

754

Geochemical Report

92 P/9W

Friendly Lake No. 2 Claim Group

Location: North side of Friendly Lake,
approximately 14 miles NE of
Bridge Lake, B.C. 51°120' N.

analysis by: Bruce W. Brown, Geochemist

Report by: Peter E. Hirst, P. Engr.

Claim Owner: Anaconda American Brass Ltd.

work for: Anaconda American Brass Ltd.

Dates of work: September 26, 1965-October 14, 1967

GEOCHEMICAL REPORT

FRIENDLY LAKE No. 2 CLAIM GROUP

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MAPS

#1 Plate 1	Location Map	Following Appendix 'B'
#2 Plate 4B	Molybdenum Geochemistry	In Pocket
#3 Plate 4C	Copper Geochemistry	"
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APPENDIX 'A'

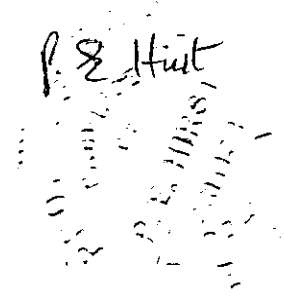
Statement of Costs of the Geochemical Survey

Line Cutting:		
Labour	26 man days for two men	\$ 303.42
Maintenance		130.00
Soil Sampling:		
Labour	9 man days for one man	105.03
Maintenance		45.00
Soil Sampling Supplies:		12.00
Sample Analysis:	199 samples @ 1.86 each	370.14
Transportation (land rover rental)		175.00
Drafting:		60.00
Supervision:		100.00
		<hr/>
	TOTAL	\$1,300.59

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 *Cite*)
of *Victoria* , in the)
Province of British Columbia, this)
21 *March* *1966* , A.D.)

Stacy Jeanette
Subjuring Recorder



APPENDIX 'B'

Evidence of Expenditure Incurred


Wages:

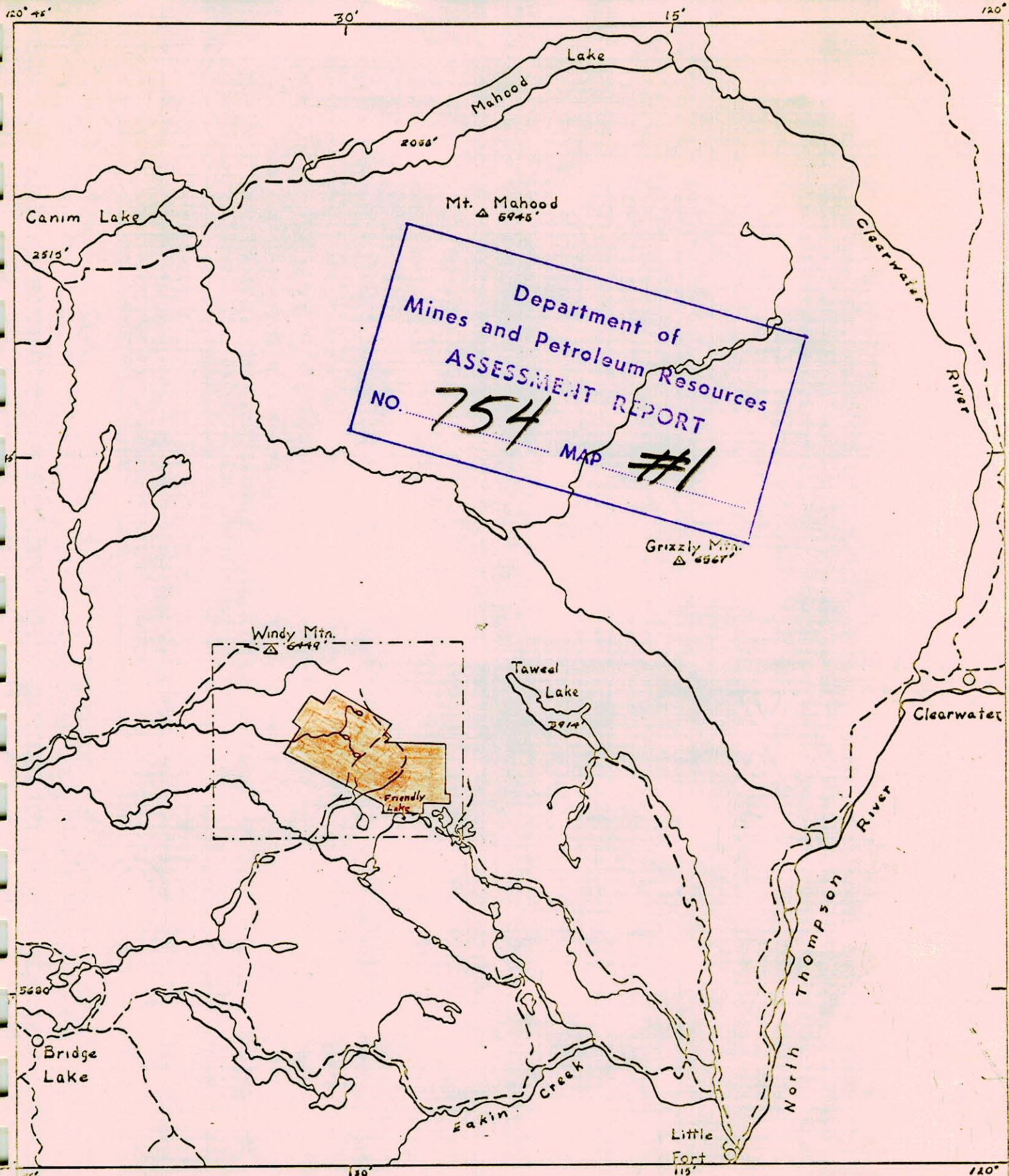
<u>Name</u>	<u>Category</u>	<u>Rate</u>	<u>Days worked</u>	<u>Period</u>	<u>Wage</u>
Hugh Campbell	Sampler	\$350.00/mo.	22	Sept. 26-Oct. 14, 1965	\$256.74
Norm Campbell	"	"	13	" 11- " " "	\$251.71

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 *Cite*)
of *Vancouver* , in the)
Province of British Columbia, this)
day of *21 March, 1966* , A.D.)

Shelby Jewett
Subjuring Recorder

P. S. Hunt




- Roads
- Claim Block
- - - Friendly Lake Map Area

Scale: 1 inch = 4 miles

LOCATION & ACCESSIBILITY FRIENDLY LAKE AREA

Geochemical Report

The Friendly Lake No. 2 Claim Group

Introduction

Anaconda American Brass Ltd. staked some 178 claims in the Friendly Lake area of British Columbia during 1965. This block of claims has been divided into 5 groups for the purpose of recording assessment work. The Friendly Lake No. 2 Claim Group consists of the following 35 unsurveyed claims: SO 5-16, SO 30, SO 32, SO 34, SO 36, SO 38, SO 40, SO 42, SO 44, SO 46, SO 48, SO 50, SO 52, RO 16, RO 29, RO 31, RO 33, RO 35, RO 37, RO 44, RO 46-49.

During the period September 26 - October 14, 1965 a geochemical survey was made over a portion of the Friendly Lake No. 2 Claim Group. The survey covered portions of the following claims: SO 5-14. Two men spent a total of 35 man days in linecutting and soil sampling. The field work was under the general supervision of Peter E. Hirst. Laboratory analysis was made under the direction of Bruce W. Brown.

Location and Accessibility

The Friendly Lake No. 2 Claim Group is a part of a larger block of 178 claims which are located on the north side of Friendly Lake in the Kamloops Mining Division, B.C. (See Plate 1). Friendly Lake is approximately 14 miles northeast of the small settlement of Bridge Lake.

A dirt road which leaves the Bridge Lake--Little Fort road approximately 7 miles east of Bridge Lake provides access to the claim area. From the Bridge Lake--Little Fort road to the claim area is approximately 10 miles.

Geology

The claim area is underlain principally by a series of sedimentary and volcanic rocks of Jurassic (?) Age. Tuffs and flows of andesitic composition are common. Argillite, graywacke, conglomerate and quartzite are locally abundant.

Intrusive rocks in the claim area consist of a number of irregular bodies of syenite. Three fairly large bodies were noted.

At a number of places tuff and andesite contain small amounts of chalcopryrite and galena along fracture planes and disseminated in the rock. Variable amounts of bornite, chalcopryrite, and chalcocite occur in several places in brecciated volcanic rocks.

Purpose of the Geochemical Survey

Approximately 90% of the ground in the claim area is covered by glacial drift. The mineralization noted in several areas indicates that a possibility exists that better concentrations of metals might be concealed beneath the prevalent cover. The geochemical survey was conducted to prospect the covered ground for anomalous concentrations of metals in the soil which might be indicative of concealed mineralization worthy of further investigation.

Details of the Survey

Chain and compass control lines were cut throughout the area to be sampled. Samples were taken every 100 feet along lines spaced from 200 to 600 feet apart.

Samples were generally collected at depths ranging from 4-6 inches. The friable, somewhat oxidized, B horizon was sampled. All samples were sent to the geochemical laboratory at Britannia Beach for analysis.

Method of Geochemical Analysis

Soil samples were first dried and then screened to minus 100 mesh. A one gram sample was then given a hot acid digestion from which standard acid solutions were prepared.

Separate aliquots of sample solution were analysed for copper, lead, zinc, and molybdenum. The colometric method was used whereby coloured organic complexes are formed that are indicative of the relative metal content. The metal content of the coloured organic complexes was determined by using a spectrophotometer to obtain the light transmittancy and comparing the values with a standard graph to obtain the respective parts per million.

Lead was determined by dissolving dithizone in chloroform. Zinc was determined by using dithizone in carbon tetrachloride. Copper was determined by reaction with biquinoline in iso amyl alcohol. Molybdenum was determined by reaction between molybdenum thiocyanate and stannous chloride in acid medium with the molybdenum thiocyanate complex extracted by iso amyl alcohol.

Results of the Geochemical Survey

Four maps on a scale of 400 feet to the inch are enclosed with this report. They show the values obtained in parts per million for copper, lead, zinc, and molybdenum.

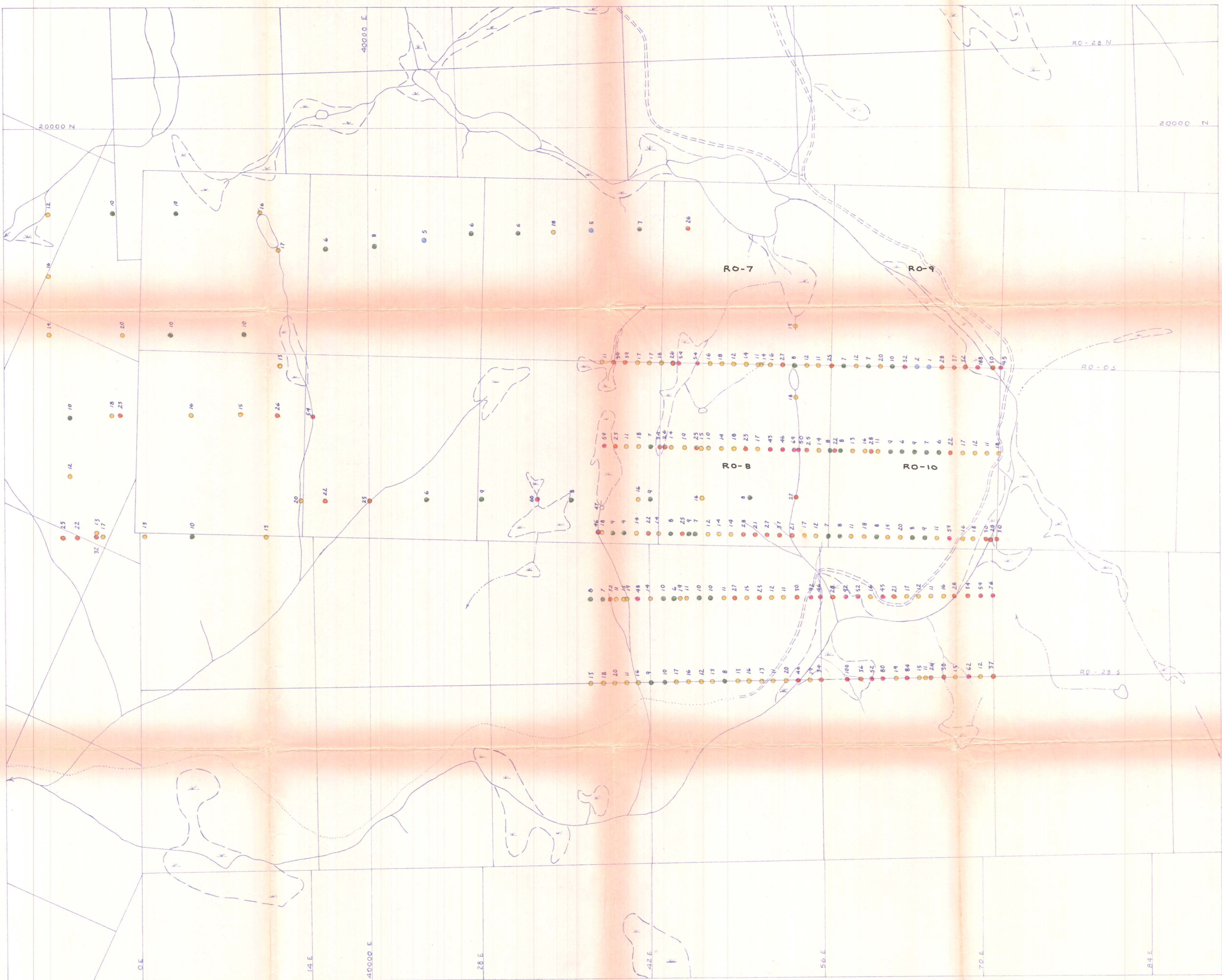
The geochemical survey indicated that irregular patterns of anomalous amounts of copper, lead, and molybdenum occur in the area surveyed. Appreciable amounts of zinc appear absent. Because of the prevalent glacial cover more work will be required before the significance of the results obtained from the geochemical survey can be evaluated.

Respectfully submitted,

Peter E. Hirst

Peter E. Hirst, P. Engr.

March 21, 1966



GEOCHEMICAL MAP
SOIL SAMPLES
MOLYBDENUM

ANACONDA AMERICAN BRASS LTD. WESTERN EXPLORATION DIVISION
FRIENDLY LAKE AREA 754
 KAMLOOPS MINING DIVISION, B.C.
 SCALE: 1"=400'

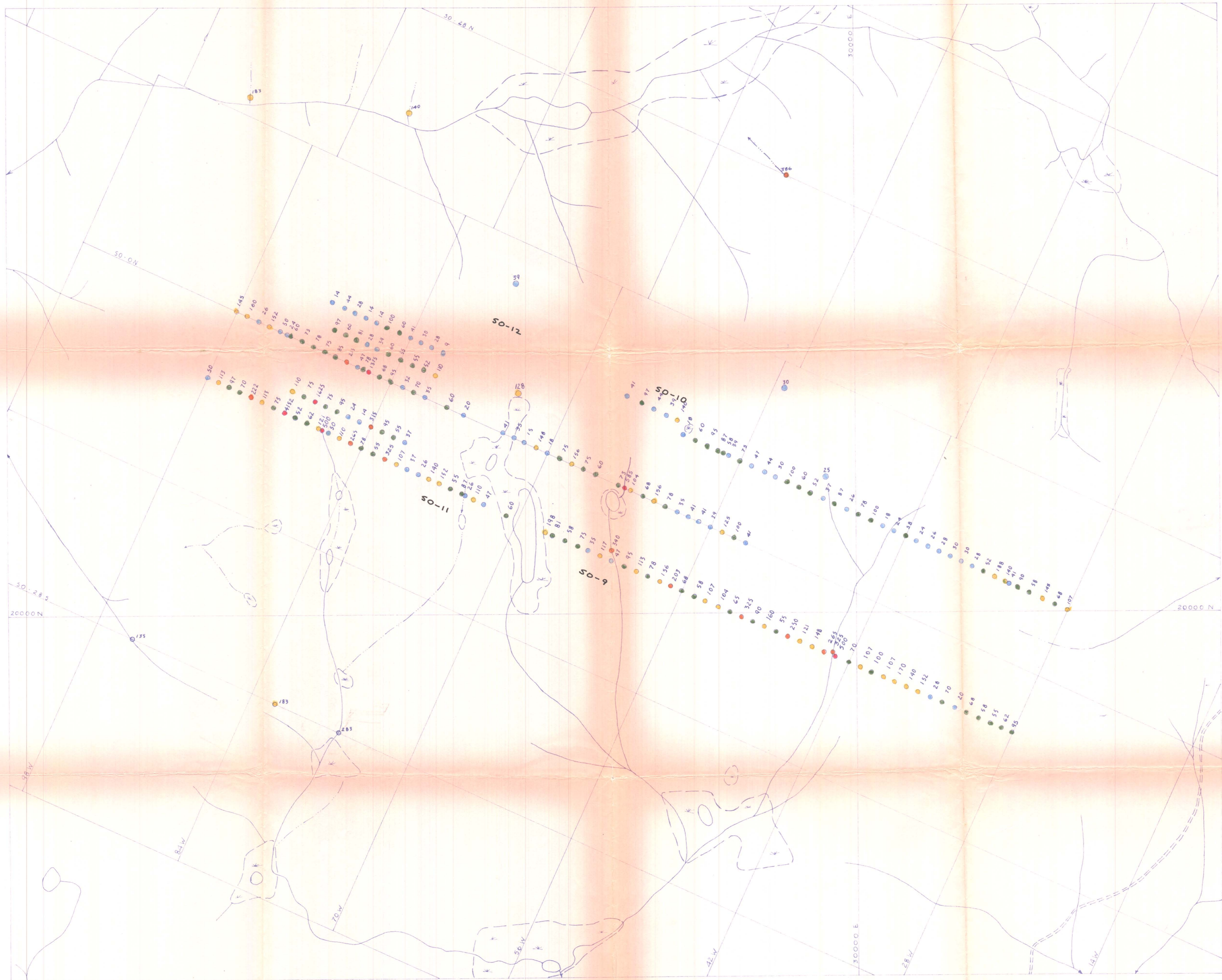
Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **754** MAP **#2**

RO GROUP

- 0-5
- 6-10
- 11-20
- 21-40
- >40
- SOIL SAMPLES
- ORGANIC IN BOGS
- SEDIMENT AT DRAINAGES
- VALUES IN PPM

PLATE 4B

TO ACCOMPANY GEOCHEMICAL REPORT BY PETER E. HIRST P. ENG. ON THE FRIENDLY LAKE NO. 4 CLAIM GROUP, FRIENDLY LAKE AREA, KAMLOOPS M.D., DATED MARCH 21, 1966.



GEOCHEMICAL MAP
SOIL SAMPLES
COPPER

P. S. Hirst

ANACONDA AMERICAN BRASS LTD, WESTERN EXPLORATION DIVISION
FRIENDLY LAKE AREA 753
 KAMLOOPS MINING DIVISION, B. C.
 SCALE: 1"=400'

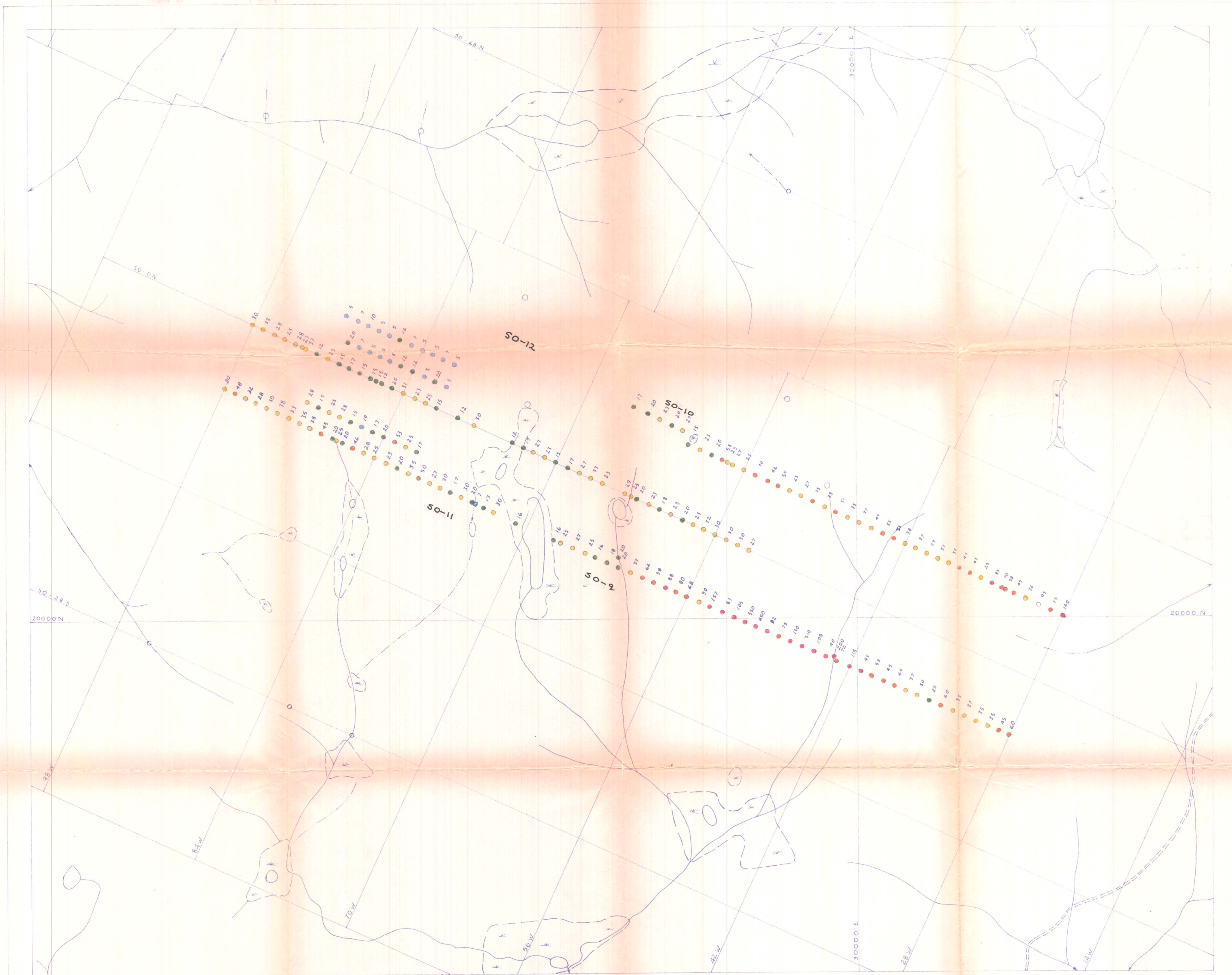
Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **753** MAP **#3**

SO GROUP

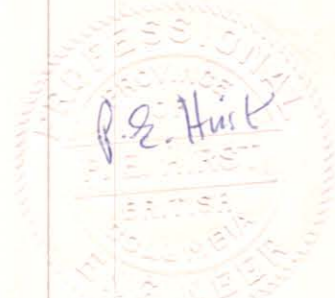
- 0 - 50
- 51 - 100
- 101 - 200
- 201 - 400
- >400
- SOIL SAMPLES
- ORGANIC IN BOGS
- SEDIMENT AT DRAINAGES
- VALUES IN PPM

PLATE 3C

TO ACCOMPANY GEOCHEMICAL REPORT BY PETER E. HIRST RENA ON THE FRIENDLY LAKE No.2 CLAIM GROUP, FRIENDLY LAKE AREA, KAMLOOPS M.D., DATED MARCH 21, 1966.



GEOCHEMICAL MAP
SOIL SAMPLES
LEAD



ANACONDA AMERICAN BRASS LTD, WESTERN EXPLORATION DIVISION
FRIENDLY LAKE AREA 753
 KAMLOOPS MINING DIVISION, B.C.
 SCALE: 1" = 400'

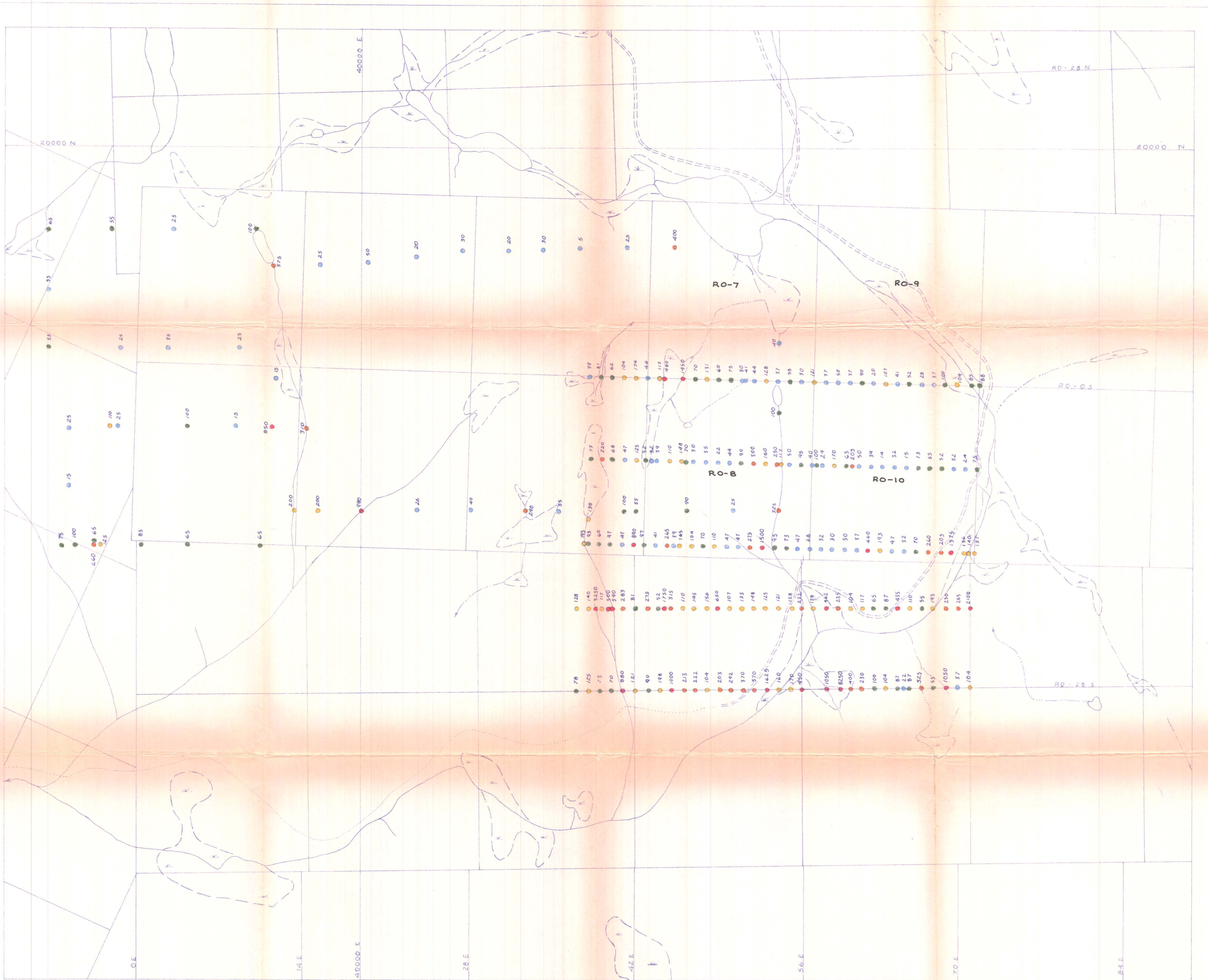
Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **753** MAP **#4**

SO GROUP

- 0-10
 - 11-20
 - 21-40
 - 41-80
 - > 80
- SOIL SAMPLES
 ○ ORGANIC IN BOGS
 ○ SEDIMENT AT DRAINAGES
 VALUES IN PPM

PLATE 3D

TO ACCOMPANY GEOCHEMICAL REPORT BY PETER E. HIRST P. ENG ON
 THE FRIENDLY LAKE No. 2 CLAIM GROUP, FRIENDLY LAKE AREA, KAMLOOPS M.D.,
 DATED MARCH 21, 1966.



GEOCHEMICAL MAP
SOIL SAMPLES
COPPER

ANACONDA AMERICAN BRASS LTD. WESTERN EXPLORATION DIVISION
FRIENDLY LAKE AREA 754
 KAMLOOPS MINING DIVISION, B.C.
 SCALE: 1"=400'

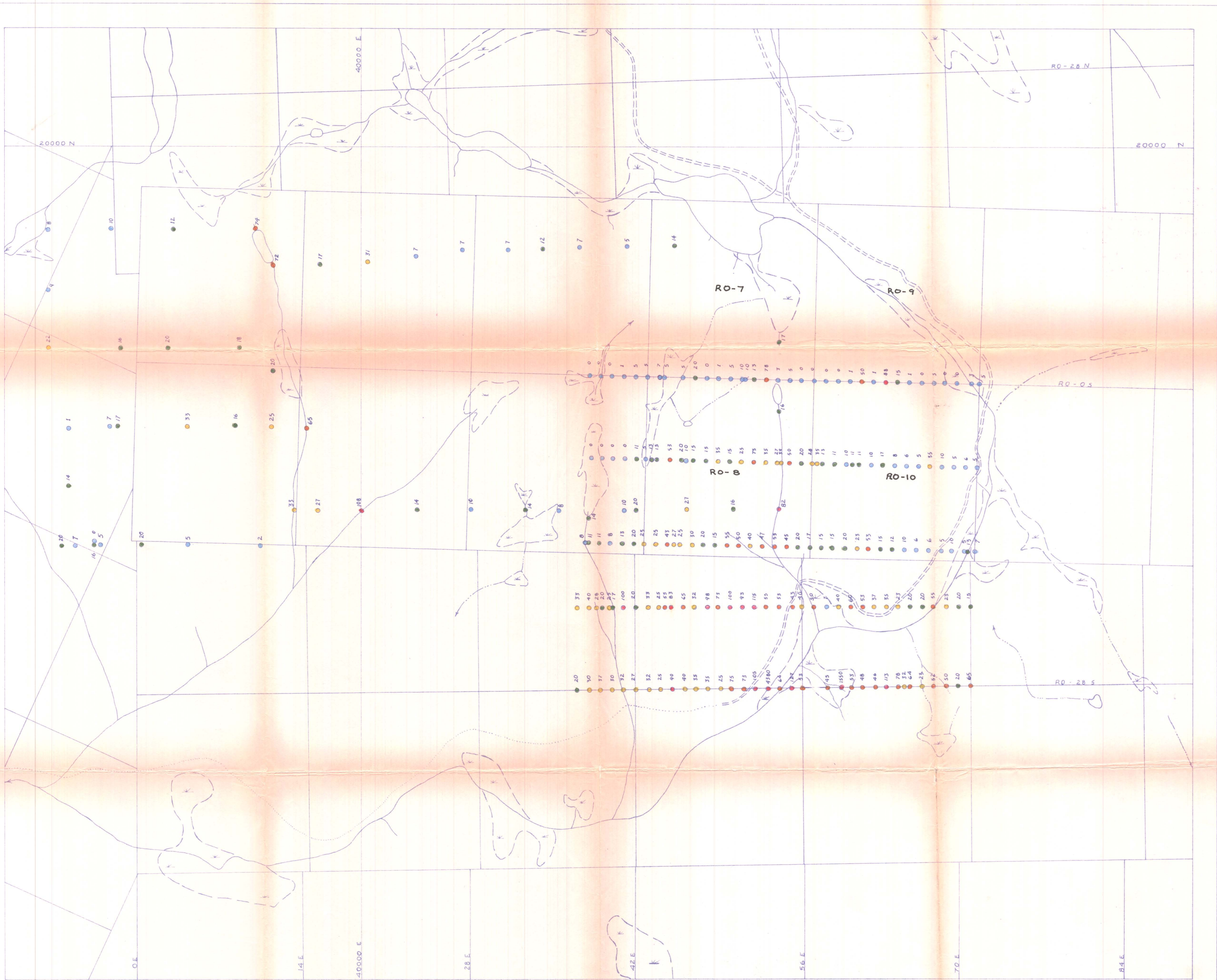
Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **754** MAP **#3**

RO GROUP

- 0 - 50
- 51 - 100
- 101 - 200
- 201 - 400
- >400
- SOIL SAMPLES
- ORGANIC IN BOGS
- SEDIMENT AT DRAINAGES
- VALUES IN PPM

PLATE 4C

TO ACCOMPANY GEOCHEMICAL REPORT, BY PETER E. HIRST P.E., ON THE FRIENDLY LAKE NO. 4 CLAIM GROUP, FRIENDLY LAKE AREA, KAMLOOPS MINING DIV., DATED MARCH 21, 1966.



GEOCHEMICAL MAP
SOIL SAMPLES
LEAD

ANACONDA AMERICAN BRASS LTD. WESTERN EXPLORATION DIVISION
FRIENDLY LAKE AREA 754
 KAMLOOPS MINING DIVISION, B.C.
 SCALE: 1"=400'

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **754** MAP **#4**

RO GROUP

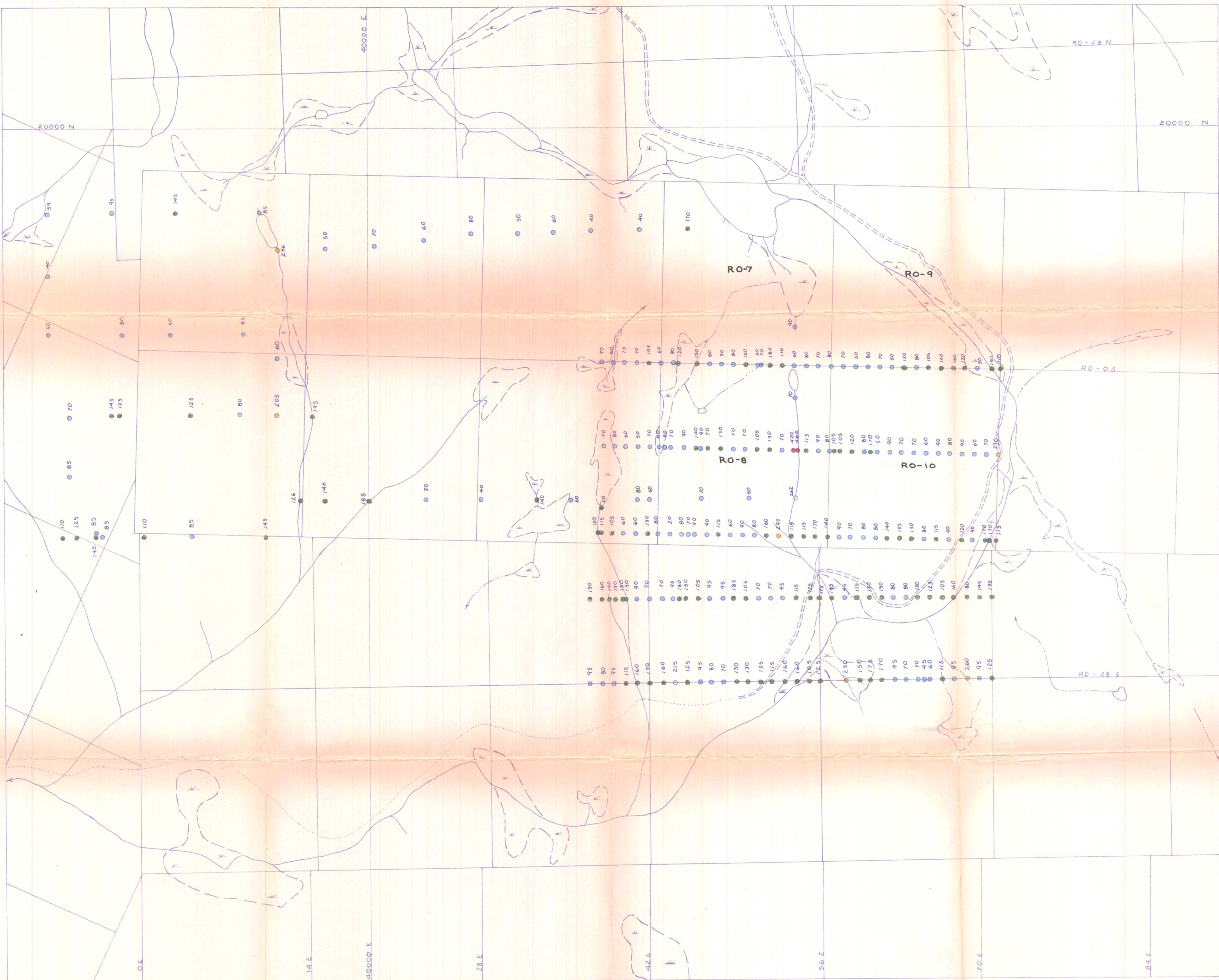
- 0-10
- 11-20
- 21-40
- 41-80
- > 80
- SOIL SAMPLES
- ORGANIC IN BOGS
- SEDIMENT AT DRAINAGES
- VALUES IN PPM

PLATE 4D

TO ACCOMPANY GEOCHEMICAL REPORT BY PETER E. HIRST P.ENG. ON THE FRIENDLY LAKE No. 4 CLAIM GROUP, FRIENDLY LAKE AREA, KAMLOOPS RD., DATED MARCH 21, 1966.

P.S. Hunt

(M5)



GEOCHEMICAL MAP
SOIL SAMPLES
ZINC

ANACONDA AMERICAN BRASS LTD. WESTERN EXPLORATION DIVISION
FRIENDLY LAKE AREA 754
 KAMLOOPS MINING DIVISION, B.C.
 SCALE: 1"=400'

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **754** MAP **#5**

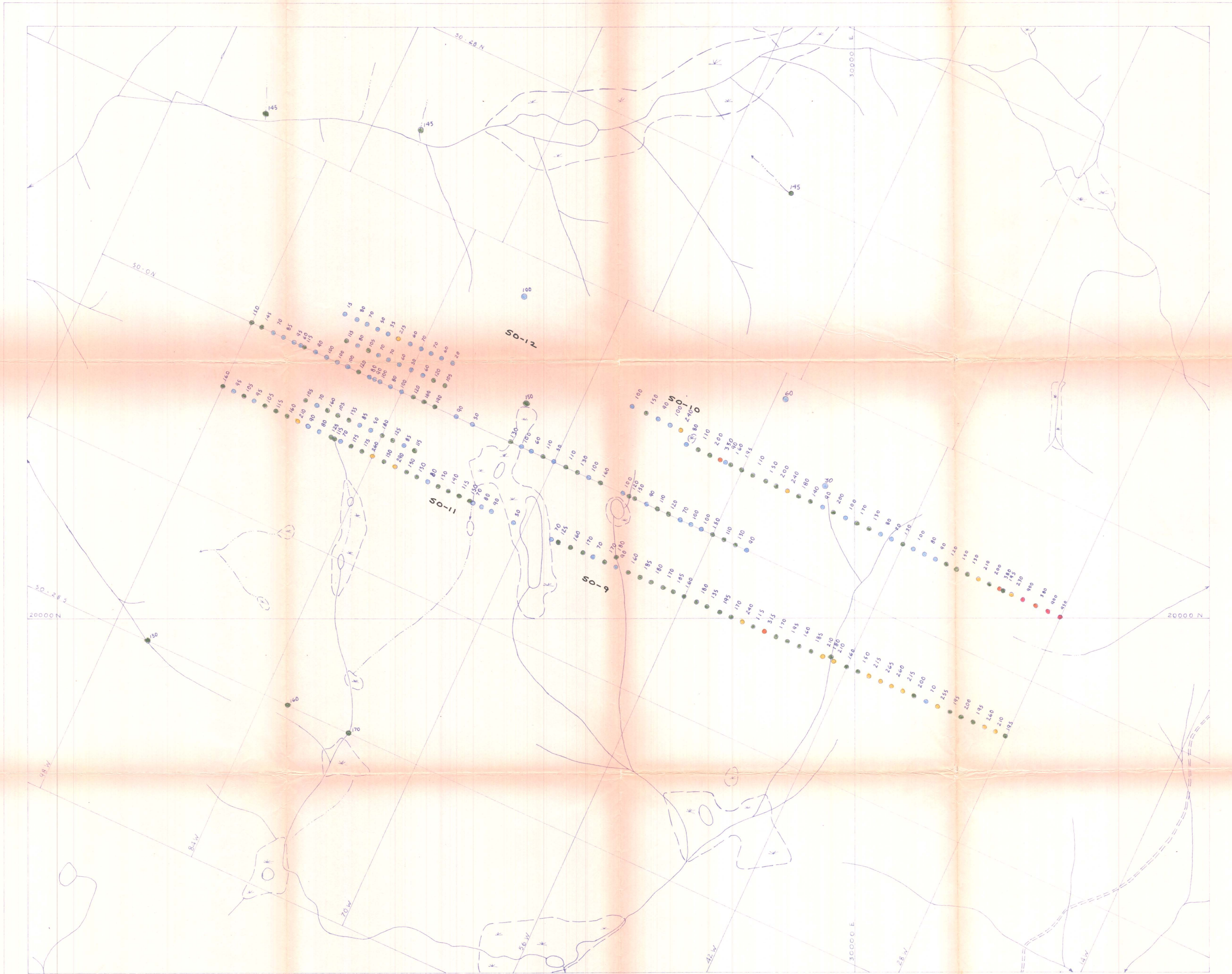
RO GROUP

- 0-100
- 101-200
- 201-300
- 301-400
- >400
- SOIL SAMPLES
- ORGANIC IN BOGS
- SEDIMENT AT DRAINAGES
- VALUES IN PPM

PLATE 4E

TO ACCOMPANY GEOCHEMICAL REPORT BY PETER E. HIRST P.ENG. ON THE FRIENDLY LAKE NO. 4 CLAIM GROUP, FRIENDLY LAKE AREA, KAMLOOPS MINING DIVISION, DATED MARCH 21, 1966.

754



GEOCHEMICAL MAP
SOIL SAMPLES
ZINC

ANACONDA AMERICAN BRASS LTD, WESTERN EXPLORATION DIVISION
FRIENDLY LAKE AREA 753
 KAMLOOPS MINING DIVISION, B. C.
 SCALE : 1" = 400'

Department of
 Mines and Petroleum Resources;
 ASSESSMENT REPORT
 NO. **753** MAP **#5**

SO GROUP

- 0-100
- 101-200
- 201-300
- 301-400
- >400
- SOIL SAMPLES
- ORGANIC IN BOGS
- SEDIMENT AT DRAINAGES
- VALUES IN PPM

PLATE 3E

TO ACCOMPANY GEOCHEMICAL REPORT BY PETER E. NIEST A.E.G. ON THE FRIENDLY LAKE NO. 2 CLAIM GROUP, FRIENDLY LAKE AREA, KAMLOOPS M.D., DATED MARCH 21, 1966.

