000 p.p.m. and a good number above 300 p.p.m. which is significant in this acid rain forest environment. The values show a general north-northeasterly trend which could not be formed by ionic dispersion patterns as the slope is more east-west.

The zinc geochemical map shows the same north-northeasterly trends and contains several values over 2000 p.p.m. which is usually indicative of near surface mineralization. The silver geochemical results located one specific zone of interest also trending north-northeasterly, between lines 240N and 246N. The gold values are very spotty as would be expected, but in each case they are associated with the geochemical trends of one of the other elements copper, lead or zinc.

Figure 7, the interpretation map, summarized the various element trends and highlights their degree of coincidence. Thus, the inter-relationship of the four elements appears to outline four parallel mineral sources which have been designated A - C. These mineral sources appear to be trending northeasterly; however, the topography is relatively steep, 30° - 50° and therefore it is possible that the actual veins trend more northerly and that the apparent northeasterly direction is due to ionic dispersion. Thus, the location of the geochemical sources are shown as inferred mineral zones and possible extensions.

The inferred faults are a result of topographic linears and fault zones noted along the logging roads. Thus, though the geochemical sources may not be as interpreted, it is interesting to note that source A, as shown on lines 232N and 244N, has the same relative intensities of copper, lead and zinc (only silver shows up slightly stronger on line 232N to 236N). Zone B contains high values in copper, lead and zinc with weak values of silver. Both zones A and B have spotty gold values. Zones C and D are based on much weaker geochemical trends and are therefore largely inferred.

CONCLUSION AND RECOMMENDATION

During the later part of October 1974, a limited amount of line cutting and soil sampling was completed over the Van and Kay mineral claims on behalf of Consolidated Standard Mines Ltd., Yukon Gold Placer Ltd. and Van Silver Explorations Ltd.

The survey located a number of strong geochemical responses which trend in definite patterns and have been designated inferred mineral zones A, B, C and D. Zones A and B are strongly anomalous and likely reflect near surface copper, lead and zinc-bearing mineralization with possible values of gold and silver.

Thus, it is recommended that these zones be prospected and examined geologically. It is also considered that ground magnetometer, V.L.F. electromagnetometer and self-potential surveys which have been used successfully at Northair Mines Ltd. should be conducted over the areas of geochemical and geological interest to determine optimum areas for trenching and/or diamond drilling.

Respectfully submitted,
GLEN E. WHITE GEOPHYSICAL
CONSULTING & SERVICES LTD.



Glen E. White B.Sc.
President

STATEMENT OF QUALIFICATIONS

Name: WHITE, Glen E.

Profession: Geophysicist

Education: B.Sc. Geophysics - Geology
University of British Columbia

Professional Associations: Associate member of Society of Exploration Geophysicists.

Active member B.C. Society of Mining Geophysicists.

Experience: Pre-Graduate experience in Geology - Geochemistry - Geophysics with Anaconda American Brass.

Two years Mining Geophysicist with Sulmac Explorations Ltd. and Airborne Geophysics with Spartan Air Services Ltd.

One year Mining Geophysicist and Technical Sales Manager in the Pacific north-west for W. P. McGill and Associates.

Two years Mining Geophysicist and supervisor Airborne and Ground Geophysical Divisions, with Geo-X Surveys Ltd.

Two years Chief Geophysicist Tri-Con Exploration Surveys Ltd.

Three years Consulting Geophysicist.

Active experience in all Geologic provinces of Canada.

C E R T I F I C A T E

I, Ernesto D. Cruz, DO HEREBY CERTIFY AS FOLLOWS:

- (1) That I am a Consulting Mining Engineer and reside at 8596 Terrace Dr., Delta, B.C.
- (2) That I am a Graduate of Mapua Institute of Technology Phillipines (B.A.Sc.) and University of Washington (M.A.Sc.) in the Faculty of Mining Engineering.
- (3) That I am a registered P. ENG in the Association of Professional Engineers in the province of British Columbia.
- (4) That I have practised geological engineering for eleven (11) years.
- (5) That I have reviewed a report dated December 4, 1974 based on work conducted by Glen E. White Geophysical Consulting and Services Ltd. under the supervision of Glen E. White, B.Sc., Geophysicist, and concur with the findings therein.
- (6) That this report consists of 7 typewritten pages and six maps.
- (7) That I have no interest directly or indirectly in the Van or Kay mineral claims or the securities of Yukon Gold Placer Ltd., Consolidated Standard Mines Ltd. or Van Silver Explorations Ltd. nor do I expect to acquire or receive any.

DATED at Vancouver, British Columbia, this 4th day of December, 1974.

ERNESTO D. CRUZ, P. ENG



Ernesto D. Cruz, P. ENG

DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA:
To Wit:

In the Matter of Geochemical Survey Van
and Kay claims

I, Glen E. White

of Glen E. White Geophysical Consulting & Services Ltd.

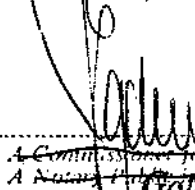
in the Province of British Columbia, do solemnly declare that the costs were as follows:

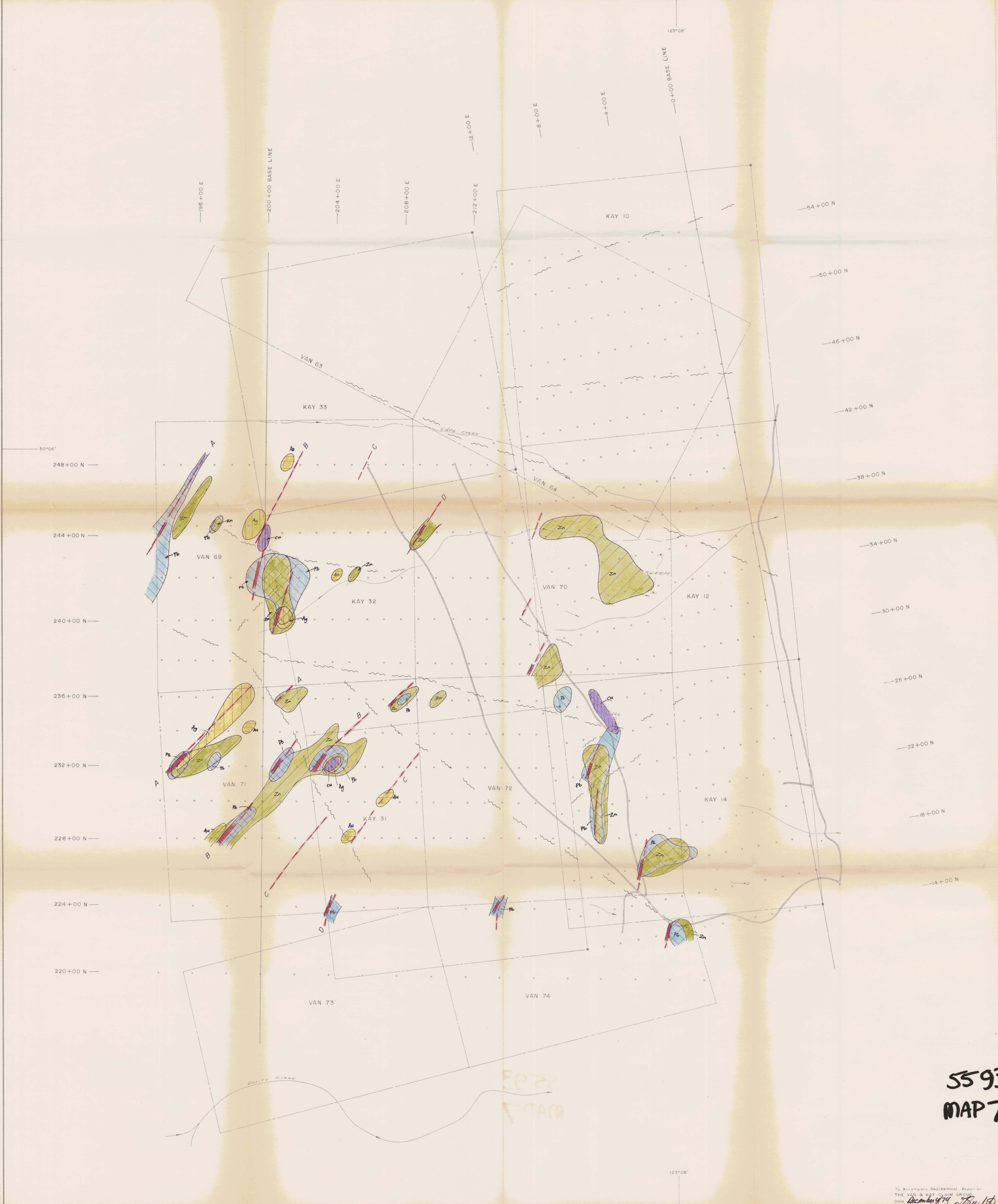
<u>PERSONNEL</u>	<u>PERIOD</u>	<u>WAGES</u>	<u>TOTAL</u>
G. White.....	October 21-23/74.....	\$90/day.....	\$270.00
T. Ashworth.....	"....."	70/day.....	210.00
Vehicle 4x4 including gas -		\$30/day.....	90.00
Meals and Accomodations @		\$25/day.....	150.00
Sample Analysis - 175 - Au, Ag, Cu, Pb, Zn.....			933.00
- 411 - Au.....			1130.00
Drafting, Interpretation and Report.....			600.00
		Total.....	<u>\$3383.00</u>

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *10th*
day of *December*, 1974, A.D.

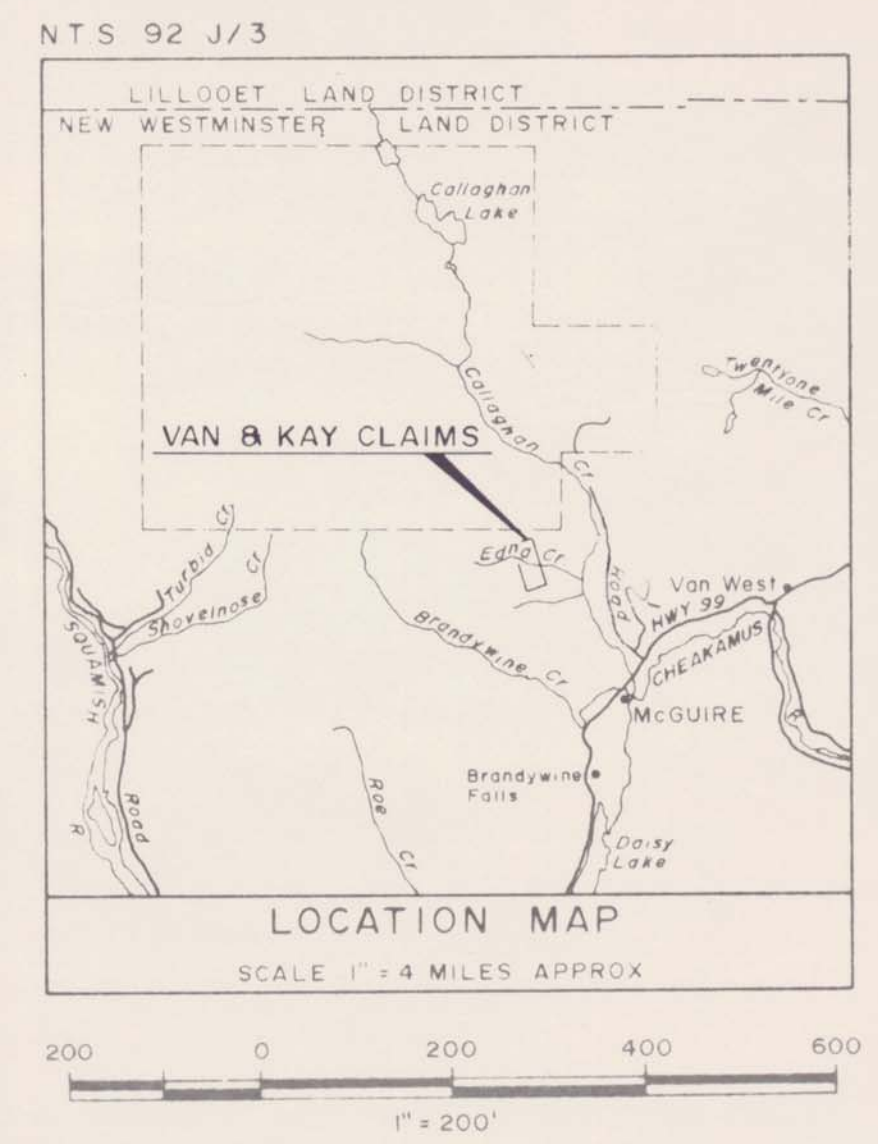



A Commissioner for taking Affidavits for British Columbia or
A Notary Public and for the Province of British Columbia.
Gold Commissioner



- LEGEND**
- Contour Line, Contour Interval
 - Stations
 - - - Outline of Claims
 - ▬ Claim Path
 - Unpaved Road
 - - - Inferred Fault
 - Anomalous Lead
 - Anomalous Zinc
 - Anomalous Copper
 - Anomalous Silver
 - Anomalous Gold
 - ▬ Inferred Mineral Zone & Possible Extension

Department of
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ASSESSMENT REPORT
NO. 5593 MAP 7



**5593
MAP 7**

CONSOLIDATED STANDARD MINES LTD.
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VAN SILVER EXPLORATIONS LTD.
VANCOUVER MINING DIVISION - BRITISH COLUMBIA

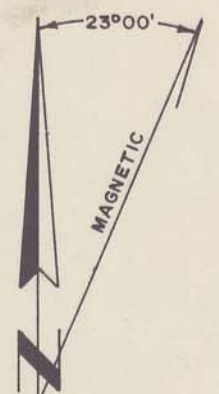
GEOCHEMICAL MAP
— INTERPRETATION MAP —
VAN & KAY CLAIMS

Interpreted by: G.E.W.	Drawn by:
Checked by:	Date: OCT 23, 1974
FIG. No. 7	

Glen E. White
geophysical consulting
services Ltd.

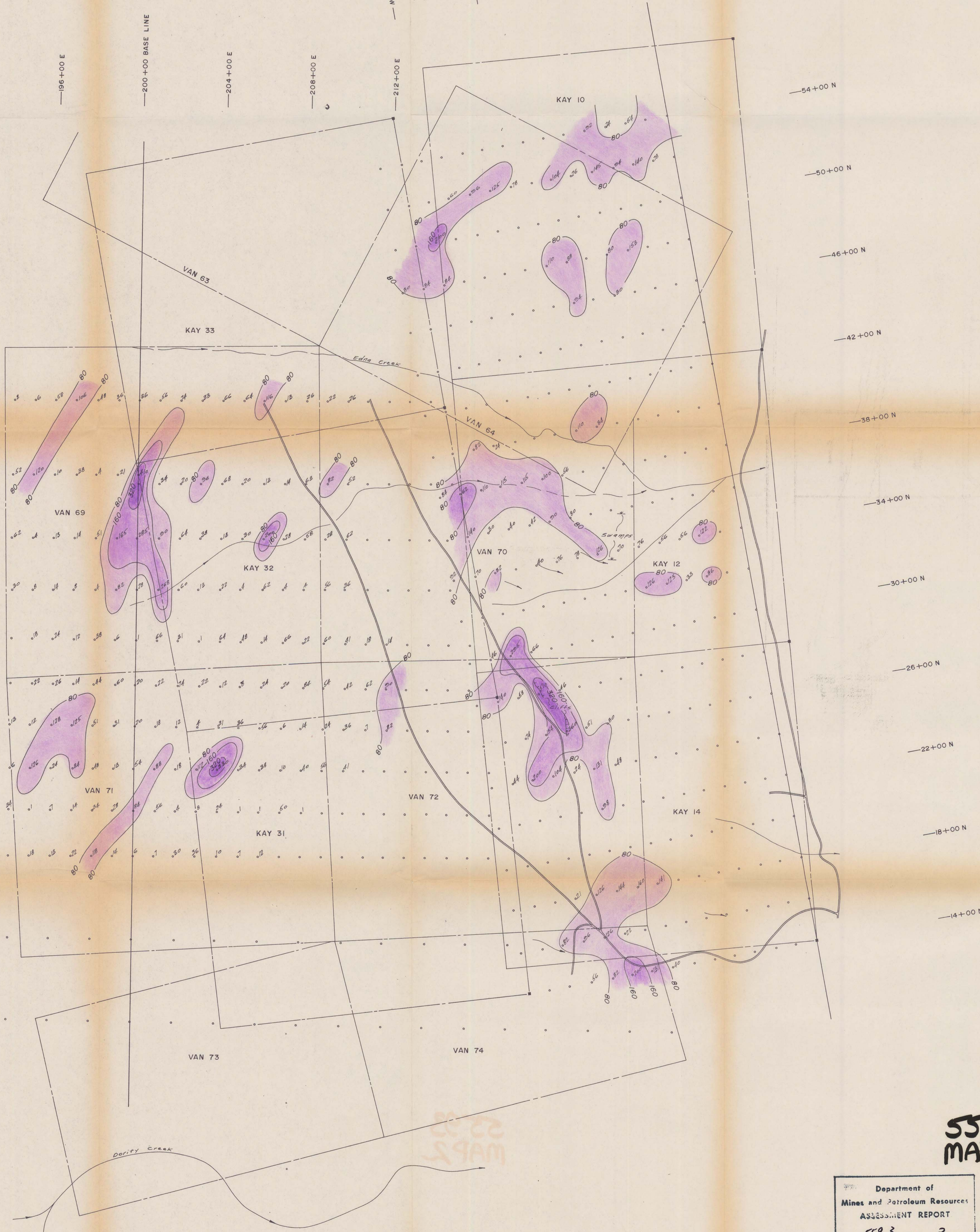
To Accompany Geochimical Report on
THE VAN & KAY CLAIM GROUP
Date: December 1974
By: GLEN E. WHITE B.Sc. *G.E.W.*

123°08'

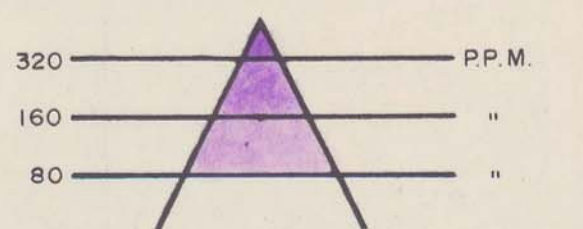


LEGEND

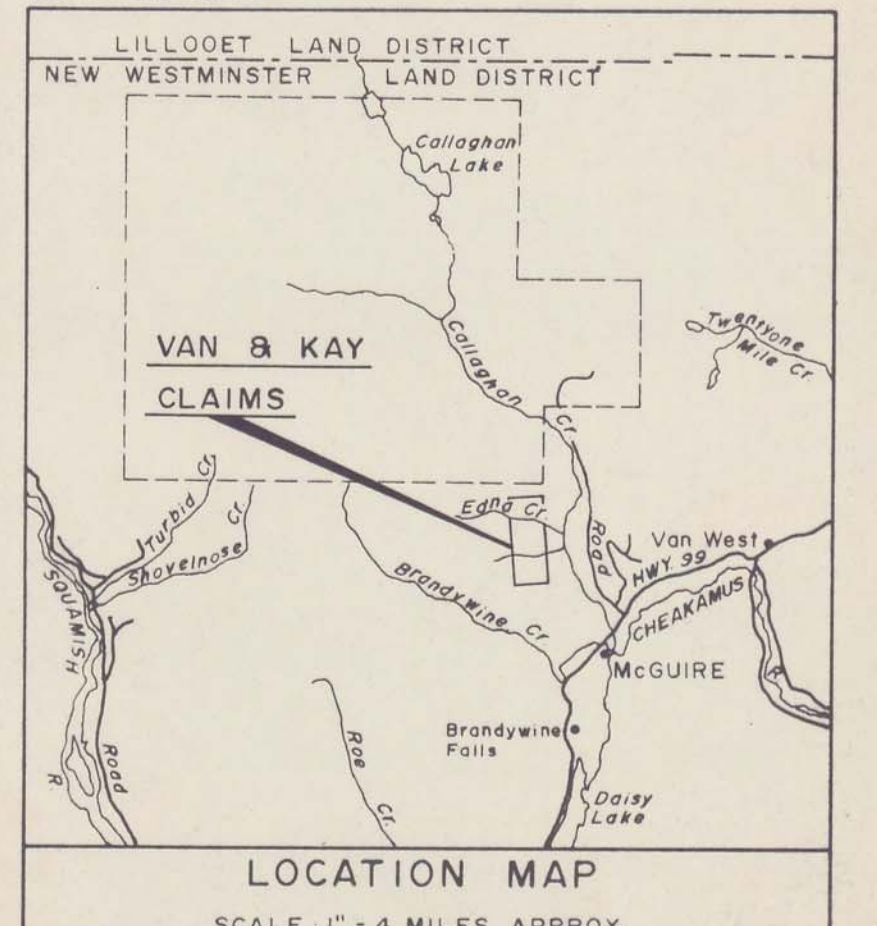
- Contour Line, Contour Interval 80, 160, 320 P.P.M.
- Stations
- Outline of Claims
- Claim Posts
- Unpaved Roads



COPPER KEY



NTS 92 J/3



**5593
MAP 2**

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ASSESSMENT REPORT
NO. 5593 MAP 2

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VANCOUVER MINING DIVISION - BRITISH COLUMBIA

GEOCHEMICAL MAP
COPPER P.P.M.
VAN & KAY CLAIMS

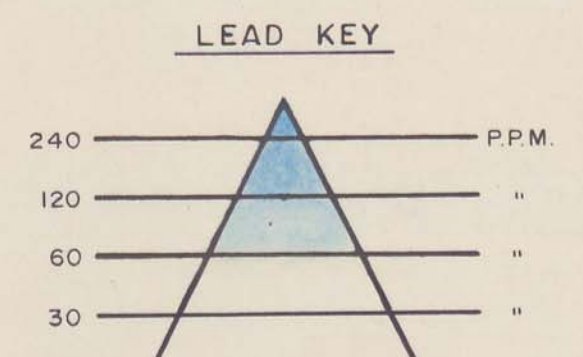
Glen E. White
geophysical consulting
Interpreted by: G.E.W.
Checked by:
Date: OCT. 23, 1974
FIG. No.: 2

To Accompany Geochemical Report on
THE VAN & KAY CLAIM GROUP
Date: December 1974
By: GLEN E. WHITE - G.E.W. [Signature]

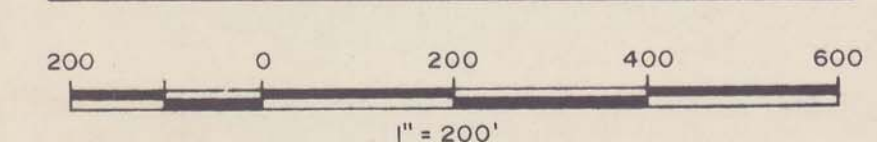
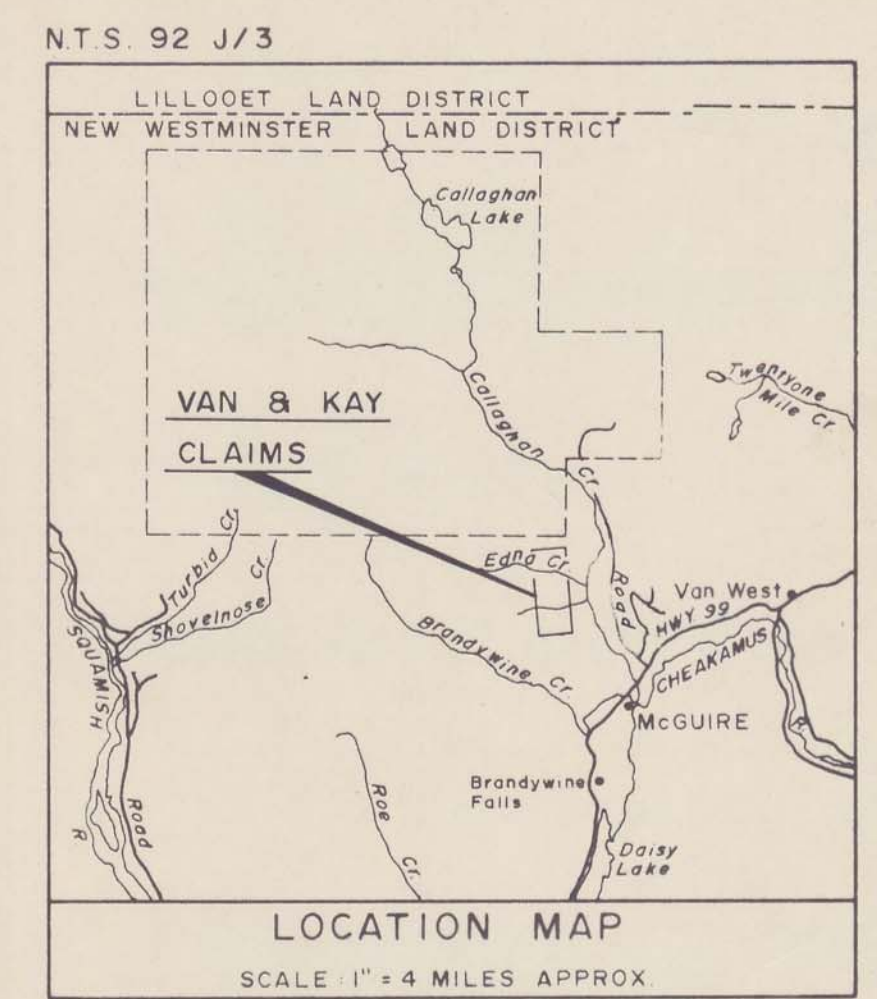
123°08'



- LEGEND**
- Contour Line, Contour Interval 30,60,120,240,480 P.P.M.
 - Stations
 - - - Outline of Claims
 - Claim Posts
 - == Unpaved Roads



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NO. 5593 MAP 3



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MAP 3**

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VANCOUVER MINING DIVISION - BRITISH COLUMBIA

GEOCHEMICAL MAP
LEAD P.P.M.
VAN & KAY CLAIMS

INTERPRETED BY: G.E.W.
DRAWN BY: <i>Glen E. White</i>
CHECKED BY: <i>Glen E. White</i>
DATE: OCT. 23, 1974
FIG. No. 3

Glen E. White
geophysical consulting
&
services Ltd.

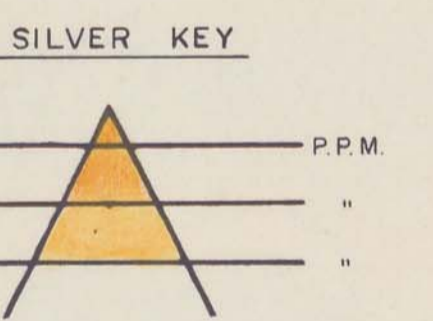
To Accompany Geochemical Report on
THE VAN & KAY CLAIM GROUP
Date *March 1974*
By GLEN E. WHITE & *Glen E. White*

*5593
MAP 3*

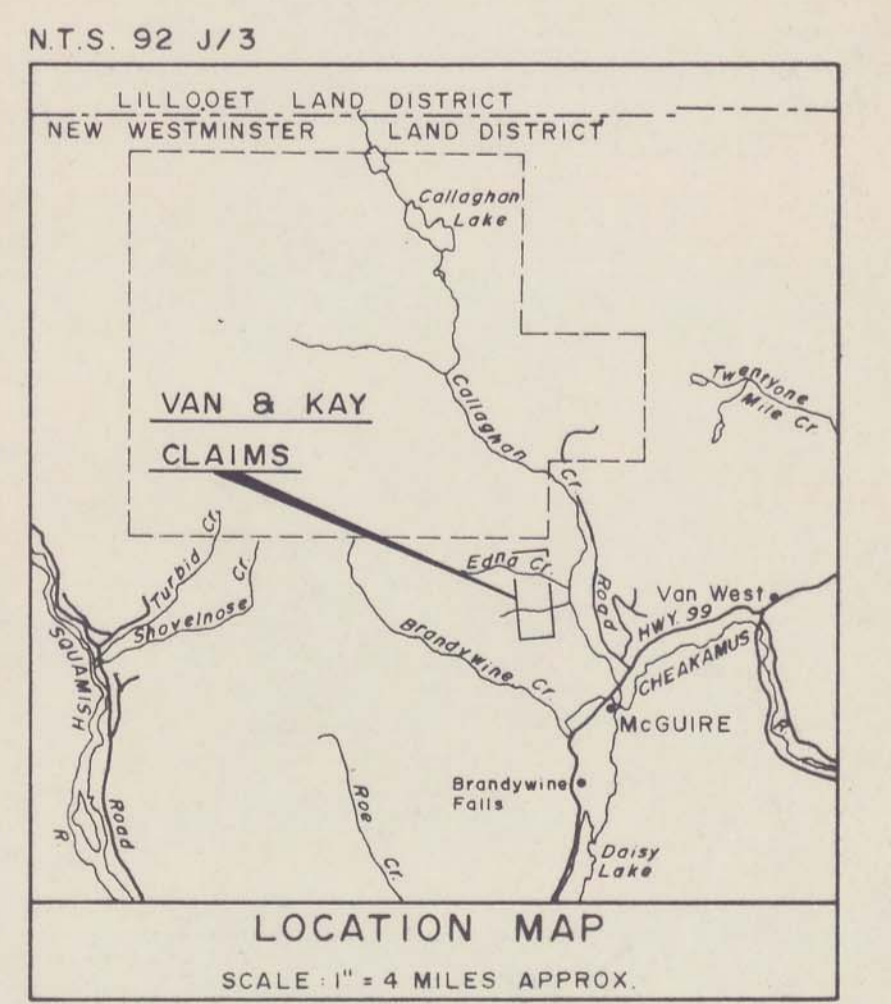


LEGEND

- Contour Line, Contour Interval: 0.8, 1.6, 3.2 P.P.M.
- Stations
- Outline of Claims
- Claim Posts
- Unpaved Roads



Department of
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ASSESSMENT REPORT
NO. 5593 MAP 4



NTS. 92 J/3
SCALE 1" = 4 MILES APPROX.
1" = 200'

**5593
MAP 4**

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VAN SILVER EXPLORATIONS LTD.
VANCOUVER MINING DIVISION - BRITISH COLUMBIA

GEOCHEMICAL MAP
SILVER P.P.M.
VAN & KAY CLAIMS

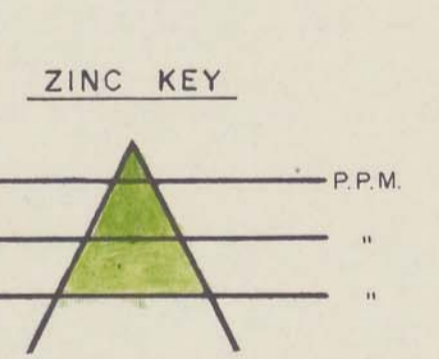
INTERPRETED BY: G.E.W.
DRAWN BY:
CHECKED BY:
DATE: OCT. 23, 1974
FIG. No. 4

To Accompany Geochemical Report on
THE VAN & KAY CLAIM GROUP
Date: *December 1974*
By: GLEN E. WHITE & *Glen E. White*
services Ltd.

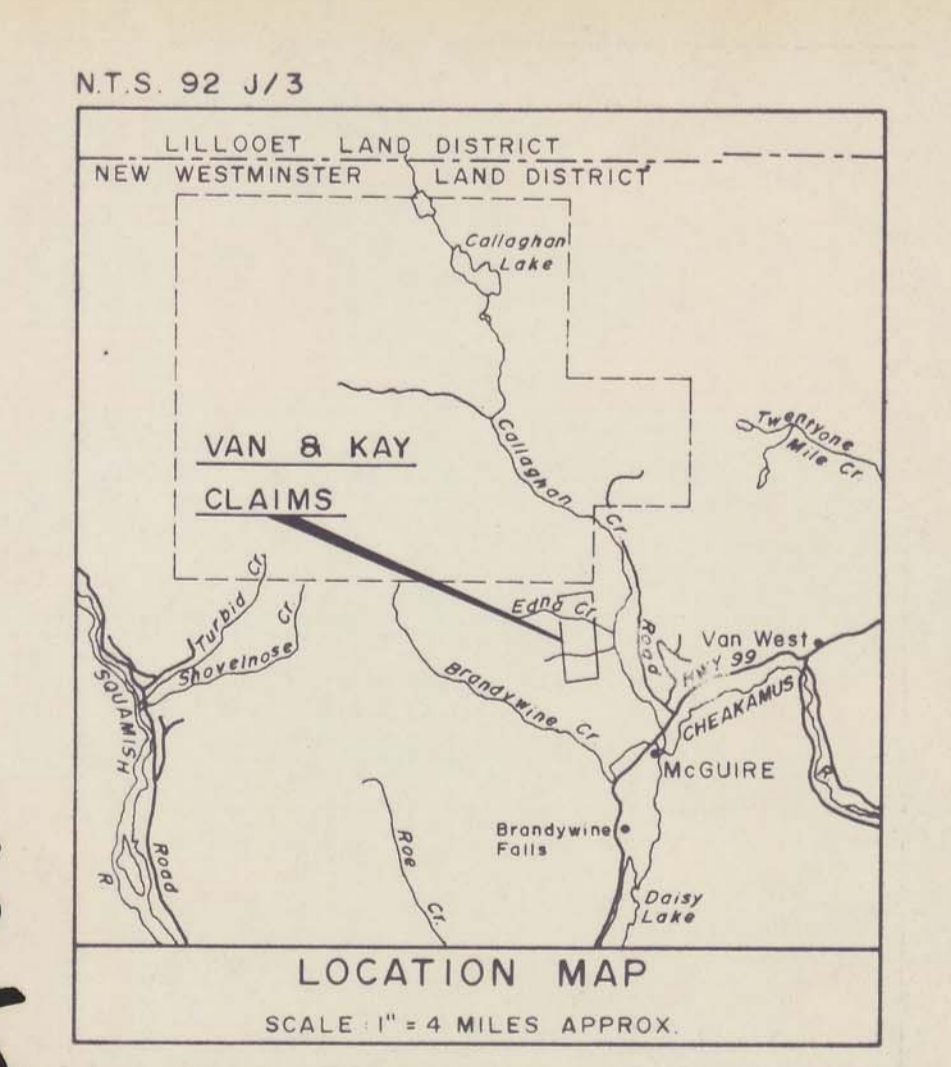


LEGEND

- Contour Line, Contour Interval: 150, 300, 600, 1200 P.P.M.
- Stations
- - - Outline of Claims
- Claim Posts
- == Unpaved Roads



Department of
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ASSESSMENT REPORT
NO. 5593 MAP 5



**5593
MAP 5**

CONSOLIDATED STANDARD MINES LTD.
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VAN SILVER EXPLORATIONS LTD.
VANCOUVER MINING DIVISION - BRITISH COLUMBIA

GEOCHEMICAL MAP
ZINC P.P.M.
VAN & KAY CLAIMS

INTERPRETED BY: G.E.W.
DRAWN BY:
CHECKED BY:
DATE: OCT. 23, 1974
FIG. No.: 5

To Accompany Geochanical Report on
THE VAN & KAY CLAIM GROUP
Date: *10/23/74*
By GLEN E. WHITE & S. *[Signature]*



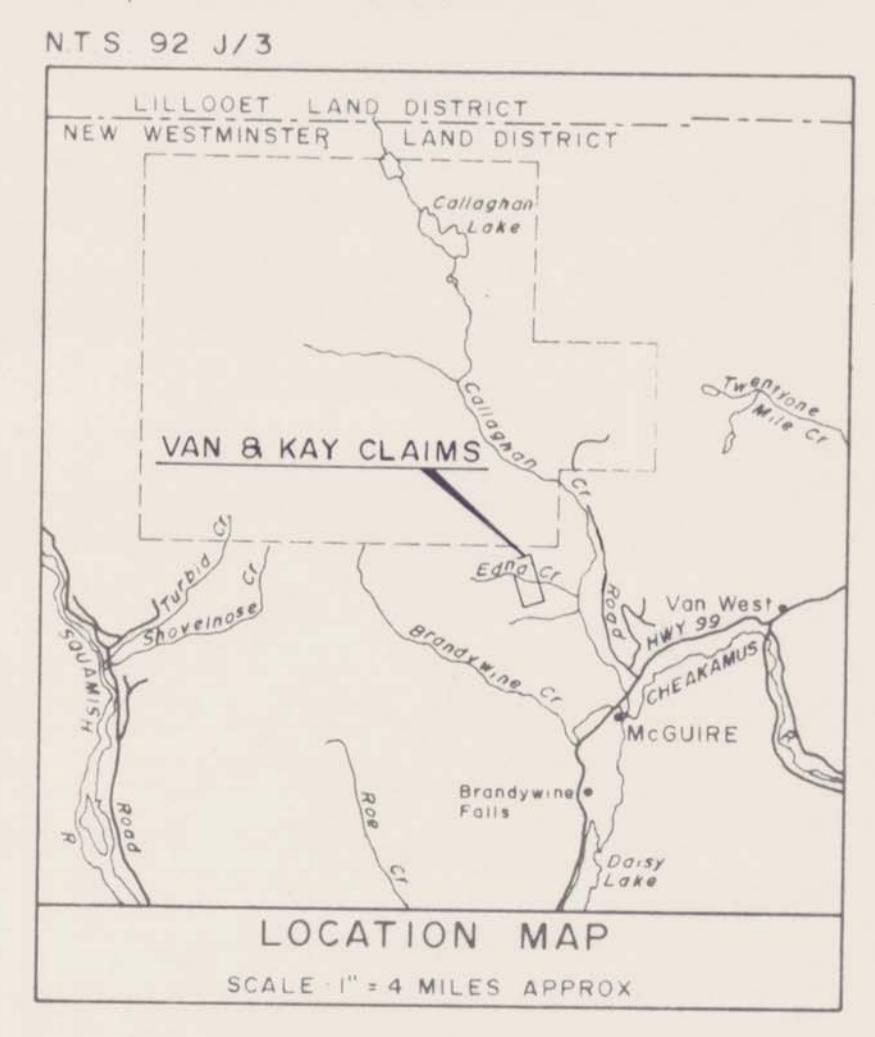
LEGEND

- Contour Line Contour Interval 15,30,60 P.P.B.
- Stations
- - - Outline of Claims
- Claim Posts
- == Unpaved Roads



Department of
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ASSESSMENT REPORT
NO. 5593 MAP 6

**5593
MAP 6**



CONSOLIDATED STANDARD MINES LTD.
YUKON GOLD PLACER LTD.
VAN SILVER EXPLORATIONS LTD.
VANCOUVER MINING DIVISION - BRITISH COLUMBIA

GEOCHEMICAL MAP
— GOLD P.P.B. —
VAN & KAY CLAIMS

To Accompany Geochemical Report on
THE VAN & KAY CLAIM GROUP
Date: December 1974
By: GLEN F. WHITE & Associates Ltd.

INTERPRETED BY: G.E.W.
DRAWN BY:
CHECKED BY:
DATE: OCT. 23, 1974
FIG. NO. 6