

6196

GEOCHEMICAL REPORT

ON

R.R.S.P. #1

REVELSTOKE MINING DIVISION

51° 36' N, 118° 25' W 82 M9.

for

SPROATT SILVER MINES LTD.

by

J.W. MacLeod, P. Eng.

VANCOUVER, B.C.

February 21, 1977

MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

NO.

6196

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APPENDIX I	Analysis procedure & assay results.
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ILLUSTRATIONS

SCALE

LOCATION MAP 1" = 64 km

PLAN OF R.R.S.P. #1 1 : 50,000

MAP 1 ZINC IN SILTS & SOILS 1 : 5,000

MAP 2 COPPER IN SILTS & SOILS 1 : 5,000

INTRODUCTION

The R.R.S.P. #1 claim was located as a "tie-on" to ground being developed by Noranda Mines, a new copper-zinc discovery of significance.

The following report covers the work carried out as recommended by Dr. R.H. Seraphin and has been prepared to fulfill the requirements of the Mineral Act governing the filing of geochemical work for assessment credit.

SUMMARY & CONCLUSIONS

Between July 4 and 14, R. Peel and R. Menzies collected 105 silt and soil samples in a preliminary exploration test of claim R.R.S.P. #1.

The results of this test were negative but indications are that a small portion of the northern part of the claim is underlain by favourable host rocks and this area should be examined in more detail.

PROPERTY

Mineral claim R.R.S.P.#1 was recorded on March 4, 1976 by Larry Sostad to consist of 20 units. Subsequent location of posts suggest that at least 6 units overstate PAT claims in good standing and of prior location.

LOCATION & ACCESS

The claim adjoins to the south of Noranda's Goldstream property located 70 kilometers north of Revelstoke.

The north part of the claim is accessible by 14 kilometers of good logging road east from paved highway 23.



MERY ENGINEERING CORP.

LOCATION OF
R.R.S.P. 1

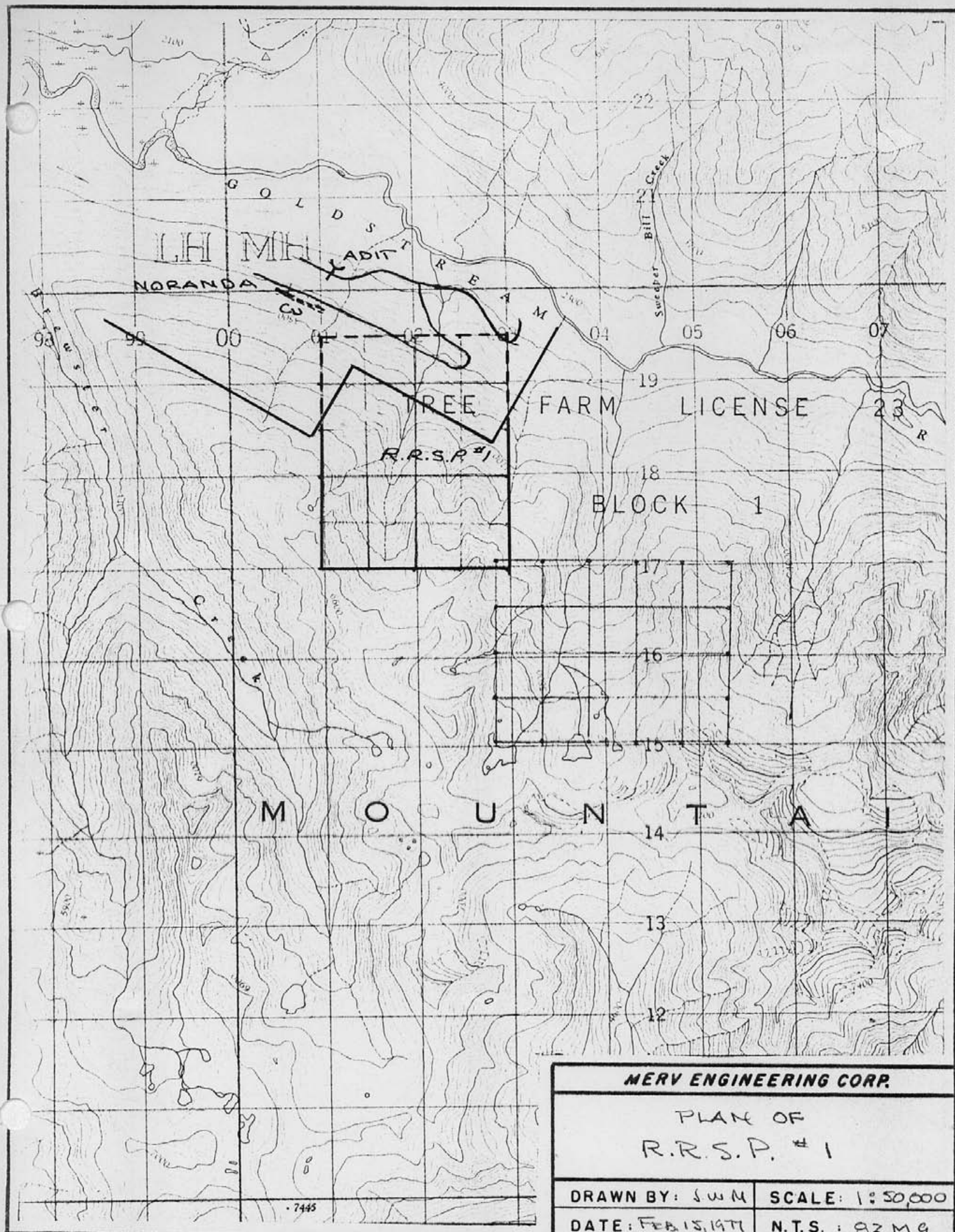
DRAWN BY: J.W.M.

SCALE: 1" = 38 mi.

DATE: FEB 15, 1977

N.T.S.: 82 M9

TO ACCOMPANY REPORT ON RRSP #1 By J.W.M. and P.D.G.



TO ACCOMPANY REPORT ON RRSP#1 BY JWM and P. F. W.

GENERAL

The claim is located on the steep northerly sloping side of the Goldstream River valley between elevations 900 and 1800 meters.

The area resembles the rain forest of the coast with good stands of cedar. Precipitation is heavy and a general hinderance to mineral exploration.

Overburden is general up to tree line at 1800 meters.

No mineral occurrences are known on the claim but the grade of mineralization located one kilometer to the north on the adjoining Noranda ground is an inviting geochemical target.

GEOLOGY

The general geology of this area is available in G.S.C. Summary Report for 1928, and G.S.C. Map 12-1964 at a scale of 1" - 4 miles. Detail of rock units is found in the B.C. Minister of Mines Geological Field work report for 1976 which contains an article by Trygue Hoy.

Although outcrop is very sparce the R.R.S.P. 2 claim appears to be practically all underlain by granitic rock with small inclusion of metamorphosed sediments.

GEOCHEMICAL SURVEY

Between July 4 and July 14, R. Peel and R. Menzies, both experienced graduate geologists carried out the preliminary geochemical test of the claim.

An orientation line was run over the Noranda showing and the results of samples taken at 25 meter intervals are shown on the accompanying analytical report for samples R1 to 12. The well defined anomaly is terminated to low order values immediately above the showing at sample R9.

A total of 105 silt and soil samples were collected to explore the overburdened area of the R.R.S.P. #1 claim for the presence of copper and zinc mineralization.

The values obtained are persistantly of low order, and do not indicate the presence of economic copper-zinc mineralization.

RECOMMENDATIONS

Although the results of work to date on this property have not indicated mineralization of interest, the frequency of sampling is not sufficient to eliminate the possibilities, especially in the northern 300 meters of the property where the favourable green schist facies may be found.

Detailed soil sampling should be carried out in this northern portion of the property.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read 'J.W. MacLeod', written in a cursive style.

J.W. MacLeod, P. Eng.

Vancouver, B.C.
February 21, 1977

APPENDIX I



VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-988-2172

February 22, 1977

TO: Sproatt Silver Mines Ltd.,
333 - 885 Dunsmuir Street,
Vancouver, B. C. V6C 1N5

FROM: Vangeochem Lab Ltd.,
1521 Pemberton Avenue,
North Vancouver, B. C. V7P 2S3

SUBJECT: Analytical procedure used to determine hot acid soluble Cu
and Zn in geochemical silt and soil samples.

Re: Geochemical Analytical Report # 76-83-001, July 16, 1976

1. Sample Preparation

- (a) Geochemical soil or silt samples were received in the laboratory in wet-strength 3½ x 6½ Kraft paper bags.
- (b) The wet samples were dried in a ventilated oven.
- (c) The dried soil and silt samples were sifted by using a shaking machine with 80-mesh stainless steel sieves. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.

2. Methods of Digestion

- (a) 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.
- (b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively).


.....2

- (c) The digested samples were diluted with demineralized water to a fixed volume and shaken.

3. Method of Analysis

Cu and Zn analyses were determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 or Model AA5 with their respective hollow cathode lamps. The digested samples were aspirated directly into an air and acetylene flame. The results, in parts per million, were calculated by comparing a set of standards to calibrate the atomic absorption unit.

4. The analyses were supervised or determined by Mr. Conway Chun and the laboratory staff.



Eddie Tang
VANGEOCHEM LAB LTD.

ET:mb



VANGEOCHEM LAB LTD.
1521 PEMBERTON AVE.,
NORTH VANCOUVER, B.C.,
CANADA V7P 2S3

TELEPHONE: 988-2172
AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Sproatt Silver Mines Ltd.,
333 - 885 Dunsmuir Street,
Vancouver, B. C. V6C 1N5

Attention:

Report No: 76 83 001 Page 1 of 3
Samples Arrived: July 14, 1976
Report Completed: July 16, 1976
For Project:
Analyst: E.T., D.A., L.S.
Invoice # 3798 Job # 76-089

Sample Marking	Cu ppm	Zn ppm				
BCR 1 - 12	32	67 ✓				
BCR 1.5 - 14	30	69 ✓				
BCR 2 - 14	28	53 ✓				
CR - 1	17	56 ✓				
CR 1 - 10	30	74 ✓				
11	37	73 ✓				
12	37	65 ✓				
13	40	75 ✓				
CR 1 - 14	35	77 ✓				
CR 2 - 0	20	75 ✓				
CR 3 - 0	18	54 ✓				
P - 45	17	44 ✓				
46	22	55 ✓				
47	19	54 ✓				
48	18	45 ✓				
49	23	52 ✓				
50	20	44 ✓				
51	18	39 ✓				
52	25	42 ✓				
P - 55	16	40 ✓				
R - 1	86	175				
2	165	230				
3	630	610				
4	116	233				
5	680	510				
6	700	700				
7	330	320				
8	103	264				
9	20	46				
9 a.	20	58				
10	17	44				
10 a.	19	45				
11	24	52				
R - 12	19	50				
SP - 1	34	86 ✓				
2	22	46 ✓				
3	24	64 ✓				
4	24	66 ✓				
SP - 5	14	40 ✓				

MASTER PRINTING LTD.

REMARKS:

Signed:

% Mo x 1.6683 = % MoS₂

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.
1521 PEMBERTON AVE.,
NORTH VANCOUVER, B.C.,
CANADA V7P 2S3

TELEPHONE: 988-2172
AREA CODE: 604

Certificate of Geochemical Analyses

• Specialising in Trace Elements Analyses •

-IN ACCOUNT WITH-

Sproatt Silver Mines Ltd.

Attention:

Report No: 76 83 001 Page 2 of 3
Samples Arrived:
Report Completed:
For Project:
Analyst:

Sample Marking	Cu ppm	Zn ppm				
SP - 6	21	51				
7	22	58				
8	28	64				
9	25	68				
10	24	65				
11	23	74				
12	21	70				
13	22	65				
14	19	64				
SP - 15	18	74				
SPE 2 - 15	54	170				
SPE 2.5 - 15	33	109				
SPE 3 - 12	22	50				
13	6	20				
14	15	55				
SPE 3 - 15	9	29				
SPE 4 - 2	25	130				
3	16	24				
4	10	37				
5	18	84				
6	12	52				
7	15	51				
8	10	36				
9	11	25				
10	15	62				
11	16	45				
11.5	35	82				
SPE 4 - 12	20	46				
SPW 2 - 0	11	60				
1	12	40				
2	15	55				
3	10	27				
4	28	44				
5	20	80				
6	18	47				
7	15	57				
8	42	98				
9	5	20				
SPW 2 - 10	6	45				

MASTER PRINTING LTD

REMARKS:

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NORTH VANCOUVER, B.C.,
CANADA V7P 2S3

TELEPHONE: 988-2172
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• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Sproatt Silver Mines Ltd.

Report No: 76 83 001 Page 3 of 3

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	Cu ppm	Zn ppm				
SPW 2 - 11	15	50				
12	23	30				
13	15	28				
14	23	51				
SPW 2 - 15	21	54				
SS - 8	11	63				
9	34	53				
10	9	40				
11	29	65				
12	15	32				
SS - 13	27	54				
TR - 4.5	27	70				
5.5	48	68				
TR - 6.5	25	54				
TRE 0.5 - 15	36	58				
TRE 1 - 15	12	67				
TRE 2 - 6.5	23	56				
TRW - 7	24	99				
8	25	60				
TRW - 11	22	54				
TRW - 14	25	45				
TRW 0.6 - 15	13	48				
TRW 1.4 - 15	18	43				
TRW 2 - 0.2	32	92				
8.5	30	64				
11.7	25	35				
TRW 2 - 12.5	24	59				

MASTER PRINTING LTD.

REMARKS:

Signed: 

% Mo x 1.6683 = % MoS₂

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

APPENDIX II

STATEMENT OF EXPENDITURE

MERV ENGINEERING INVOICE #214	\$ 1,315.53
MERV ENGINEERING INVOICE #219	189.98
BOW RIVER INVOICE #123	100.00
VAN GEOCHEM LAB INVOICE #3798	220.50
DRAFTING & PRINTING	55.19
REPORT PREPARATION	<u>400.00</u>
	\$ 2,281.20

MERV ENGINEERING CORP.
335 - 885 DUNSMUIR ST.
VANCOUVER, B.C. V6C 1N5

PHONE: 604 689-8325

August 6, 1976.

Invoice # 214

Sproatt Silver Mines Ltd.,
333-885 Dunsmuir St.,
Vancouver, B. C.

Per: RRP 1
Revelstoke, B.C.

To the disbursements of the wages of Mr. Peel and Mr. Menzies.

Mr. Peel - 9 days @ \$50.00 per day.....	\$ 450.00	
Mr. Menzies 9 days @ \$40.00 per day.....	<u>360.00</u>	
		\$ 810.00
Plus 25% overhead.....		<u>202.50</u>
		\$ 1,012.50
1/4 share of rental S.P. Unit 8 days @ \$10.00..	\$80.00....	20.00
1/4 share of Mr. Peels Expense Account of \$ 332.09.....		83.02
1/4 share of Co.Op. Groceries....	\$208.03.....	52.01
Professional Services of J. W. MacLeod...		
One day @ \$150.00		<u>150.00</u>
Total		<u><u>\$ 1,315.53</u></u>

Respectfully submitted,

J. W. MacLeod, P. Eng.

Pd.
aug. 9/76
CH. #196

MERV ENGINEERING CORP.
335-885 DUNSMUIR ST.
VANCOUVER, B.C. V6C 1N5

PHONE: 604 689-8325

August 31, 1976.

Invoice # 219

In Account With:

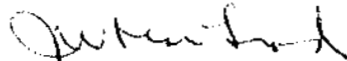
Sproatt Silver Mines Ltd.,
333-885 Dunsmuir St.,
Vancouver, B. C.

Per: RRSP Group
IDA Group

To the disbursement of the wages of Mr. Peel:

3 days	
2 days RRSP	\$ 100.00
1 day IDA.....	<u>50.00</u>
	150.00
Plus 25% overhead.....	<u>37.50</u>
	\$ 187.50
Professional Services J. W. MacLeod 2 days divided by 4.....	75.00
J. W. MacLeod expense account \$89.97 divided by 4.....	<u>22.47</u>
Total.....	<u><u>284.97</u></u>

Respectfully submitted,



J. W. MacLeod, P. Eng.

*pd -
aug 31/76
CH # 205.*



BOW RIVER RESOURCES LTD.

333-885 DUNSMUIR ST., VANCOUVER, B.C. V6C 1N5

687-7545

September 30, 1976
Invoice #123

Sproutt Silver Mines Ltd.
#333-885 Dunsmuir St.
Vancouver, B.C.

TO INVOICE YOU FOR THE FOLLOWING:

Use of vehicle in Revelstoke Area	\$100.00
-----------------------------------	----------

Northair Mines invoice re telephone calls your portion	25.11
--	-------

\$125.11

TOTAL THIS INVOICE \$125.11

*pd. DEC. 10/76
CH# 775*



VANGEOCHEM LAB LTD.

604-988-2172

1521 PEMBERTON AVE., NORTH VANCOUVER, B.C.
CANADA

IN ACCOUNT WITH:

Sproatt Silver Mines Ltd.,
333 - 885 Dunsmuir Street,
Vancouver, B. C.,
V6C 1N5

INVOICE 3798

DATE: July 16, 1976

TERMS: NET 21 DAYS

FOR REPORT 76 83 001
Job # 76-089

PROJECT:

ORDER NO.

105 soil samples for preparation	@ \$0.35	\$ 36.75
105 geochem analyses for Cu & Zn	@ \$1.75	<u>183.75</u>
	Total	<u>\$220.50</u>

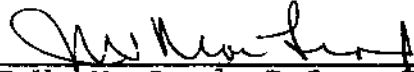
Pcl. July 27/76
CH # 191

APPENDIX III

ENGINEERS CERTIFICATE

I, James W. MacLeod, of 1220 Arbutus Street, in the City of Vancouver, in the Province of British Columbia,
DO HEREBY CERTIFY:

1. That I am a Consulting Engineer, with a business address at #333-885 Dunsmuir Street, in the City of Vancouver, in the Province of British Columbia.
2. That I am a graduate of the University of Alberta with the degree of B.Sc. in Mining Engineering.
3. That I have actively practiced my profession in Mineral exploration since graduation in 1946.
4. That I am a registered Professional Engineer in the Province of British Columbia.
5. That this report on claim R.R.S.P. #1 is based on the results of field work carried out by R. Peel and R. Menzies between July 4 and July 10, 1976 under the direction of the writer.


J.W. MacLeod, B.Sc., P. Eng.

Dated at the City of Vancouver,
Province of British Columbia,
the 21 day of February, 1977.

+ Copper Showing

ADIT

NORANDA

Phyllite Green

Phyllite Green

RRSP #1 LCP

Paragneiss

Granite

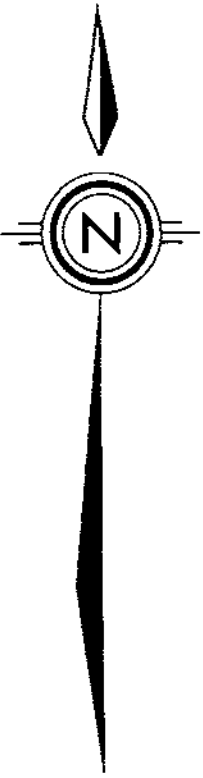
WF. Granite

Granite

Gr. Float

Gr. w. sed. Inclusions

Meta Seds - Laminated Tr. Cu.



6196
M-1

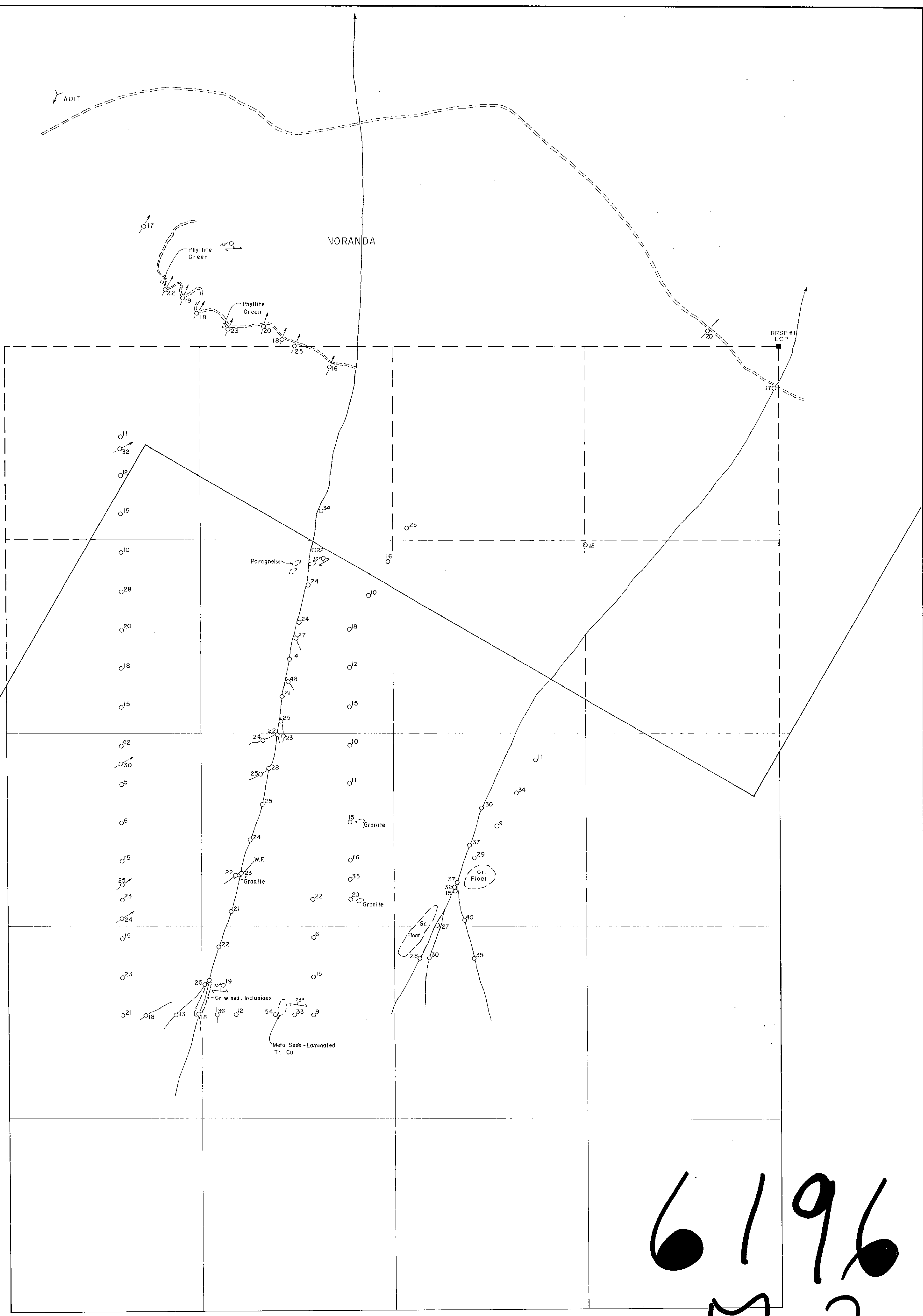
To be used only for RRSP #1 LCP by Sproatt Silver Mines Ltd.

SPROATT SILVER MINES LTD.

CLAIM RRSP #1
GOLDSTREAM RIVER AREA
ZINC IN SILTS
(PPM)

SCALE 1:5000
Metres 100 50 0 100 200 300 Metres

DRAWN: Altair N.T.S. DATE: JAN 1976 FIG.



6196
M-2

To accompany Report on RRSP#1 by J. W. L. Taylor, P. Eng.

SPROATT SILVER MINES LTD.			
CLAIM RRSP#1 GOLDSTREAM RIVER AREA COPPER IN SILTS (PPM)			
SCALE 1:5000 Metres 100 50 0 100 200 300 Metres			
DRAWN: Altair	N.T.S.	DATE: JAN 1976	FIG.