BRITISH COLUMBIA

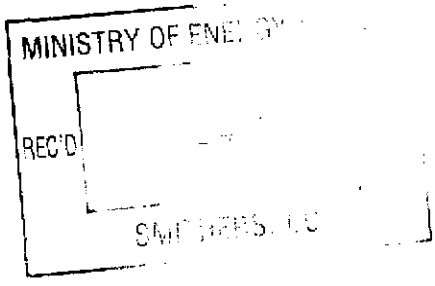
PROSPECTORS ASSISTANCE PROGRAM

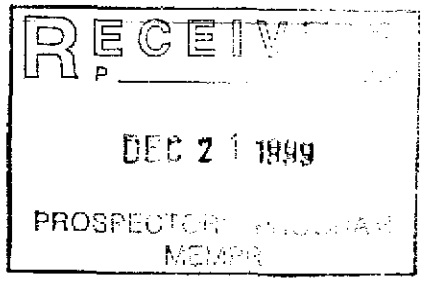
MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1999/2000
REPORT #:	PAP 99-4
NAME:	RUPERT SEEL

British Columbia
Prospectors Assistance Program





Prospectors Reports
Reference #: 99/00 P5

Submitted By: Rupert R. Seel
Date Submitted: December 20, 1999

Table of Contents

Purpose:

To prospect in the area of geological features which contains several known mineral deposits.

Introduction:

The area of interest is immediately north and east of Troitsa Peak in the Whitesail Ranges of mountains and mainly south of Tahsta Reach of the Nechako Reservoir (NTS 93E/11 & 93E/10). Access to the area is by recently built logging roads and helicopter.

The higher elevations of the range have been extensively prospected and geologically mapped, however the lower areas have much glacial drift and have few outcrops. Of particular interest is a geographically lower area between the foot of the Whitesail Range Mountains and Tahtsa Reach, which contains several known mineral occurrences and intrusive rocks.

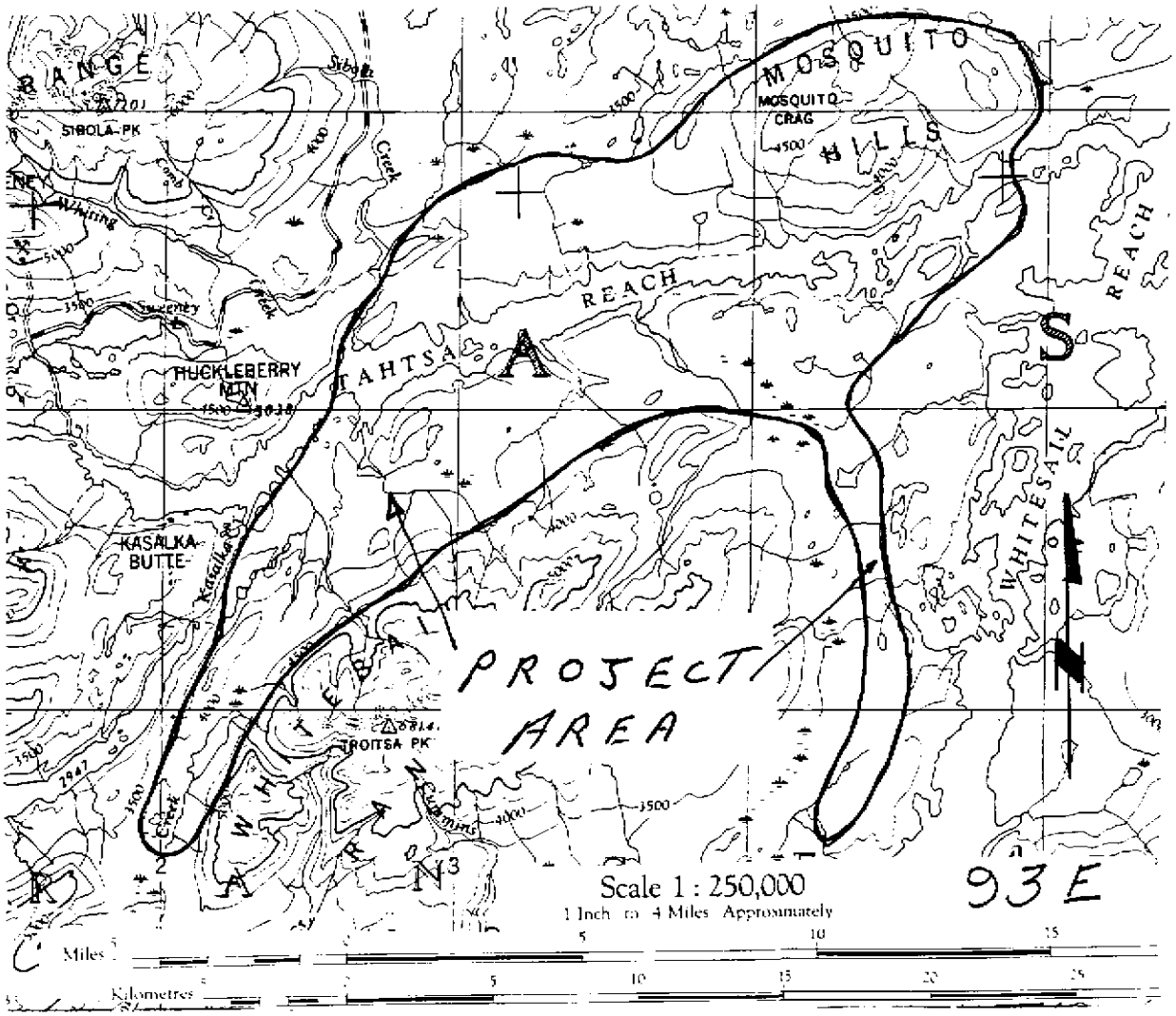


Figure 1: *Location of prospecting area*

This feature trends northeast and lays to the north of the Whitesail mountains. The writer prospected this area between previously known mineral occurrences taking soil, silt, and rock samples, mainly at four locations, Site #1 - #4.

Method:

The area was traversed by truck on new logging roads, by boat, all terrain vehicle and on foot. Soil, silt and rock samples were taken for analysis. Sample locations were flagged with survey ribbons having written sample numbers. Locations of sites were plotted on a 1:50,000 scale map (see Sample Location Map, Figure #2).

Silt samples were taken from areas where the bedrock was probably nearby or the glacial overburden was thought to be shallow. Soil samples for the "B" horizon were collected where the bedrock was close to the surface. Both silts and soil samples were collected in craft paper bags, dried at room temperature and then sent to the lab for analysis.

Rock outcrops with pyrite and/or limonite mineralization were sampled, especially rocks that seemed to be from gossans or had much limonite alteration.

All samples on map were sent to TSL Assayers for multi-element ICP analysis (see Appendix 2) using TSL Assayers standard technique of sample preparation.

Project Area:

Site #1 was selected based on a sample taken in at rock pit contained 475ppm of Arsenic. A grid was layed out in a south west direction.

Site #2 was based on high VLF-EM response reported in 10168 assessment report. This same area, with a high magnetic reading taken in 1984 by Lansdowne. Grid is based on Lansdowne grid.

Site #3 was based on a high magnetic high reading of over 1000. Grid is based on Lansdowne work of 1984.

Site #4 is an area selected for high VLF-EM response survey. 4 lines were run in a West to East direction.

Conclusion:

Site #1:

38 soil samples taken, only those taken at the north end showed any value in Au (see appendix 1). This is most likely due to the bed rock being near the surface. Bed rock in this area is sedimentary.

Site #2:

A total of 51 soil samples were taken. Grid lines run across the slope East to West. High in Au of 202ppb, Ag 1.8ppm, Zn 473ppm (see appendix 1). The only bed rock found was in the small creeks on the north edge of the site. This bed rock is volcanic and cherts with veinlets of pyrite, maybe a fault zone. There is a possibility that this anomaly could be contained to the East, as the area is covered by an old slide.

Site #3:

A total of 23 soil samples were taken (see appendix 1). This area in on the same grid as Site #2. No values are indicated this may be due to depth of overburden.

Site #4:

A total of 29 soil samples were taken (see appendix 1). These grid lines were run across the slope in a westerly direction. There were low values in Cu; 65ppm and Ag; 1.0ppm. No bed rock was found but there was sedimentary float located and prospecting higher up the ridge was volcanics, this area may be on or near a contract zone.

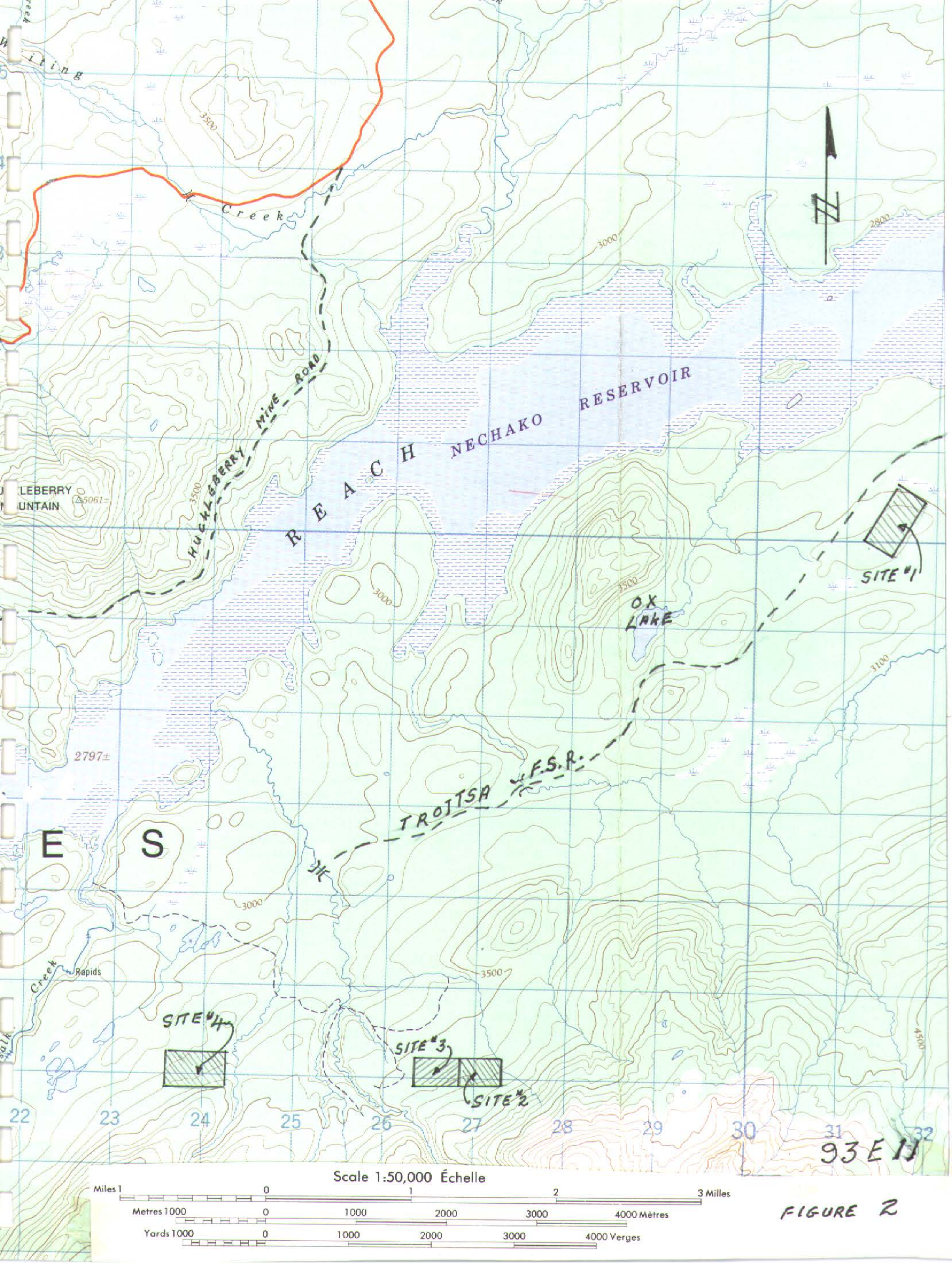
Reconnaissance:

A reconnaissance of The Shelford Hills showed a silt sample analysis of Au 30ppm. This is an interesting area.

A trip to the Whitesail area was of little value, most rock viewed was volcanics.

The area East of Whiteing Creek is interesting due to the mixed rock types.

Mosquito Hills was not very interesting, as most rock was sedimentary, on the North and West slopes. Only on the South side is there an intrusion of granodiorite.


Creek
HUCKLEBERRY MINE ROAD
REACH NECHAKO RESERVOIR
LEBERRY
UNTAIN
5061±
2797±
OX LAKE
SITE #1
TROITSA F.S.R.
E S
Rapids
Creek
SITE #4
SITE #3
SITE #2
3500
3000
2800
3100
4500
22
23
24
25
26
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49
40'
47
46
45
44
Joins 93 E/10
93 E 11
Scale 1:50,000 Échelle
Miles 1
0
1
2
3 Milles
Metres 1000
0
1000
2000
3000
4000 Mètres
Yards 1000
0
1000
2000
3000
4000 Verges

FIGURE 2

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Requirements/Regulations 15 to 17, page 6.**
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name RUPERT SEEL Reference Number 99/00 PS

LOCATION/COMMODITIES

Project Area (as listed in Part A) WHITE SAIL MINFILE No. if applicable _____

Location of Project Area NTS 93E Lat _____ Long _____

Description of Location and Access TRUCK TO TAHTSA REACH, BOAT TO KASALKA CREEK, THEN BY ATV. WEST END OF AREA BY FIX WING AIR

Main Commodities Searched For GOLD COPPER

Known Mineral Occurrences in Project Area OX LAKE, HUCKLEBERRY MINE

WORK PERFORMED

1. Conventional Prospecting (area) 50 KM
2. Geological Mapping (hectares/scale) NIL
3. Geochemical (type and no. of samples) 156 SOILS SAMPLES
4. Geophysical (type and line km) _____
5. Physical Work (type and amount) 1 KM OF TRAIL CUT
6. Drilling (no. holes, size, depth in m, total m) _____
7. Other (specify) _____

SIGNIFICANT RESULTS

Commodities GOLD COPPER SILVER Claim Name SEE

Location (show on map) Lat. 53 37 Long 127 05 Elevation 4000 FT

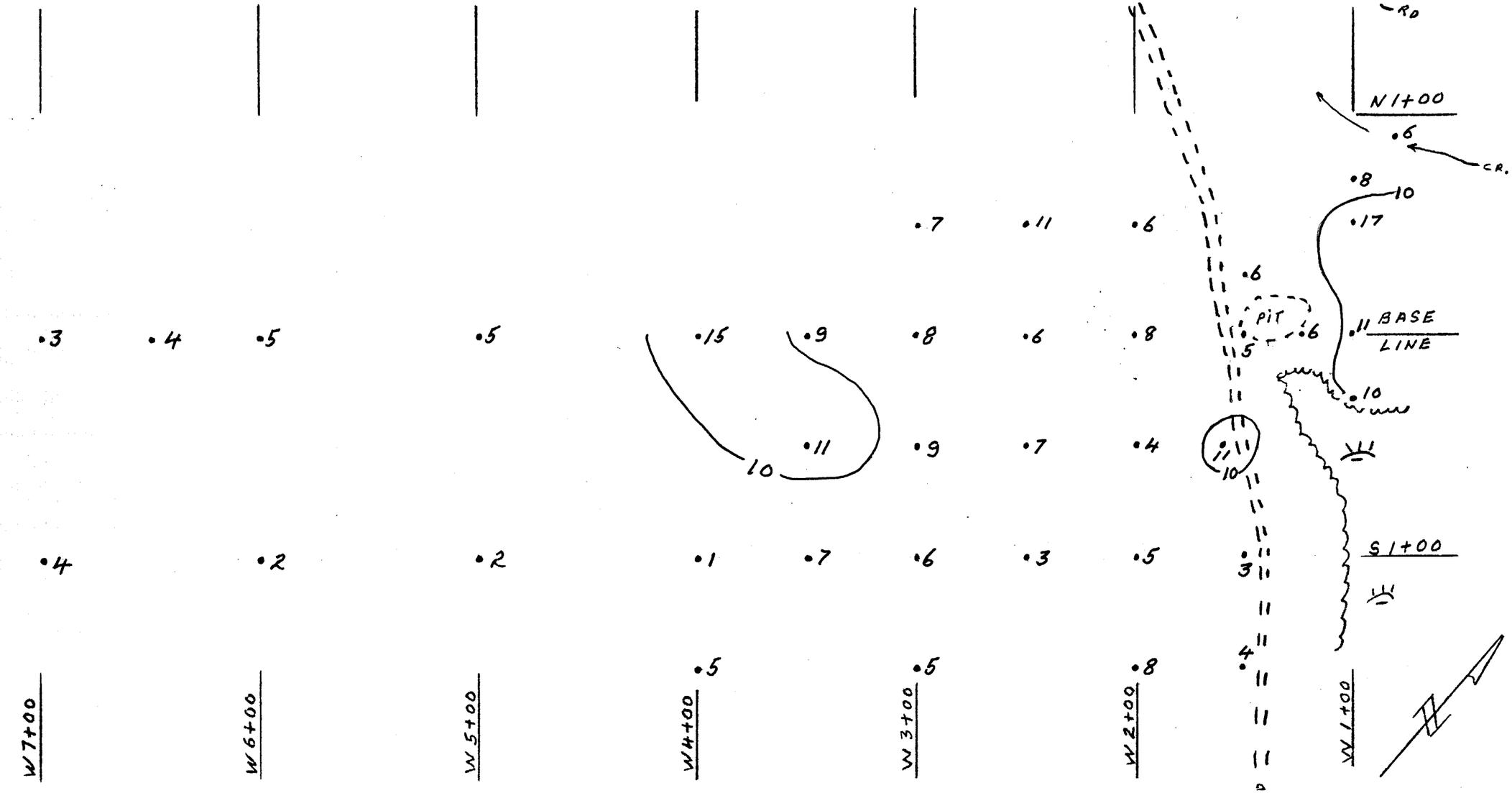
Best assay/sample type GOLD 202 PPB, SILVER 1.8 PPM ARSENIC 475 PPM

Description of mineralization, host rocks, anomalies VOLCANIC AND CHERTS WITH VEINLETS OF PYRITE NEAR A CONTACT ZONE

Supporting data must be submitted with this TECHNICAL REPORT

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act*.

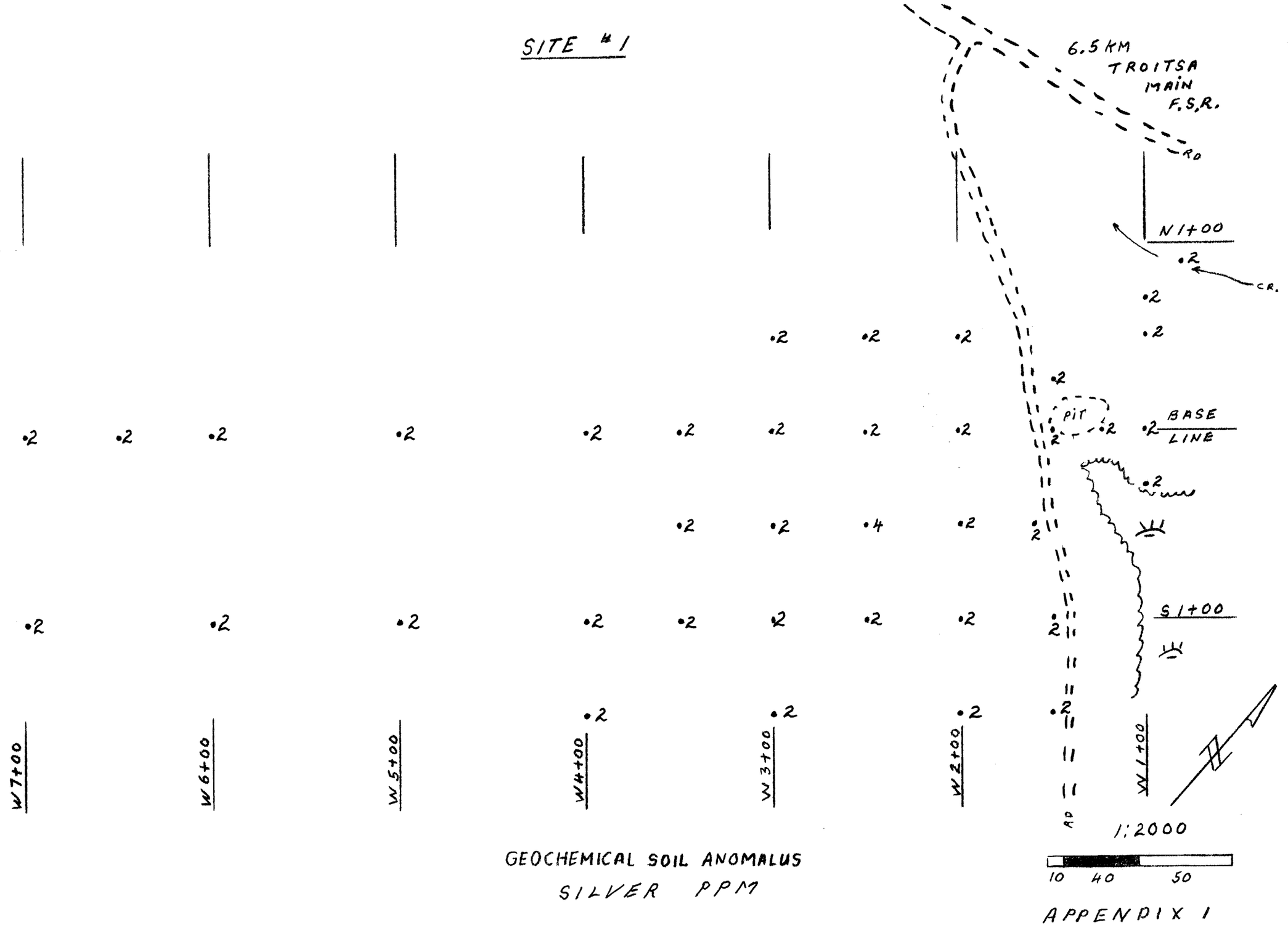
SITE #1



GEOCHEMICAL SOIL ANOMALUS
GOLD P.P.B.

APPENDIX I

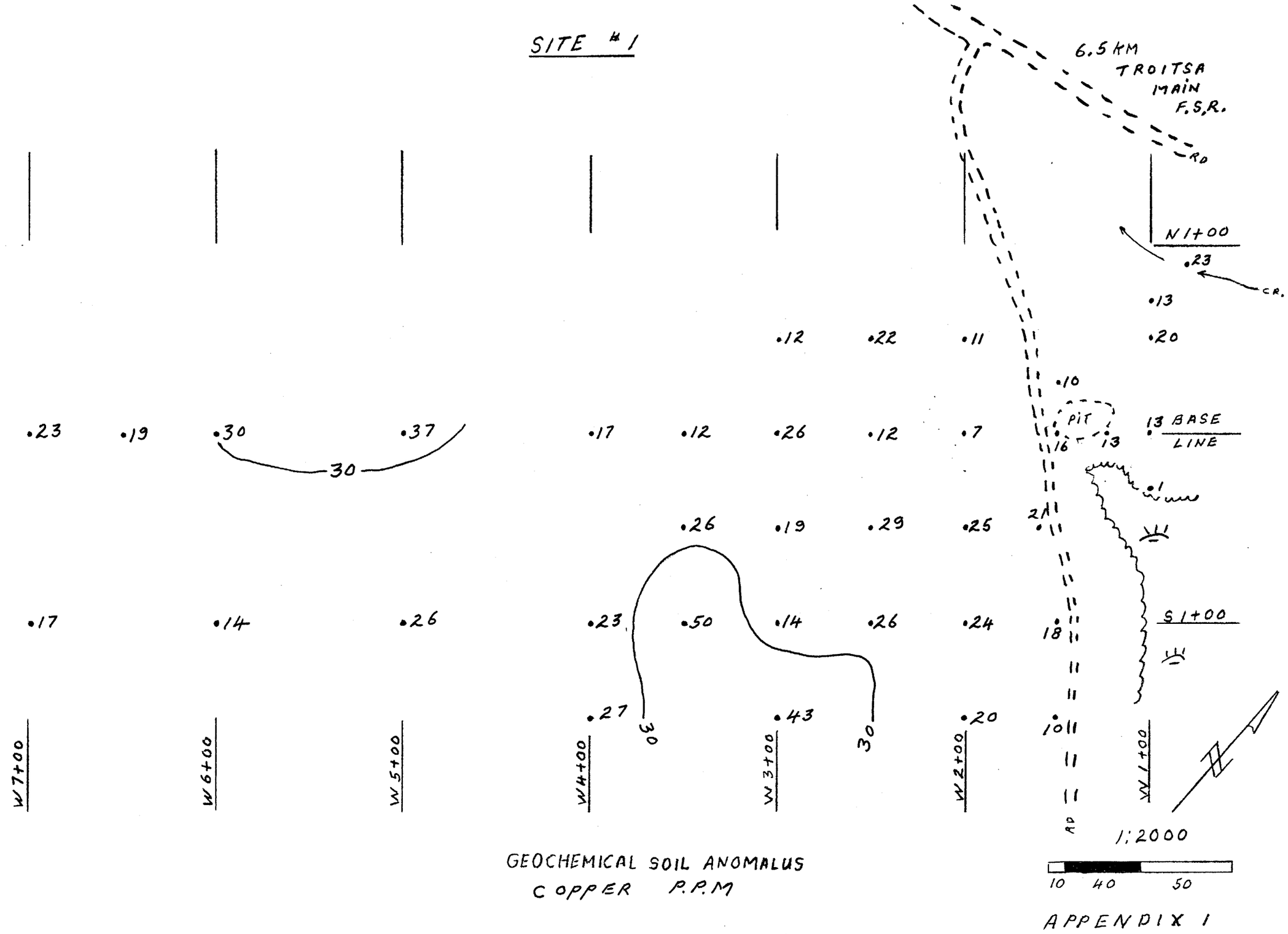
SITE #1



GEOCHEMICAL SOIL ANOMALUS
SILVER PPM

APPENDIX I

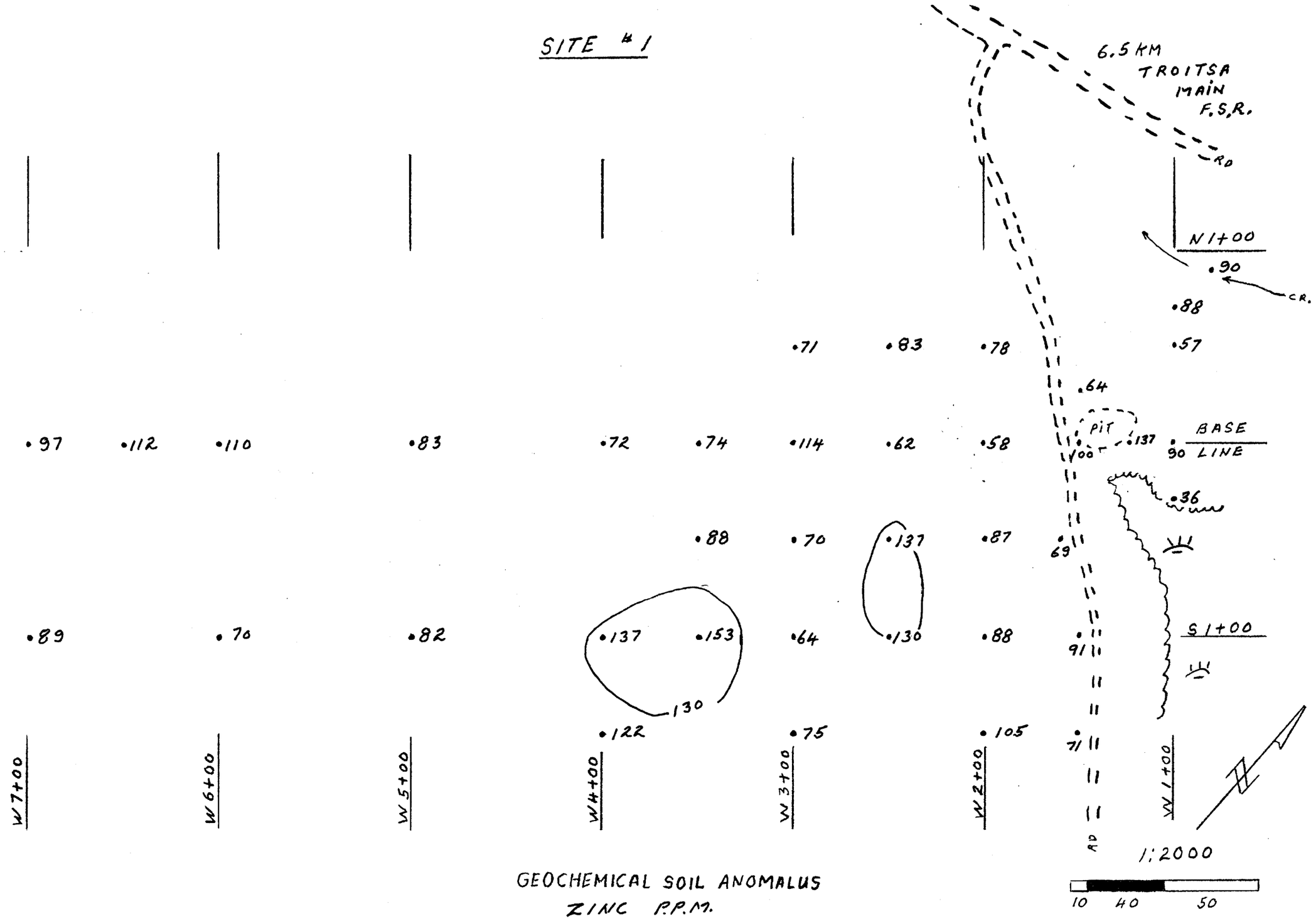
SITE # 1



GEOCHEMICAL SOIL ANOMALUS
COPPER P.P.M

APPENDIX 1

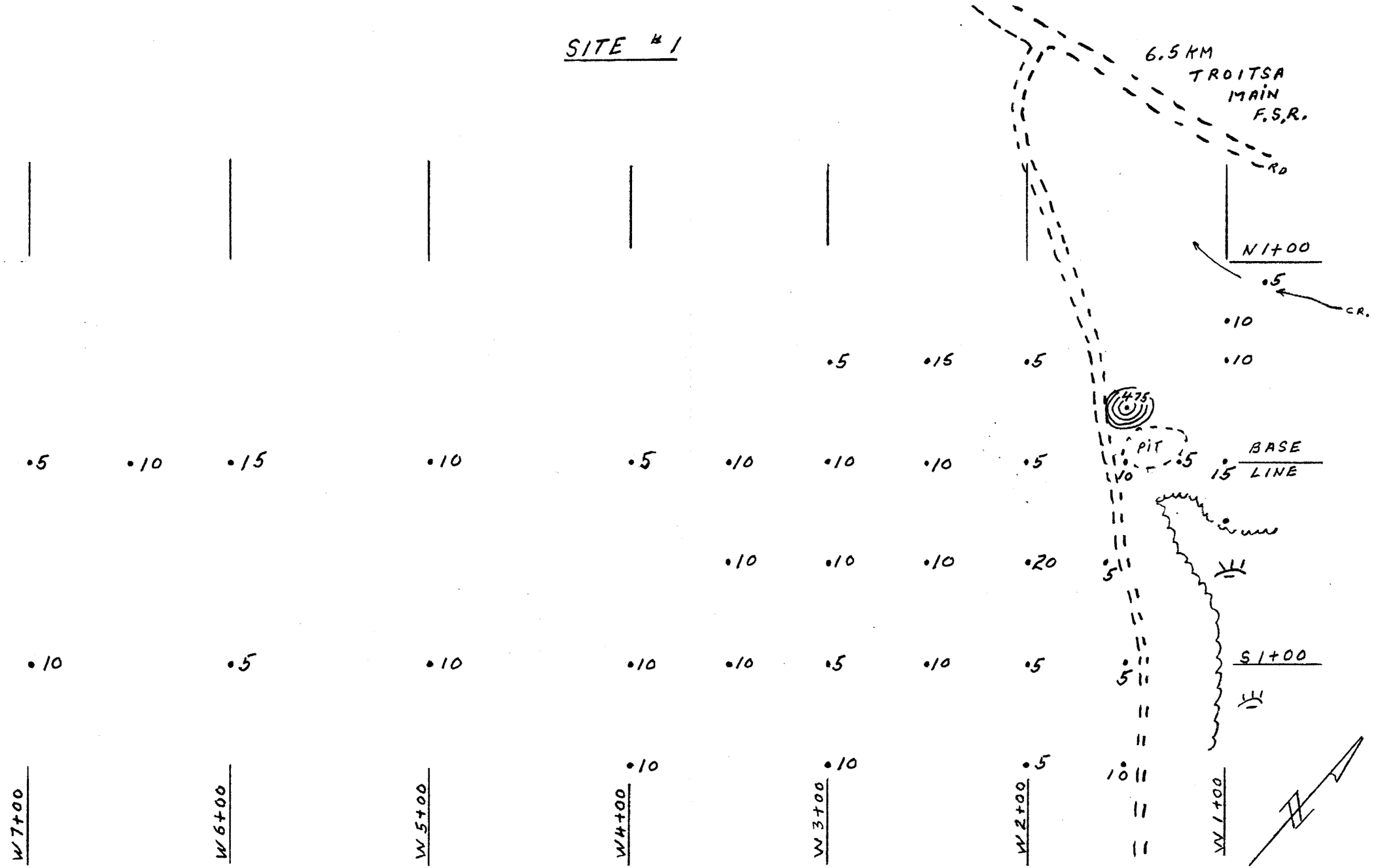
SITE # 1



GEOCHEMICAL SOIL ANOMALUS
ZINC P.P.M.

APPENDIX I

SITE #1



GEOCHEMICAL SOIL ANOMALUS
ARSENIC P.P.M.

APPENDIX 1

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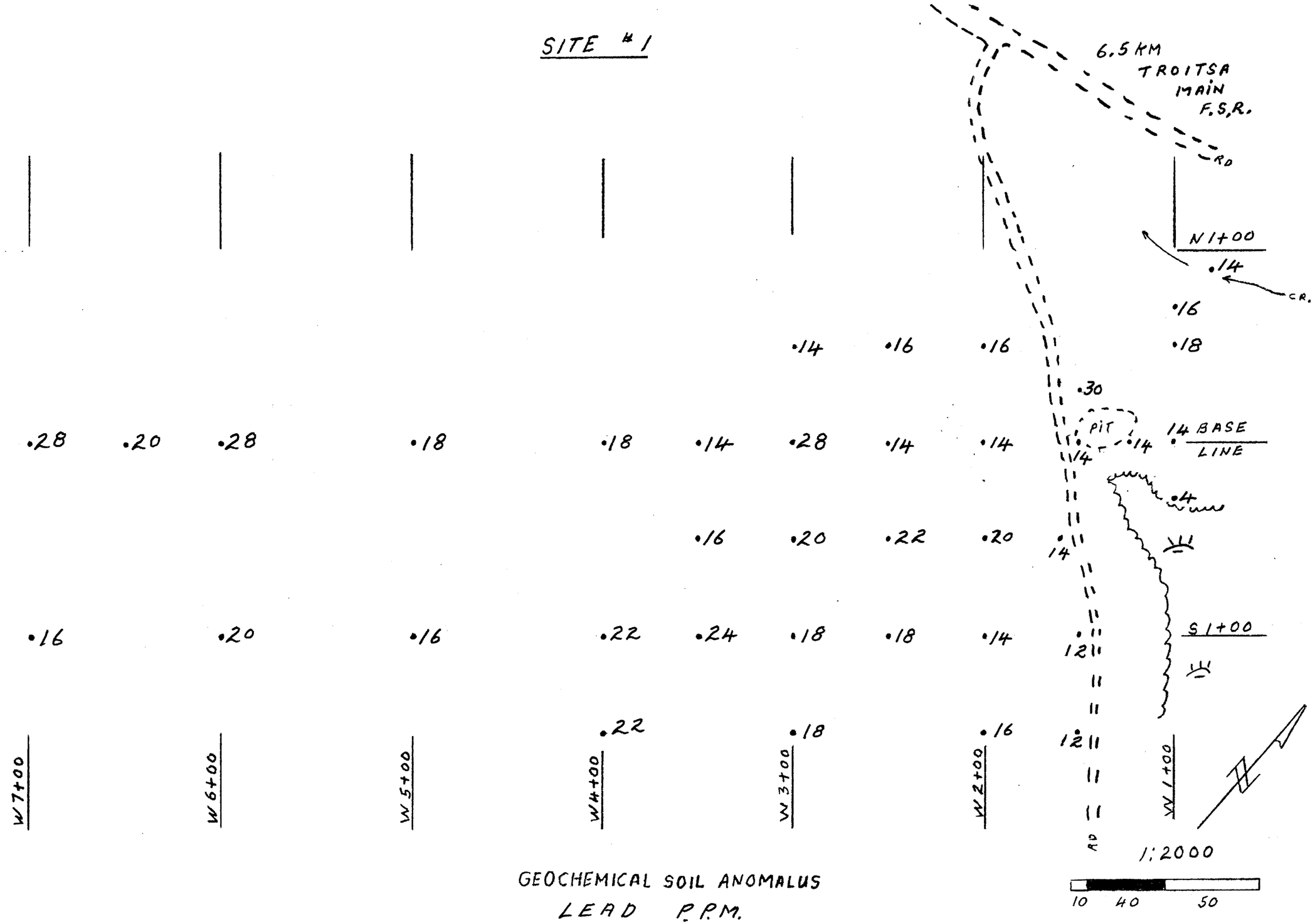
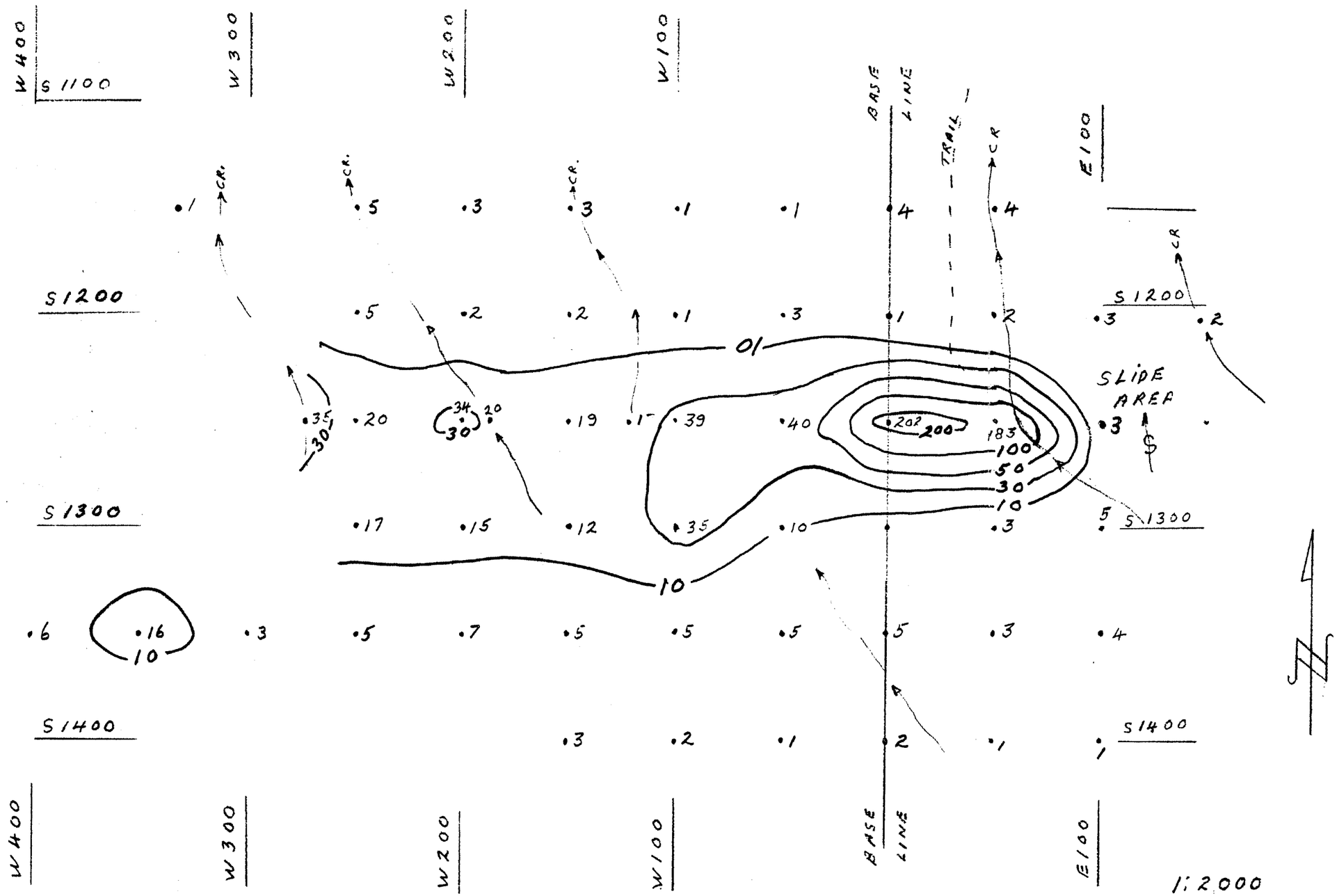


GEOCHEMICAL SOIL ANOMALUS
LEAD P.P.M.

APPENDIX I

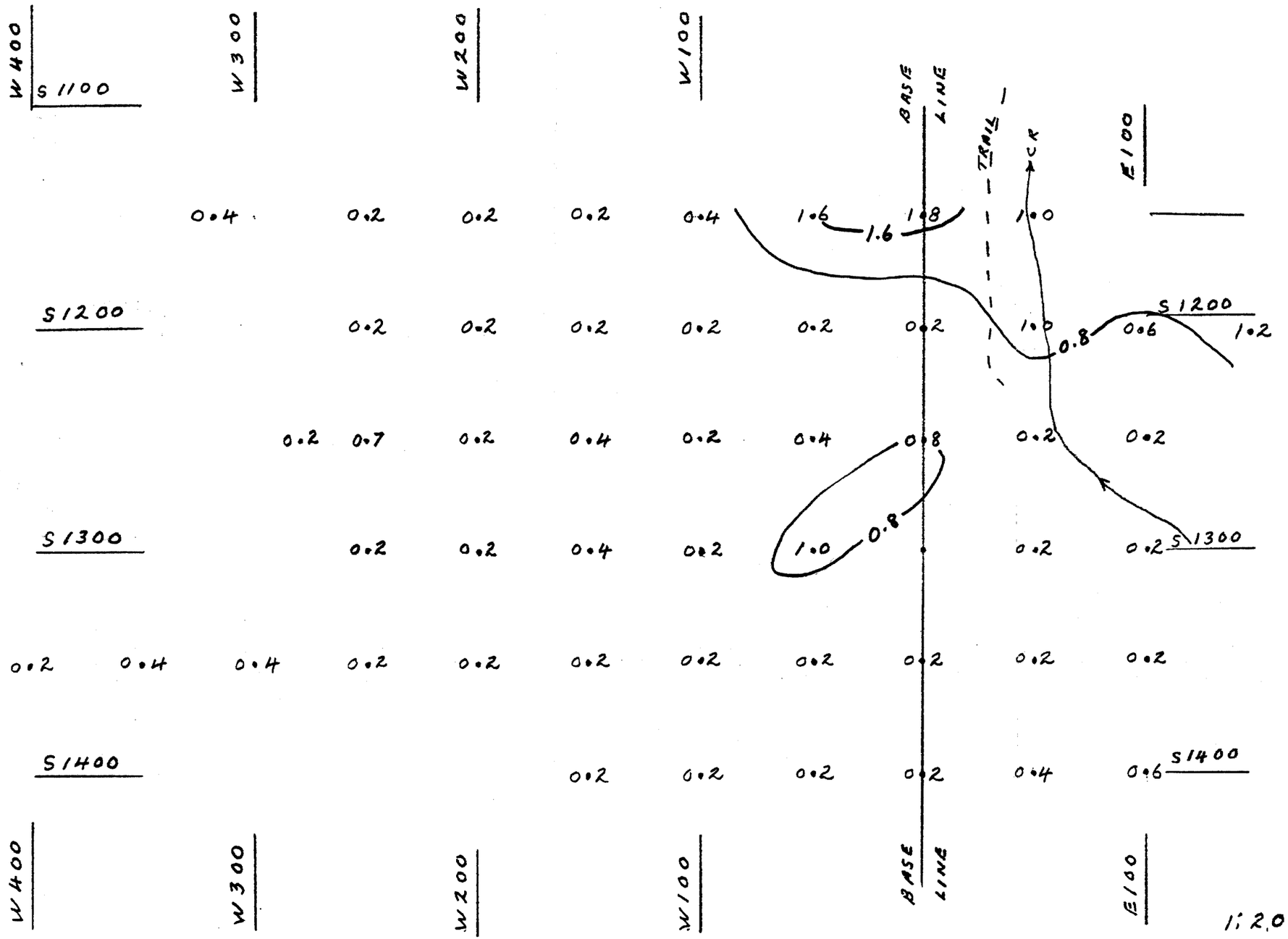
SITE #2



GEOCHEMICAL SOIL ANOMALUS
GOLD P.P.B

APPENDIX 1

SITE #2



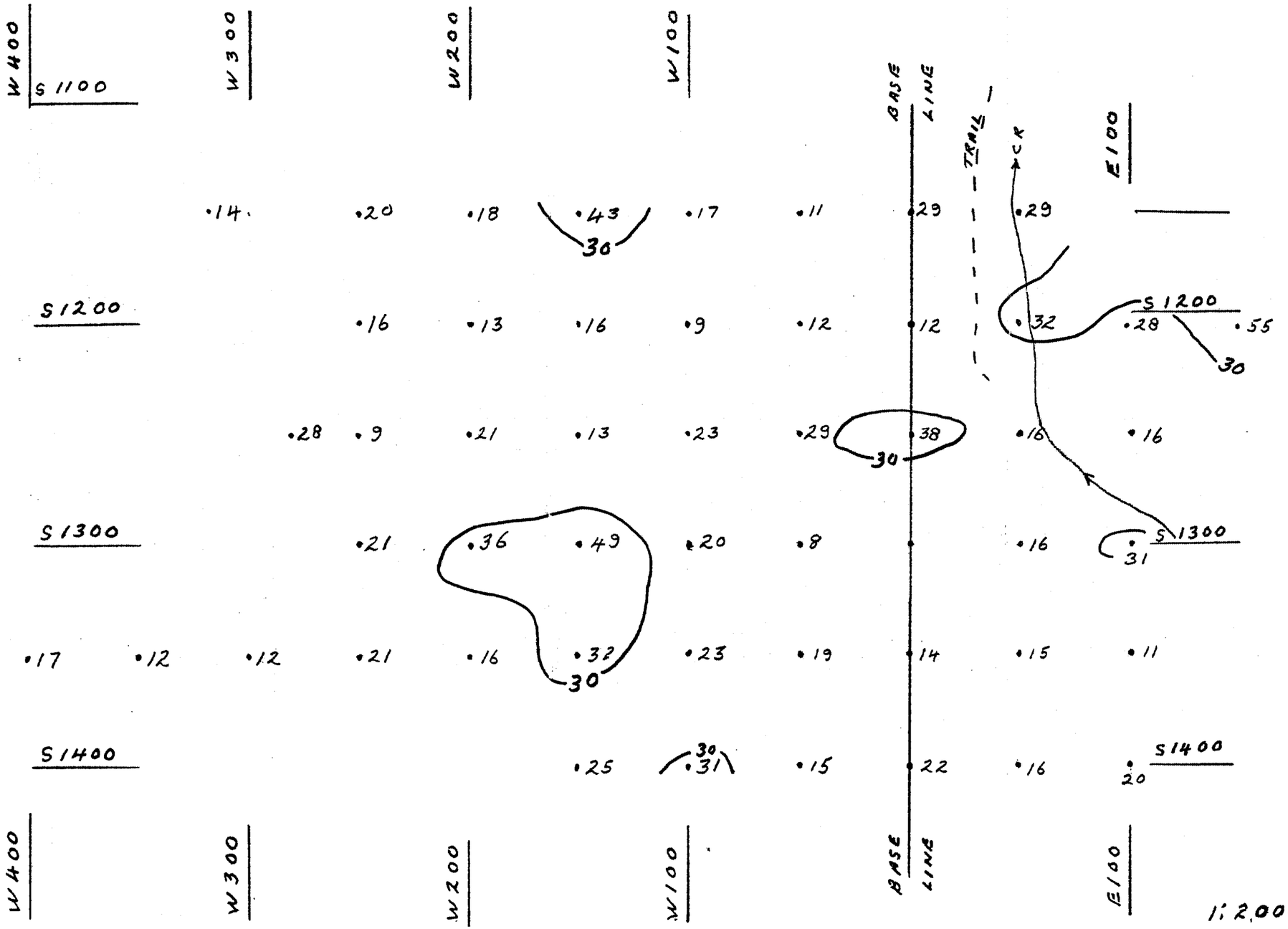
GEOCHEMICAL SOIL ANOMALUS
SILVER P.P.M.

1:2,000

10 40 50

APPENDIX 1

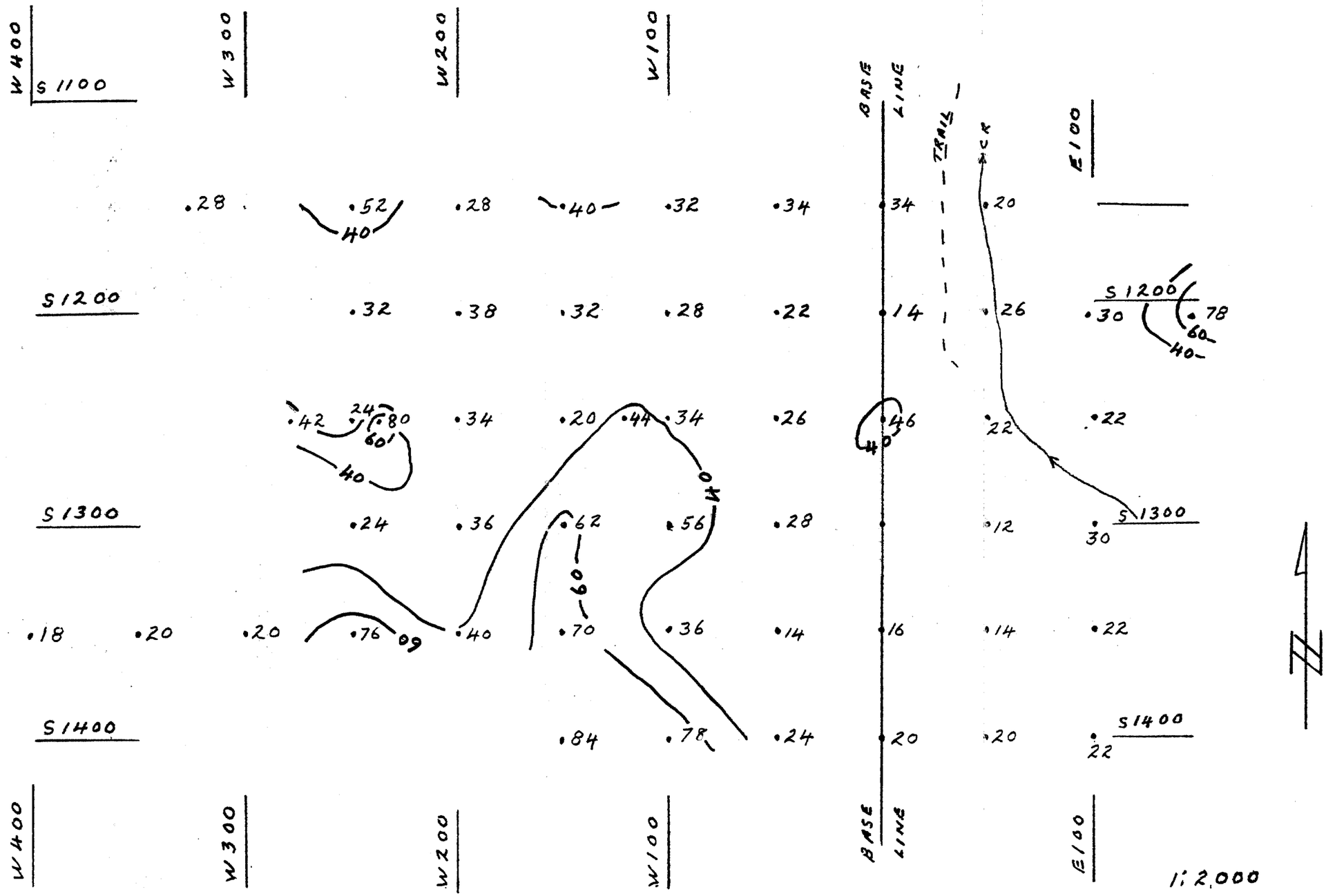
SITE #2



GEOCHEMICAL SOIL ANOMALUS
COPPER P.P.M

APPENDIX I

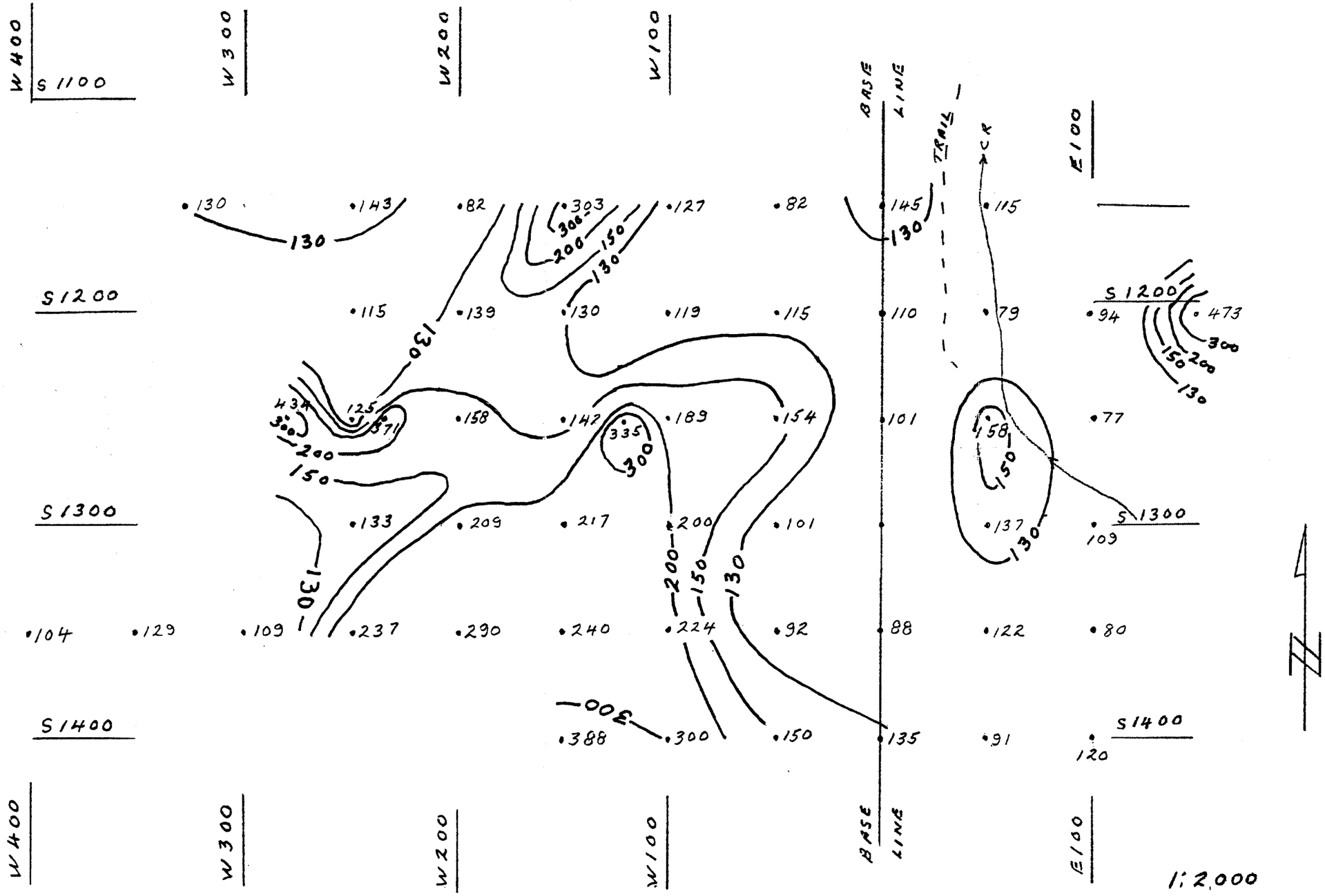
SITE #2



GEOCHEMICAL SOIL ANOMALUS
LEAD P.P.M.

APPENDIX 1

SITE #2



GEOCHEMICAL SOIL ANOMALUS
ZINC P.P.M.

APPENDIX 1

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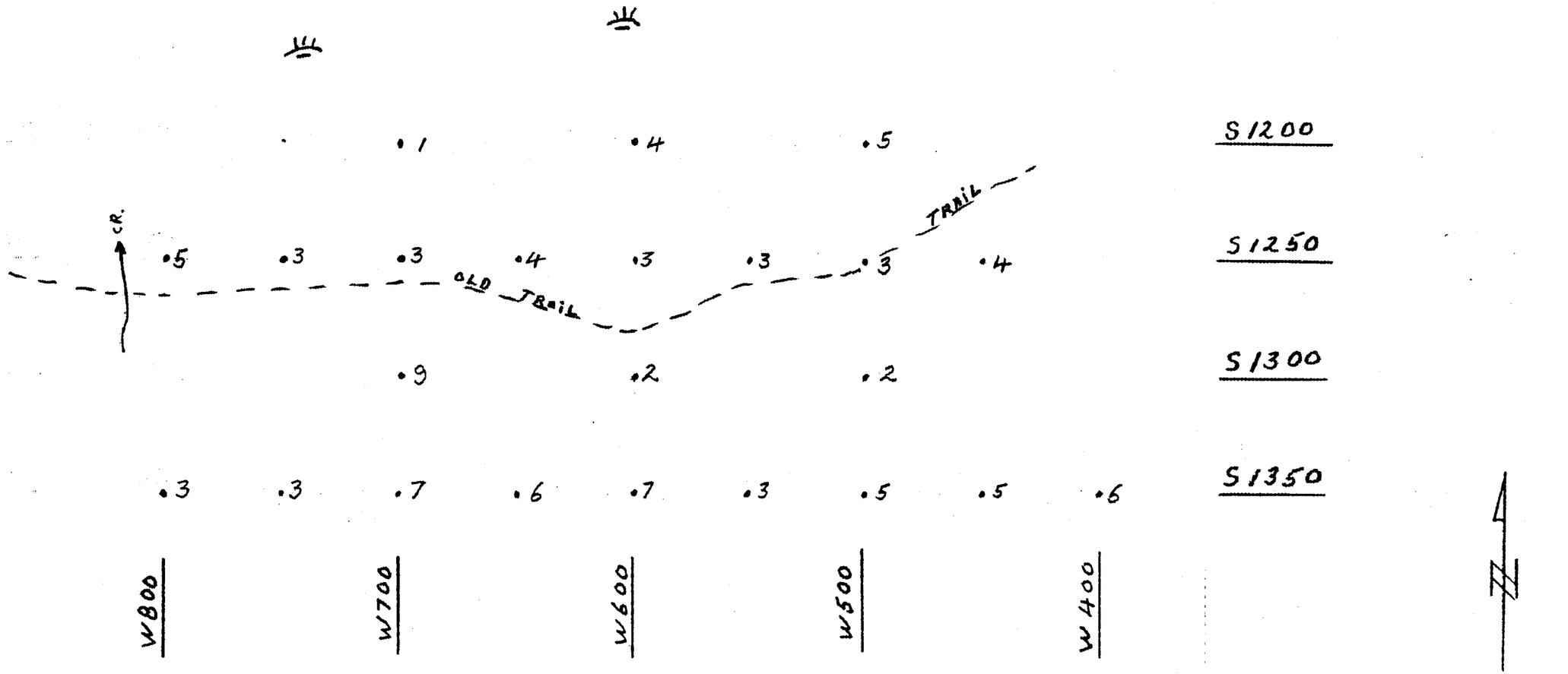

GEOCHEMICAL SOIL ANOMALUS
GOLD P.P.B.

1:2000

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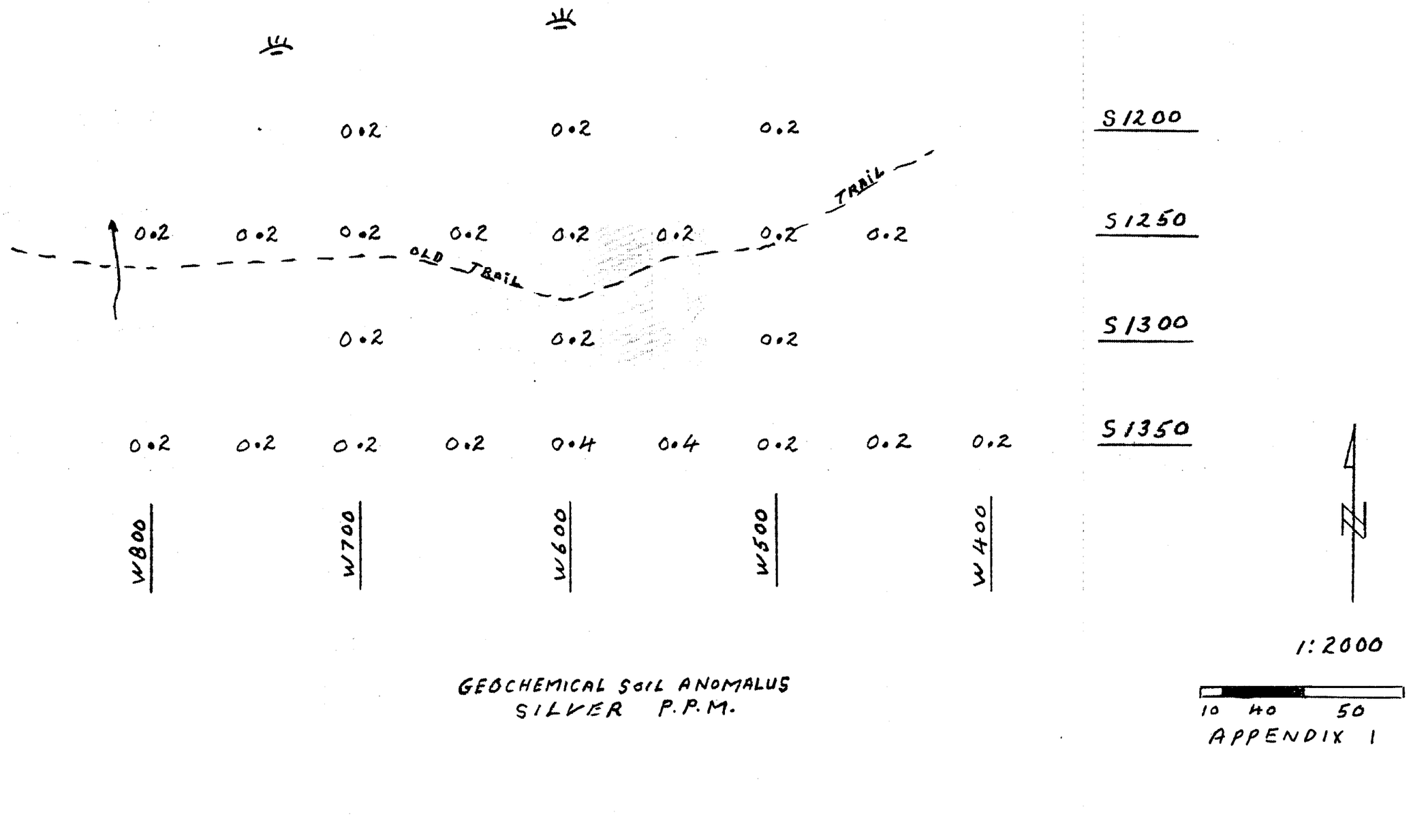
APPENDIX I

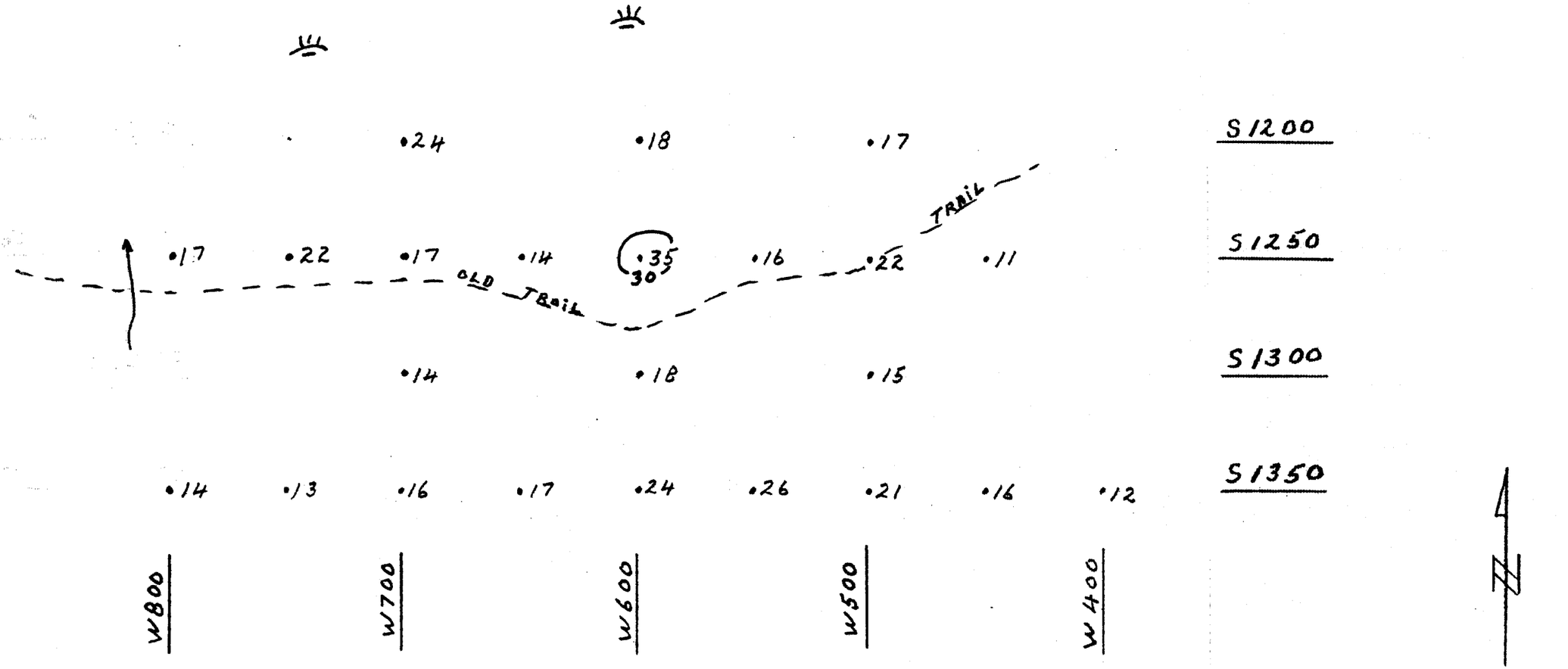
SITE #3



GEOCHEMICAL SOIL ANOMALUS
SILVER P.P.M.

APPENDIX I

SITE #3



GEOCHEMICAL SOIL ANOMALUS
COPPER P.P.M.

APPENDIX 1

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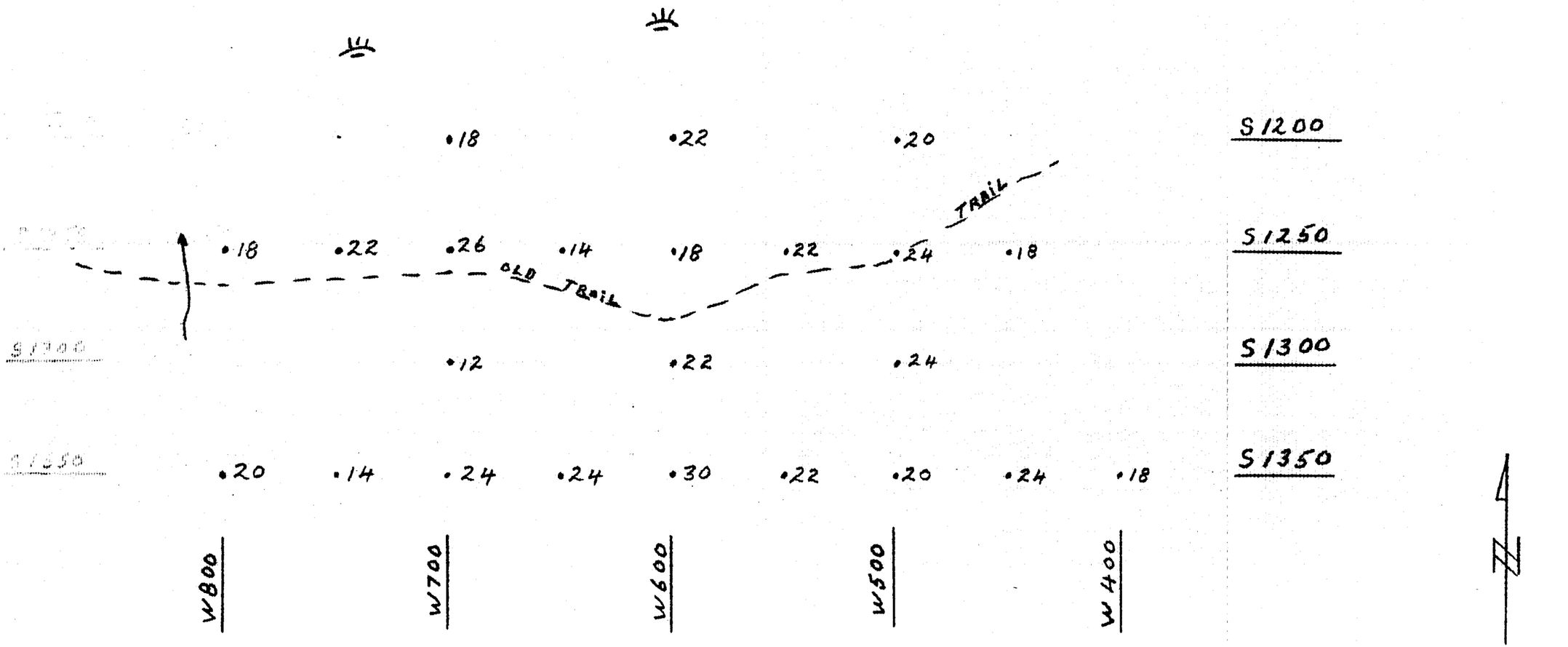


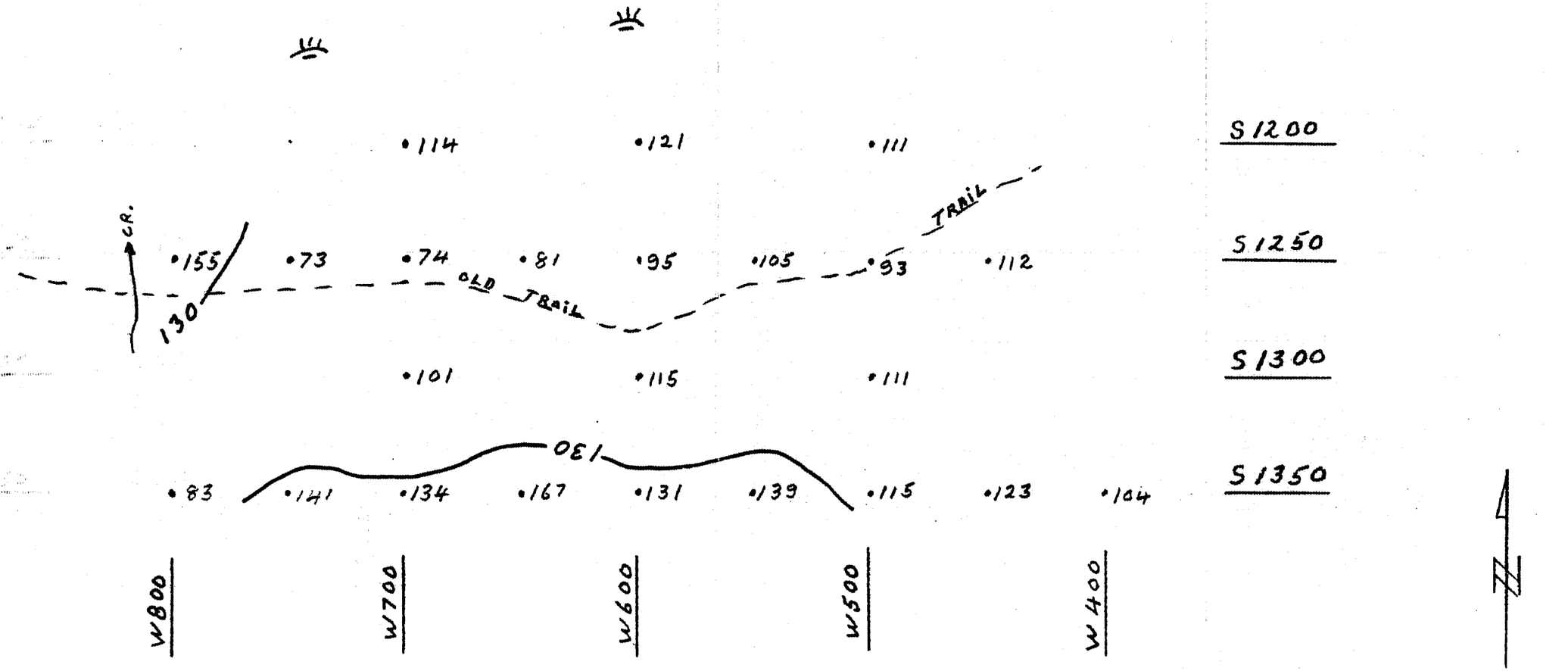
GEOCHEMICAL SOIL ANOMALUS
LEAD P.P.M.

1:2000

10 40 50

APPENDIX 1

SITE #3



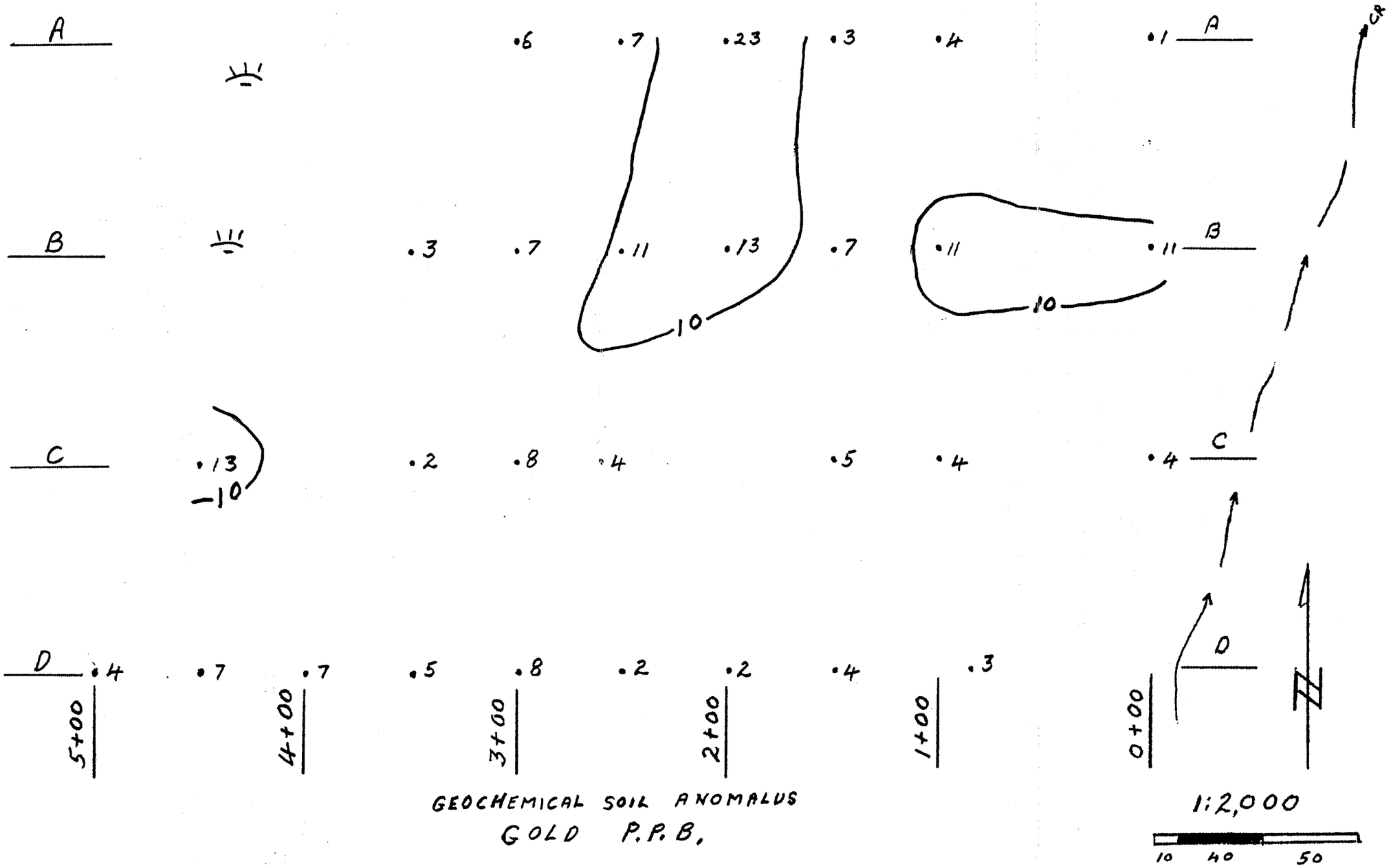
GEOCHEMICAL SOIL ANOMALUS
ZINC P.P.M

1:2000

10 40 50

APPENDIX 1

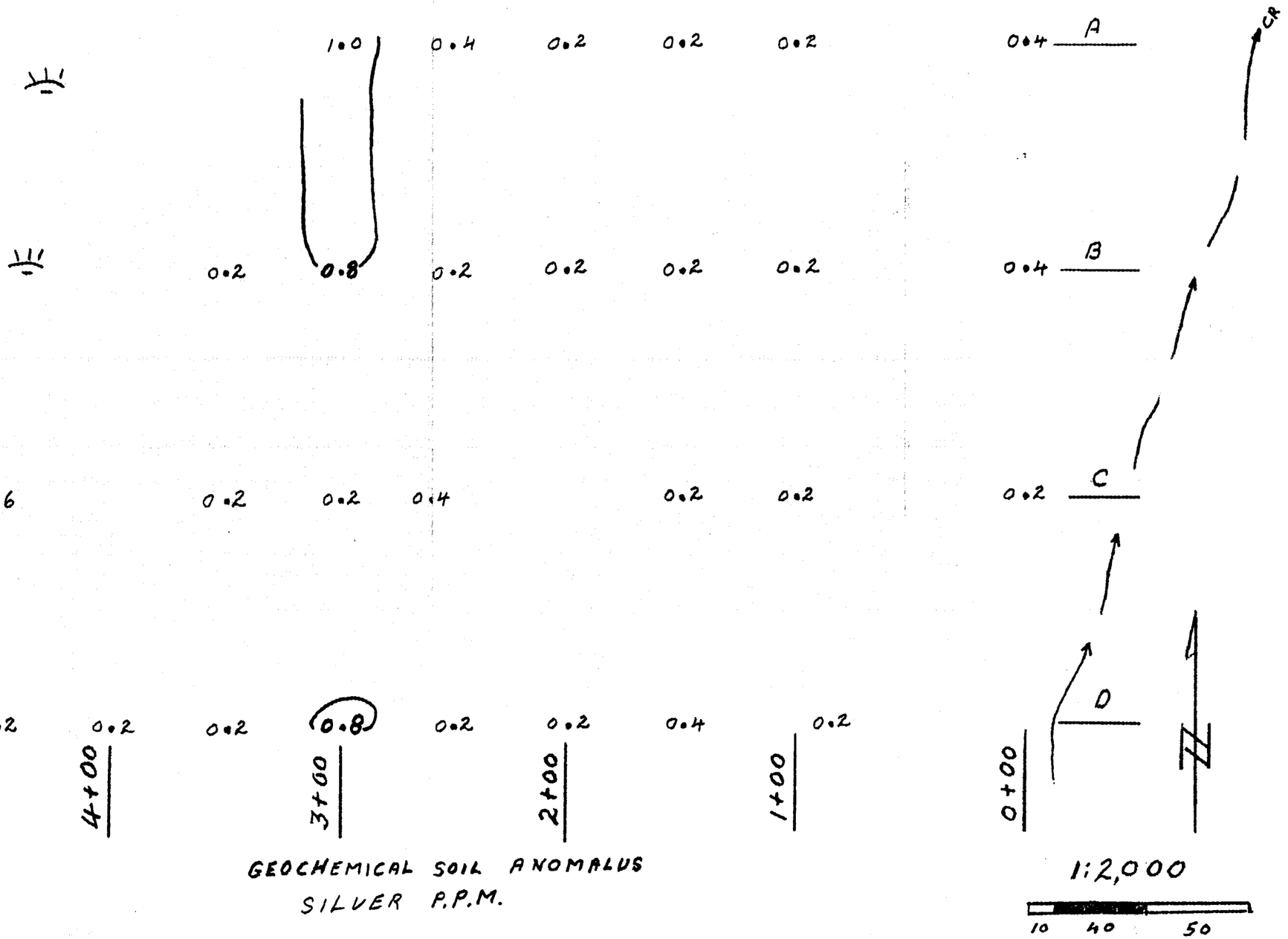
SITE #4



GEOCHEMICAL SOIL ANOMALUS
GOLD P.P.B.

APPENDIX I

SITE "4



GEOCHEMICAL SOIL ANOMALUS
SILVER P.P.M.

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APPENDIX I

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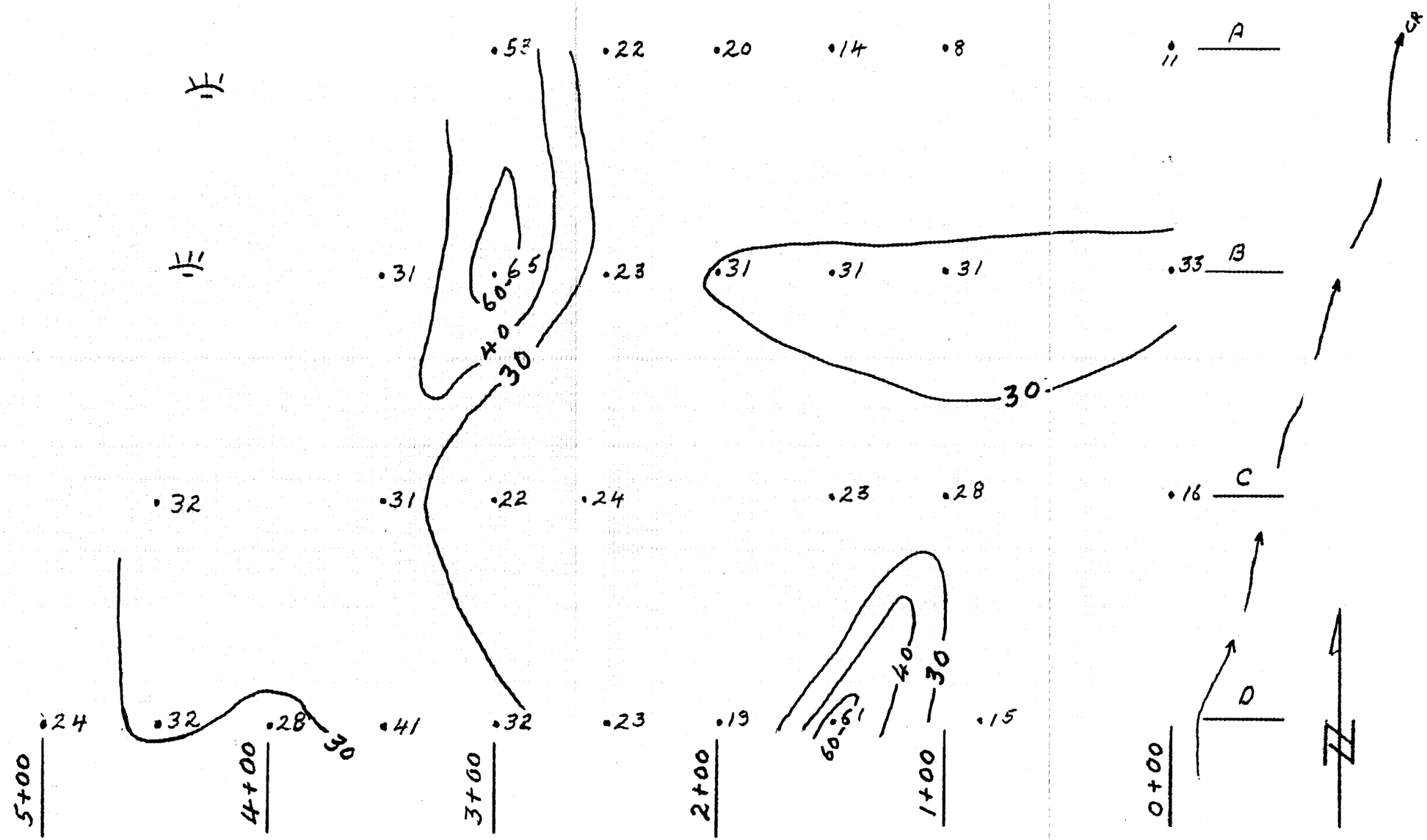
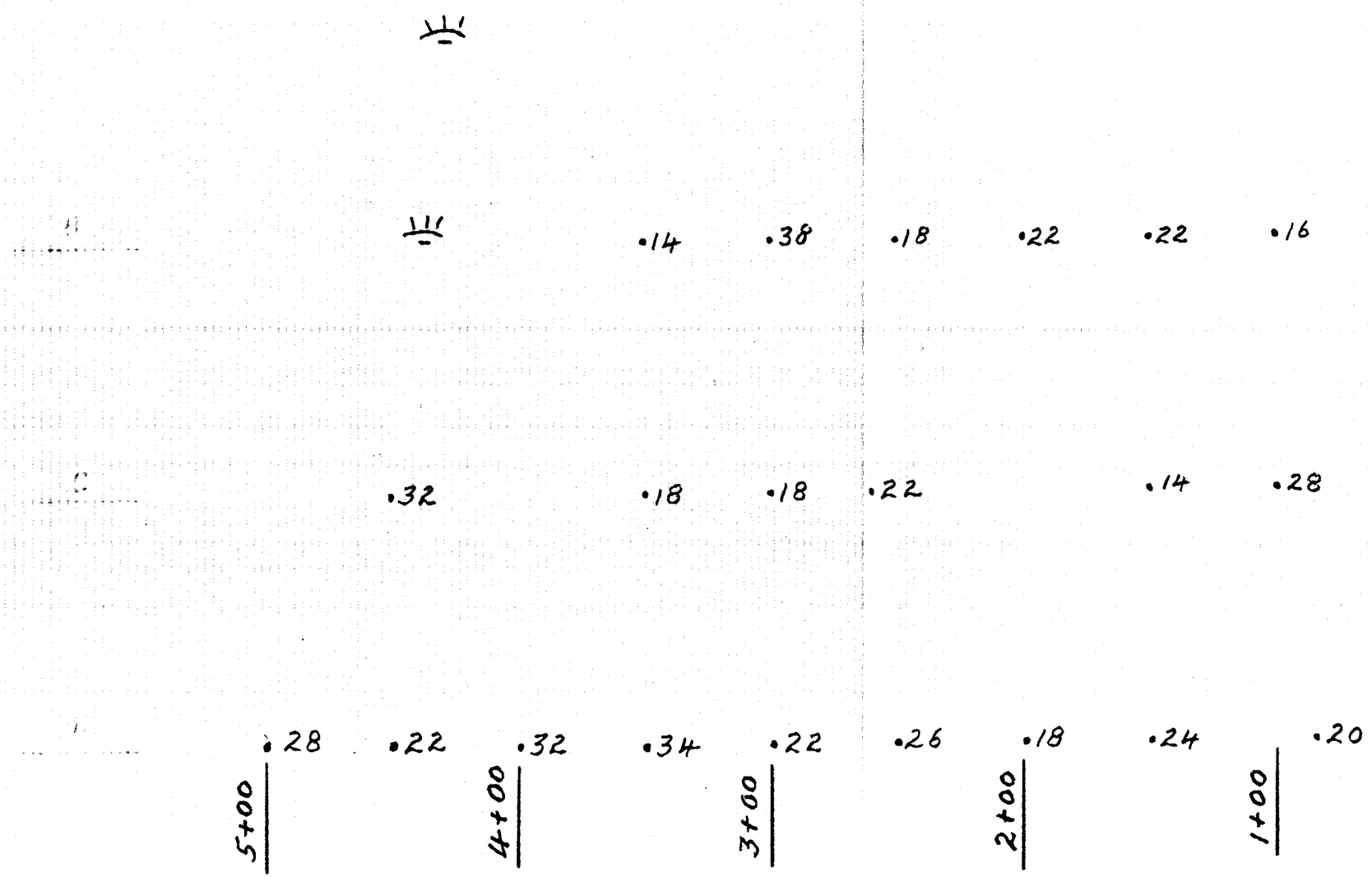


GEOCHEMICAL SOIL ANOMALUS
COPPER P.P.M.

APPENDIX I

SITE #4



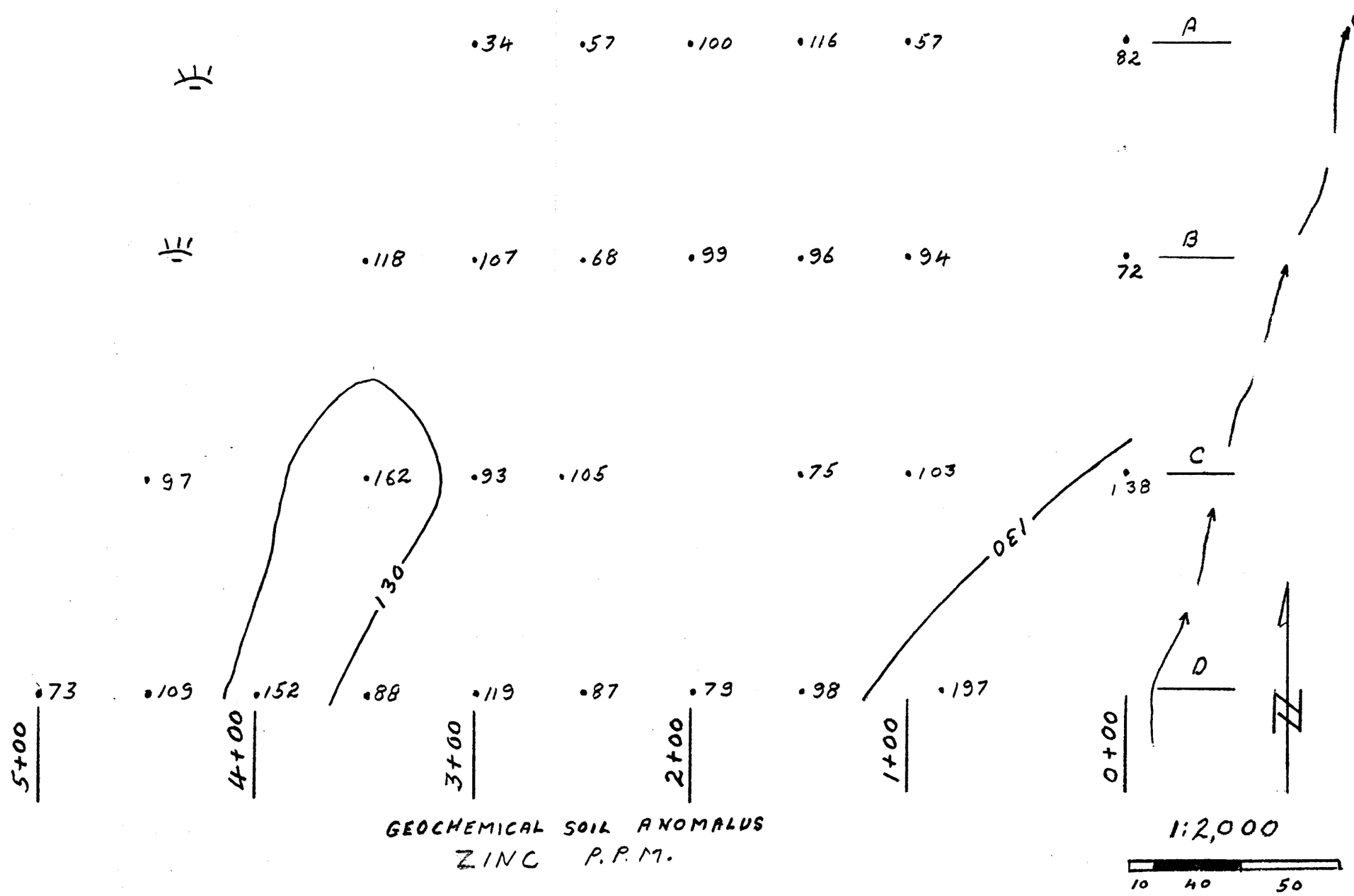
GEOCHEMICAL SOIL ANOMALUS
LEAD P.P.M.

1:2,000

10 40 50

APPENDIX I

SITE #4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•82
A
CR
•118 •107 •68 •99 •96 •94
•72
B
•97 •162 •93 •105 •75 •103
•138
C
130
130
•73 •109 •152 •88 •119 •87 •79 •98 •197
D
5+00
4+00
3+00
2+00
1+00
0+00
GEOCHEMICAL SOIL ANOMALUS
ZINC P.P.M.
1:2,000
10 40 50

TSL Assayers Vancouver
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-0300-SG2

Company: **Rupert Seel**
Project:
Attn: Rupert Seel

Aug-31-99

We *hereby certify* the following geochemical analysis of 6 soil samples submitted Aug-24-99 by Rupert Seel.

Sample Name	Au PPB
P S 0+50 W 2+00	4
P S 0+50 W 2+50	7
P S 0+50 W 3+00	9
P S 0+50 W 3+50	11
P N 0+50 W 1+00	17
P N 0+70 W 1+00	8

SITE 1

Certified by _____

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8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
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TSL Assayers Saskatoon
#2 - 302 East 48th Street
Saskatoon, Saskatchewan
S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

TSL Assayers Swastika
1 Cameron Ave.
Swastika, Ontario
P0K 1T0
Tel: (705) 642-3244 Fax: (705) 642-3300

TSL Assayers Vancouver
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-0300-RG1

Company: **Rupert Seel**
Project:
Attn: Rupert Seel

Aug-31-99

We *hereby certify* the following geochemical analysis of 4 rock samples submitted Aug-24-99 by Rupert Seel.

Sample Name	Au PPB
99-1	4
99-2	2
99-3	7
SITE 1 P N 0+25 W 1+50	6

Certified by _____

TSL Assayers Vancouver
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V5X 4R6
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TSL Assayers Saskatoon
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Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-0305-SG2

Company: **Rupert Seel**
Project:
Attn: Rupert Seel

Sep-03-99

We *hereby certify* the following geochemical analysis of 1 sample submitted Aug-27-99 by Rupert Seel.

Sample Name	Au PPB
P W7+00 S1+00	4

SITE 1

Certified by _____

TSL Assayers Vancouver
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
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Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-0305-SG1

Company: **Rupert Seel**
Project:
Attn: Rupert Seel

Sep-03-99

We *hereby certify* the following geochemical analysis of 24 soil samples submitted Aug-27-99 by Rupert Seel.

Sample Name	Au PPB
99-4	7
99-5	7
99-6	8
P B/L W4+00	15
P B/L W5+00	5
P B/L W6+00	5
P B/L W6+50	4
P B/L W7+00	3
P W0+80 N0+90	6
P W2+00 N0+50	6
P W2+50 N0+50	11
P W3+00 N0+50	7
P W1+50 S1+00	3
P W1+50 S1+50	4
P W2+00 S1+00	5
P W2+00 S1+50	8
P W2+50 S1+00	3
P W3+00 S1+00	6
P W3+00 S1+50	5
P W3+50 S1+00	7
P W4+00 S1+00	1
P W4+00 S1+50	5
P W5+00 S1+00	2
P W6+00 S1+00	2

SITE 1

Certified by _____

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Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-0300-SG1

Company: **Rupert Seel**

Aug-31-99

Project:

Attn: Rupert Seel

We *hereby certify* the following geochemical analysis of 24 soil samples submitted Aug-24-99 by Rupert Seel.

Sample Name	Au PPB
L2-1	183
L2-2	202
L2-3	40
L2-4	39
L2-5	19
L2-6	34
L2-7	20
L2-175	17
L2-240	20
L2-330	35
L3-3	17
L3-4	15
L3-5	12
L3-6	35
L3-7	10
B/L P 1+00	11
B/L P 1+25	6
B/L P 1+50	5
B/L P 2+00	8
B/L P 2+50	6
B/L P 3+00	8
B/L P 3+50	9
P S 0+30 W 1+00	10
P S 0+50 W 1+60	11

SITE #2

SITE #1

Certified by _____

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TSL Assayers Saskatoon
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Saskatoon, Saskatchewan
S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

TSL Assayers Swastika
1 Cameron Ave.
Swastika, Ontario
P0K 1T0
Tel: (705) 642-3244 Fax: (705) 642-3300

TSL Assayers Vancouver
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-0372-SG1

Company: **Rupert Seel**
Project:
Attn: Rupert Seel

Oct-14-99

We *hereby certify* the following geochemical analysis of 24 soil samples submitted Oct-05-99 by Rupert Seel.

Sample Name	Au PPB
S800 E50	3
S1150 E50	4
S1150 B/L	4
S1150 W50	1
S1150 W100	1
S1150 W150	3
S1150 W200	3
S1150 W250	5
S1150 W335	1
S1200 E150	2
S1200 E100	3
S1200 E50	2
S1200 B/L	1
S1200 W50	3
S1200 W100	1
S1200 W150	2
S1200 W200	2
S1200 W250	5
S1200 W500	5
S1200 W600	4
S1210 W700	1
S1250 E100	3
S1250 W450	4
S1250 W500	3

SITE 2

Certified by _____

TSL Assayers Vancouver
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436 Fax: (604) 327-3423

TSL Assayers Saskatoon
#2 - 302 East 48th Street
Saskatoon, Saskatchewan
S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

TSL Assayers Swastika
1 Cameron Ave.
Swastika, Ontario
P0K 1T0
Tel: (705) 642-3244 Fax: (705) 642-3300

TSL Assayers Vancouver
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-0372-SG3

Company: **Rupert Seel**
Project:
Attn: Rupert Seel

Oct-14-99

We *hereby certify* the following geochemical analysis of 24 soil samples submitted Oct-05-99 by Rupert Seel.

Sample Name	Au PPB
S1350 W550	3
S1350 W600	7
S1350 W650	6
S1350 W700	7
S1350 W750	3
S1350 W800	3
S1400 E100	1
S1400 E50	1
S1400 W0	2
S1400 W50	1
S1400 W100	2
S1400 W150	3
A 0+00	1
A 1+00	4
A 1+50	3
A 2+00	23
A 2+50	7
A 3+00	6
B 0+00	11
B 1+00	11
B 1+50	7
B 2+00	13
B 2+50	11
B 3+00	7

SITE 2 | SITE 3

SITE 4

Certified by _____

TSL Assayers Vancouver
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436 Fax: (604) 327-3423

TSL Assayers Saskatoon
#2 - 302 East 48th Street
Saskatoon, Saskatchewan
S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

TSL Assayers Swastika
1 Cameron Ave.
Swastika, Ontario
P0K 1T0
Tel: (705) 642-3244 Fax: (705) 642-3300

TSL Assayers Vancouver
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-0372-SG2

Company: **Rupert Seel**
Project:
Attn: Rupert Seel

Oct-14-99

We *hereby certify* the following geochemical analysis of samples submitted Oct-05-99 by Rupert Seel.

Sample Name	Au PPB
S1250 W550	3
S1250 W600	3
S1250 W650	4
S1250 W700	3
S1250 W750	3
S1250 W800	3
S1300 E100	5
S1300 E50	3
S1300 W500	2
S1300 W600	2
S1300 W700	9
S1350 E100	4
S1350 E50	3
S1350 B/L	5
S1350 W50	5
S1350 W100	5
S1350 W150	5
S1350 W200	7
S1350 W250	5
S1350 W300	3
S1350 W350	16
S1350 W400	6
S1350 W450	5
S1350 W500	5

SITE 3

SITE 2

Certified by _____

TSL Assayers Vancouver
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
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#2 - 302 East 48th Street
Saskatoon, Saskatchewan
S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

TSL Assayers Swastika
1 Cameron Ave.
Swastika, Ontario
P0K 1T0
Tel: (705) 642-3244 Fax: (705) 642-3300

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8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-0372-SG4

Company: **Rupert Seel**
Project:
Attn: Rupert Seel

Oct-14-99

We *hereby certify* the following geochemical analysis of 24 soil samples submitted Oct-05-99 by Rupert Seel.

Sample Name	Au PPB
B 3+50	3
C 0+00	4
C 1+00	4
C 1+50	5
C 2+60	4
C 3+00	8
C 3+50	2
C 4+50	13
D 0+80	3
D 1+50	4
D 2+00	2
D 2+50	2
D 3+00	8
D 3+50	5
D 4+00	7
D 4+50	7
D 5+00	4
X 0+30	2
X 1+00	2
X 2+00	2
X 3+00	2
X 4+00	3
X 5+00	1
X 6+50	5

SITE 4

Certified by _____

TSL Assayers Vancouver
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436 Fax: (604) 327-3423

TSL Assayers Saskatoon
#2 - 302 East 48th Street
Saskatoon, Saskatchewan
S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

TSL Assayers Swastika
1 Cameron Ave.
Swastika, Ontario
P0K 1T0
Tel: (705) 642-3244 Fax: (705) 642-3300

TSL Assayers Vancouver
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Geochemical Analysis Certificate

9V-0372-SG5

Company: **Rupert Seel**
Project:
Attn: Rupert Seel

Oct-14-99

We *hereby certify* the following geochemical analysis of 1 soil sample submitted Oct-05-99 by Rupert Seel.

Sample Name	Au PPB
99-7	33

Certified by _____

TSL Assayers Vancouver
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436 Fax: (604) 327-3423

TSL Assayers Saskatoon
#2 - 302 East 48th Street
Saskatoon, Saskatchewan
S7K 6A4
Tel: (306) 931-1033 Fax: (306) 242-4717

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1 Cameron Ave.
Swastika, Ontario
P0K 1T0
Tel: (705) 642-3244 Fax: (705) 642-3300

TSL Assayers Vancouver

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6

Tel: (604) 327-3436 Fax: (604) 327-3423

Rupert Seel

Attention: Rupert Seel

Project:

Sample: .

Report No : 9V0305 SJ

Date : Sep-03-99

MULTI-ELEMENT ICP ANALYSIS

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
99-4	<0.2	1.82	5	140	<0.5	<5	0.13	<1	9	23	17	3.58	0.05	0.41	395	<2	0.01	12	680	14	<5	4	<10	13	0.12	72	<10	6	76	7
99-5	<0.2	2.67	5	70	<0.5	<5	0.11	<1	11	29	31	3.99	0.05	0.51	445	2	0.01	17	1480	14	<5	4	<10	11	0.11	75	<10	3	126	7
99-6	<0.2	2.47	10	110	1.0	<5	0.18	<1	12	25	32	6.44	0.06	0.53	720	6	0.01	15	1730	20	5	6	<10	16	0.06	100	<10	14	212	5
P B/L W4+00	<0.2	1.87	5	100	<0.5	<5	0.11	<1	6	19	17	3.53	0.05	0.30	295	2	0.01	10	690	18	<5	3	<10	16	0.09	68	<10	3	72	4
P B/L W5+00	<0.2	2.33	10	60	<0.5	<5	0.12	<1	9	22	37	3.50	0.04	0.34	325	2	0.01	12	670	18	<5	4	<10	11	0.10	60	<10	6	83	5
P B/L W6+00	<0.2	2.29	15	110	<0.5	<5	0.10	<1	9	22	30	3.62	0.06	0.41	320	2	0.01	14	500	28	<5	4	<10	10	0.10	66	<10	4	110	5
P B/L W6+50	<0.2	1.88	10	60	<0.5	<5	0.12	<1	7	20	19	3.49	0.04	0.36	345	2	0.01	10	590	20	<5	3	<10	11	0.11	63	<10	5	112	3
P B/L W7+00	0.2	1.80	5	90	<0.5	<5	0.17	<1	8	21	23	3.35	0.05	0.24	715	2	0.01	8	640	28	<5	3	<10	16	0.17	71	<10	5	97	3
P W0+80 N0+90	<0.2	1.94	5	120	<0.5	<5	0.14	<1	8	21	23	2.91	0.05	0.38	355	<2	0.01	13	480	14	<5	4	<10	17	0.11	58	<10	5	90	4
P W2+00 N0+50	<0.2	1.30	5	90	<0.5	<5	0.15	<1	6	18	11	3.53	0.06	0.23	450	2	0.01	7	890	16	<5	2	<10	13	0.13	73	<10	2	78	3
P W2+50 N0+50	<0.2	2.09	15	80	<0.5	<5	0.20	<1	7	22	22	3.83	0.04	0.34	455	2	0.01	10	770	16	<5	3	<10	15	0.13	71	<10	6	84	4
P W3+00 N0+50	<0.2	2.46	5	70	<0.5	<5	0.14	<1	7	20	12	3.44	0.03	0.27	265	<2	0.01	9	670	14	<5	3	<10	13	0.11	59	<10	4	71	4
P W1+50 S1+00	<0.2	1.80	5	110	<0.5	<5	0.20	<1	8	20	18	3.02	0.05	0.42	425	2	0.01	10	470	12	<5	4	<10	20	0.14	61	<10	5	91	4
P W1+50 S1+50	<0.2	1.37	10	130	<0.5	<5	0.49	<1	7	17	10	2.43	0.15	0.44	640	2	0.03	9	760	12	<5	4	<10	39	0.12	57	<10	5	71	7
P W2+00 S1+00	<0.2	1.75	5	140	<0.5	<5	0.12	<1	7	21	24	3.89	0.06	0.33	555	2	0.01	10	890	14	<5	3	<10	14	0.11	76	<10	3	88	3
P W2+00 S1+50	<0.2	1.51	5	120	<0.5	<5	0.38	<1	8	22	20	3.09	0.06	0.47	530	<2	0.01	11	500	16	<5	5	<10	26	0.13	62	<10	7	105	3
P W2+50 S1+00	<0.2	2.61	10	90	0.5	<5	0.12	<1	10	22	26	4.02	0.04	0.34	490	2	0.01	12	1360	18	<5	3	<10	12	0.12	69	<10	4	130	5
P W3+00 S1+00	<0.2	2.57	5	80	<0.5	<5	0.08	<1	6	23	14	4.36	0.04	0.29	230	2	0.01	9	1290	18	<5	4	<10	9	0.11	80	<10	3	64	6
P W3+00 S1+50	<0.2	2.20	10	160	0.5	<5	0.15	<1	9	22	43	3.51	0.05	0.43	330	2	0.01	13	420	18	<5	5	<10	16	0.11	65	<10	10	75	5
P W3+50 S1+00	<0.2	2.49	10	90	0.5	<5	0.12	<1	7	22	50	3.89	0.05	0.46	320	4	0.01	14	600	24	<5	5	<10	10	0.09	62	<10	9	153	6
P W4+00 S1+00	0.2	3.60	10	80	0.5	<5	0.07	<1	8	22	28	4.76	0.06	0.35	270	2	0.01	14	930	22	<5	4	<10	9	0.09	73	<10	5	137	8
P W4+00 S1+50	0.2	2.29	10	120	<0.5	<5	0.13	<1	8	22	27	3.90	0.05	0.34	340	2	0.01	12	710	22	<5	4	<10	12	0.13	72	<10	5	122	4
P W5+00 S1+00	<0.2	1.99	10	70	<0.5	<5	0.11	<1	7	20	26	3.29	0.04	0.32	270	2	0.01	10	600	16	<5	3	<10	10	0.10	59	<10	3	82	3
P W6+00 S1+00	<0.2	1.75	5	70	<0.5	<5	0.11	<1	5	16	14	3.05	0.04	0.24	235	2	0.01	7	540	20	<5	2	<10	11	0.10	57	<10	2	70	3
P W7+00 S1+00	<0.2	2.83	10	90	<0.5	<5	0.09	<1	9	22	17	3.41	0.04	0.36	310	2	0.01	15	770	16	<5	4	<10	11	0.09	58	<10	4	89	5

A .5 gm sample is digested with 10 ml 3:1 HCl/HNO3
at 95c for 2 hours and diluted to 25ml with D.I.H20.

Signed: _____

TSL Assayers Vancouver

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6
Tel: (604) 327-3436 Fax: (604) 327-3423

Report No : 9V0300 SJ
Date : Aug-31-99

Rupert Seel
Attention: Rupert Seel
Project:
Sample: soil

MULTI-ELEMENT ICP ANALYSIS

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
L2-1	<0.2	2.76	10	190	0.5	<5	0.23	<1	9	17	16	4.33	0.10	0.42	570	<2	0.02	11	2740	22	<5	5	<10	25	0.12	79	<10	6	158	5
L2-2	0.8	1.25	25	80	<0.5	<5	0.08	<1	6	24	38	6.02	0.06	0.20	430	<2	0.01	11	2650	46	5	2	<10	15	0.05	108	<10	2	101	4
L2-3	0.4	1.95	10	250	1.0	<5	0.33	1	9	18	29	3.98	0.08	0.33	1515	<2	0.02	9	1210	26	<5	4	<10	50	0.11	75	<10	13	154	3
L2-4	0.2	1.03	20	150	<0.5	<5	0.13	<1	10	23	23	4.48	0.09	0.25	1630	2	0.01	10	1250	34	5	3	<10	12	0.03	91	<10	2	189	3
L2-5	0.4	2.07	10	170	<0.5	<5	0.09	<1	9	21	13	4.58	0.06	0.30	745	<2	0.01	9	1870	20	<5	4	<10	14	0.15	90	<10	3	142	4
L2-6	<0.2	2.78	25	190	0.5	<5	0.12	<1	13	19	21	4.50	0.08	0.42	640	<2	0.01	13	1270	34	5	5	<10	21	0.09	81	<10	8	158	5
L2-7	0.4	1.92	10	170	<0.5	<5	0.15	<1	9	20	9	4.00	0.05	0.26	275	<2	0.02	7	580	24	<5	3	<10	17	0.28	90	<10	3	125	7
L2-175	<0.2	1.51	35	510	0.5	<5	0.59	<1	17	34	62	5.41	0.10	0.74	1945	2	0.02	23	1220	44	<5	9	<10	60	0.07	89	<10	14	335	4
L2-240	<0.2	1.57	60	280	0.5	<5	0.77	<1	15	21	40	5.89	0.08	0.54	1440	<2	0.02	15	1260	80	5	8	<10	33	0.07	101	<10	18	371	4
L2-330	<0.2	1.83	25	320	0.5	<5	0.84	3	12	25	28	4.06	0.08	0.41	1810	2	0.02	13	1290	42	5	5	<10	48	0.06	69	<10	26	434	3
L3-3	<0.2	2.20	15	190	<0.5	<5	0.26	<1	10	19	21	4.54	0.07	0.31	890	<2	0.02	10	2350	24	<5	3	<10	26	0.13	83	<10	5	133	5
L3-4	<0.2	1.51	25	210	0.5	<5	0.36	<1	9	25	36	5.22	0.06	0.37	1360	2	0.01	13	880	36	5	4	<10	22	0.02	87	<10	6	209	3
L3-5	0.4	1.97	30	280	0.5	<5	0.72	2	11	21	49	5.23	0.06	0.35	1410	<2	0.01	13	1920	62	<5	2	10	47	0.03	87	<10	16	217	3
L3-6	<0.2	1.64	40	350	0.5	<5	0.28	<1	11	18	20	4.97	0.05	0.30	1315	<2	0.01	9	950	56	<5	3	<10	22	0.04	83	<10	5	200	3
L3-7	1.0	3.74	15	120	0.5	<5	0.09	<1	6	22	8	5.93	0.04	0.26	250	2	0.01	6	1530	28	5	3	<10	11	0.14	96	<10	2	101	8
B/L P 1+00	<0.2	1.98	15	60	<0.5	<5	0.07	<1	9	18	13	3.92	0.05	0.29	400	<2	0.01	11	930	14	<5	4	<10	7	0.11	67	<10	3	90	5
B/L P 1+25	<0.2	2.63	5	80	<0.5	<5	0.09	<1	10	24	13	3.38	0.06	0.35	405	<2	0.01	15	1350	14	<5	4	<10	10	0.16	65	<10	4	137	10
B/L P 1+50	<0.2	2.26	10	100	<0.5	<5	0.12	<1	9	24	16	3.46	0.06	0.39	410	<2	0.01	13	950	14	<5	4	<10	11	0.15	71	<10	5	100	8
B/L P 2+00	<0.2	1.00	5	60	<0.5	<5	0.20	<1	5	18	7	2.93	0.06	0.25	310	2	0.01	7	580	14	<5	3	<10	14	0.14	73	<10	2	58	5
B/L P 2+50	<0.2	1.43	10	80	<0.5	<5	0.08	<1	6	19	12	3.64	0.04	0.19	340	2	0.01	7	690	14	<5	3	<10	9	0.10	81	<10	2	62	3
B/L P 3+00	0.2	2.36	10	120	<0.5	<5	0.10	<1	9	24	26	4.49	0.06	0.42	345	4	0.01	11	520	28	<5	4	<10	13	0.19	88	<10	3	114	7
B/L P 3+50	<0.2	1.73	10	100	<0.5	<5	0.13	<1	6	21	12	3.64	0.04	0.31	300	2	0.01	10	500	14	<5	3	<10	13	0.13	72	<10	3	74	4
P S 0+30 W 1+00	<0.2	0.74	<5	90	<0.5	<5	0.26	<1	2	6	<1	1.03	0.04	0.13	205	<2	0.01	4	250	4	<5	2	<10	16	0.02	24	<10	1	36	1
P S 0+50 W 1+60	<0.2	2.16	5	100	<0.5	<5	0.18	<1	8	22	21	3.59	0.05	0.37	380	2	0.01	11	780	14	<5	4	<10	18	0.15	70	<10	5	69	5
P S 0+50 W 2+00	0.2	2.39	20	120	0.5	<5	0.13	<1	10	24	25	4.72	0.06	0.43	375	2	0.01	14	930	20	<5	5	<10	14	0.15	85	<10	5	87	7
P S 0+50 W 2+50	0.4	2.11	10	130	0.5	<5	0.21	<1	11	24	29	4.15	0.05	0.46	1330	4	0.02	14	570	22	<5	4	<10	24	0.13	73	<10	6	132	3
P S 0+50 W 3+00	0.2	1.97	10	70	<0.5	<5	0.11	<1	8	25	19	3.95	0.04	0.30	365	2	0.01	10	830	20	<5	3	<10	11	0.16	82	<10	3	70	5
P S 0+50 W 3+50	<0.2	2.37	10	110	<0.5	<5	0.09	<1	9	24	26	3.54	0.05	0.42	325	2	0.01	14	700	16	<5	4	<10	11	0.13	68	<10	4	88	10
P N 0+50 W 1+00	0.2	2.55	10	100	0.5	<5	0.09	<1	7	23	20	3.47	0.05	0.30	275	<2	0.01	12	980	18	<5	4	<10	11	0.12	68	<10	3	57	6
P N 0+70 W 1+00	<0.2	2.21	10	80	<0.5	<5	0.12	<1	7	23	13	4.34	0.04	0.33	295	2	0.01	9	2060	16	<5	3	<10	15	0.14	84	<10	3	88	7

A .5 gm sample is digested with 10 ml 3:1 HCl/HNO3
at 95c for 2 hours and diluted to 25ml with D.I.H20.

BH

Signed: _____

TSL Assayers Vancouver
8282 Sherbrooke St., Vancouver, B.C., V5X 4R6
Tel: (604) 327-3436 Fax: (604) 327-3423

Rupert Seel
Attention: Rupert Seel
Project:
Sample: rock

Report No : 9V0300 RJ
Date : Aug-31-99

MULTI-ELEMENT ICP ANALYSIS

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
99-1	<0.2	1.94	<5	260	1.5	<5	1.60	<1	29	25	131	7.11	0.13	1.07	880	<2	0.07	39	4860	20	<5	11	<10	181	0.34	201	<10	31	143	10
99-2	<0.2	0.35	<5	110	<0.5	<5	0.09	<1	3	57	<1	1.64	0.18	0.12	685	<2	0.06	2	310	6	<5	4	<10	8	0.16	8	<10	17	68	69
99-3	<0.2	0.28	10	90	<0.5	<5	0.50	<1	8	119	13	2.71	0.02	0.20	880	<2	0.04	7	340	12	<5	8	<10	9	<0.01	38	<10	11	30	4
P N 0+25 W 1+50	<0.2	0.46	475	30	<0.5	<5	0.02	<1	4	43	10	5.09	0.14	0.02	20	<2	0.01	11	350	30	95	2	<10	10	<0.01	17	<10	4	64	4

A .5 gm sample is digested with 10 ml 3:1 HCl/HNO3
at 95c for 2 hours and diluted to 25ml with D.I.H20.

Signed:_____

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TSL Assayers Vancouver
8282 Sherbrooke St., Vancouver, B.C., V5X 4R6
Tel: (604) 327-3436 Fax: (604) 327-3423

Rupert Seel
Attention: Rupert Seel
Project:
Sample: soil

Report No : 9V0372 SJ
Date : Oct-15-99

MULTI-ELEMENT ICP ANALYSIS

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
S1300 E100	0.2	1.40	30	80	<0.5	<5	0.04	<1	6	16	31	4.09	0.06	0.13	720	<2	0.01	10	2660	30	<5	1	<10	9	0.03	69	<10	6	109	4
S1300 E50	0.2	3.14	25	160	0.5	5	0.11	<1	7	14	16	3.72	0.07	0.43	445	<2	0.01	13	980	12	5	4	<10	19	0.05	64	<10	8	137	6
S1300 W500	<0.2	2.32	40	110	<0.5	<5	0.15	<1	9	15	15	3.98	0.07	0.36	635	<2	0.01	11	1210	24	5	3	<10	22	0.05	70	<10	9	111	5
S1300 W600	0.2	1.39	30	140	<0.5	<5	0.04	<1	7	16	18	4.96	0.04	0.20	695	<2	0.01	9	1180	22	5	2	<10	11	0.08	84	<10	2	115	4
S1300 W700	<0.2	2.69	35	140	<0.5	<5	0.12	<1	7	16	14	3.72	0.05	0.37	410	<2	0.01	12	1170	12	5	4	<10	22	0.06	72	<10	7	101	5
S1350 E100	<0.2	1.53	10	90	<0.5	<5	0.04	<1	6	15	11	4.38	0.07	0.25	320	<2	0.01	14	1930	22	<5	1	<10	8	0.07	75	<10	5	80	5
S1350 E50	<0.2	2.32	20	180	<0.5	<5	0.14	<1	8	17	15	3.93	0.07	0.38	485	<2	0.01	12	960	14	<5	3	<10	22	0.07	71	<10	6	122	4
S1350 B/L	<0.2	2.33	10	110	<0.5	<5	0.11	<1	9	13	14	3.24	0.06	0.27	920	<2	0.01	11	1540	16	<5	2	<10	12	0.05	58	<10	5	88	5
S1350 W50	<0.2	2.27	15	160	0.5	<5	0.21	<1	6	17	19	4.02	0.06	0.29	370	<2	0.01	10	880	14	<5	2	<10	30	0.08	67	<10	11	92	4
S1350 W100	<0.2	2.05	45	200	0.5	<5	0.33	<1	10	17	23	4.91	0.07	0.40	1220	<2	0.01	11	2680	36	5	3	<10	26	0.04	79	<10	5	224	4
S1350 W150	<0.2	1.53	95	210	0.5	5	0.26	<1	13	16	32	5.61	0.04	0.36	1770	<2	0.01	11	1160	70	<5	3	<10	18	0.02	81	<10	6	240	4
S1350 W200	0.2	1.69	50	270	0.5	<5	0.21	<1	5	16	16	4.09	0.05	0.27	355	<2	0.01	10	970	40	<5	2	<10	27	0.02	68	<10	11	290	3
S1350 W250	0.2	2.25	110	130	<0.5	5	0.04	<1	9	21	21	6.42	0.05	0.29	405	<2	0.01	12	1380	76	5	5	<10	10	0.05	90	<10	3	237	11
S1350 W300	0.4	2.06	10	110	<0.5	<5	0.06	<1	7	23	12	4.31	0.05	0.29	265	<2	0.01	9	1730	20	5	2	<10	8	0.18	81	<10	2	109	9
S1350 W350	0.4	3.33	25	200	<0.5	<5	0.08	<1	7	13	12	4.02	0.05	0.35	240	<2	0.01	11	820	20	5	4	<10	17	0.05	63	<10	3	129	6
S1350 W400	0.2	2.19	20	90	<0.5	<5	0.06	<1	9	22	12	5.80	0.05	0.30	625	<2	0.01	9	1920	18	5	2	<10	9	0.21	96	<10	2	104	6
S1350 W450	<0.2	1.98	25	150	<0.5	<5	0.17	<1	6	16	16	4.16	0.06	0.33	410	<2	0.01	9	3360	24	5	2	<10	19	0.06	68	<10	2	121	3
S1350 W500	0.2	2.71	30	130	<0.5	<5	0.20	<1	6	15	21	4.44	0.05	0.26	475	<2	0.01	10	1390	20	<5	2	<10	30	0.05	70	<10	5	115	5
S1350 W550	0.4	2.39	35	180	<0.5	<5	0.12	<1	9	16	26	4.09	0.07	0.29	1570	<2	0.01	10	1490	22	5	2	<10	29	0.05	75	<10	8	139	5
S1350 W600	0.4	2.27	25	240	0.5	<5	0.39	<1	9	16	24	3.58	0.06	0.37	995	2	0.01	10	1510	30	5	3	<10	60	0.04	67	<10	19	131	5
S1350 W650	0.2	2.44	35	150	<0.5	5	0.09	<1	8	17	17	4.97	0.06	0.36	680	2	0.01	10	2040	24	5	4	<10	17	0.07	83	<10	4	167	4
S1350 W700	<0.2	2.31	40	160	<0.5	<5	0.14	<1	7	17	16	5.03	0.06	0.40	420	2	0.01	11	900	24	5	4	<10	33	0.05	81	<10	4	134	4
S1350 W750	0.2	3.18	40	130	<0.5	<5	0.08	<1	7	18	13	4.65	0.04	0.31	315	2	0.01	10	960	14	5	3	<10	15	0.08	79	<10	3	141	6
S1350 W800	<0.2	2.05	50	190	<0.5	<5	0.34	<1	7	15	14	3.77	0.05	0.30	445	2	0.01	9	1170	20	10	3	<10	52	0.05	69	<10	8	83	5
S1400 E100	0.6	2.53	25	120	<0.5	<5	0.08	<1	8	22	20	4.12	0.05	0.28	745	2	0.01	9	1190	22	5	2	<10	15	0.09	72	<10	4	120	5
S1400 E50	0.4	2.76	25	160	0.5	<5	0.13	<1	8	11	16	3.13	0.06	0.29	730	<2	0.01	10	1650	20	5	2	<10	26	0.04	49	<10	6	91	9
S1400 W0	0.2	1.75	40	200	0.5	<5	0.28	<1	8	17	22	4.39	0.06	0.33	675	<2	0.01	9	850	20	5	3	<10	45	0.07	79	<10	16	135	4
S1400 W50	<0.2	2.49	35	220	<0.5	<5	0.21	<1	11	19	15	4.95	0.05	0.29	715	2	0.01	9	5850	24	5	3	<10	20	0.08	85	<10	4	150	7
S1400 W100	<0.2	1.68	65	260	0.5	5	0.54	<1	15	16	31	5.21	0.06	0.38	1870	<2	0.01	12	1220	78	5	3	<10	27	0.03	80	<10	12	300	5
S1400 W150	0.2	2.53	145	220	0.5	5	0.10	<1	9	20	25	5.47	0.06	0.33	510	2	0.01	12	1510	84	5	5	<10	25	0.04	84	<10	4	388	5

A .5 gm sample is digested with 10 ml 3:1 HCl/HNO3
at 95c for 2 hours and diluted to 25ml with D.I.H2O.

Signed:

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TSL Assayers Vancouver

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6
Tel: (604) 327-3436 Fax: (604) 327-3423

Rupert Seel
Attention: Rupert Seel
Project:
Sample: soil

Report No : 9V0372 SJ
Date : Oct-15-99

MULTI-ELEMENT ICP ANALYSIS

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
S800 E50	2.2	3.07	10	100	<0.5	<5	0.09	<1	9	15	63	6.70	0.10	1.36	940	<2	0.01	10	1870	20	<5	8	<10	11	0.17	170	<10	3	128	5
S1150 E50	1.0	1.94	20	110	<0.5	<5	0.13	1	7	14	29	3.70	0.08	0.22	1000	2	0.01	10	1950	20	<5	1	<10	18	0.04	60	<10	4	115	4
S1150 B/L	1.8	1.83	35	110	<0.5	<5	0.04	<1	7	15	29	4.62	0.05	0.23	545	<2	0.01	9	730	34	5	4	<10	13	0.03	77	<10	3	145	4
S1150 W50	1.6	1.31	15	70	<0.5	<5	0.02	<1	6	13	11	4.92	0.04	0.15	380	<2	0.01	6	1220	34	<5	2	<10	7	0.10	88	<10	1	82	4
S1150 W100	0.4	1.78	10	200	0.5	<5	0.22	<1	7	14	17	3.05	0.06	0.25	590	<2	0.01	7	600	32	<5	3	<10	40	0.09	62	<10	15	127	3
S1150 W150	0.2	1.08	35	410	0.5	<5	0.50	<1	14	32	43	4.56	0.10	0.65	1555	4	0.01	21	1410	40	<5	7	<10	47	0.03	73	<10	11	303	4
S1150 W200	0.2	1.51	15	120	<0.5	<5	0.06	<1	6	16	18	3.81	0.06	0.23	205	2	0.01	6	1130	28	<5	3	<10	15	0.16	82	<10	3	82	7
S1150 W250	<0.2	1.74	75	120	<0.5	<5	0.02	<1	7	15	20	7.76	0.04	0.22	460	2	0.01	9	1140	52	5	3	<10	11	0.07	120	<10	2	143	7
S1150 W335	0.4	1.23	30	110	<0.5	<5	0.04	<1	7	14	14	4.38	0.05	0.25	380	<2	0.01	9	1200	28	5	2	<10	11	0.06	77	<10	2	130	4
S1200 E150	1.2	0.99	40	250	0.5	<5	0.53	1	17	35	55	5.94	0.11	0.83	2830	8	0.01	27	930	78	5	11	<10	27	0.01	66	<10	14	473	5
S1200 E100	0.6	1.24	20	70	<0.5	<5	0.06	<1	6	17	28	4.28	0.07	0.21	430	<2	<0.01	12	2010	30	<5	1	<10	10	0.05	79	<10	4	94	4
S1200 E50	1.0	2.36	15	80	<0.5	<5	0.07	<1	6	17	32	3.78	0.06	0.14	300	<2	0.01	8	2800	26	<5	1	<10	12	0.06	63	<10	4	79	4
S1200 B/L	0.2	1.67	15	110	<0.5	<5	0.06	<1	6	14	12	3.67	0.07	0.24	325	2	0.01	8	1080	14	<5	3	<10	14	0.08	71	<10	2	110	6
S1200 W50	0.2	1.73	10	130	<0.5	<5	0.07	<1	7	17	12	4.46	0.06	0.23	290	<2	0.01	9	2550	22	<5	3	<10	13	0.12	85	<10	3	115	6
S1200 W100	0.2	2.12	10	150	<0.5	<5	0.09	1	5	14	9	3.31	0.04	0.25	215	<2	0.01	7	1930	28	<5	2	<10	18	0.08	63	<10	3	119	4
S1200 W150	<0.2	2.82	35	120	<0.5	<5	0.04	<1	9	16	16	5.52	0.05	0.27	485	<2	0.01	9	1870	32	<5	3	<10	13	0.06	76	<10	2	130	8
S1200 W200	0.2	2.13	35	140	<0.5	<5	0.11	<1	8	21	13	5.86	0.05	0.32	370	2	0.01	9	3470	38	<5	3	<10	17	0.09	102	<10	3	139	7
S1200 W250	<0.2	2.50	35	120	<0.5	<5	0.08	<1	7	15	16	4.72	0.04	0.31	260	<2	0.01	11	1640	32	5	4	<10	12	0.05	73	<10	2	115	7
S1200 W500	<0.2	2.77	25	160	<0.5	<5	0.12	<1	7	14	17	4.11	0.04	0.37	285	<2	0.01	10	1020	20	5	4	<10	21	0.04	64	<10	4	111	5
S1200 W600	<0.2	1.64	30	170	<0.5	<5	0.23	<1	10	16	18	3.71	0.07	0.38	890	2	0.01	11	1230	22	5	3	<10	37	0.05	70	<10	13	121	5
S1210 W700	0.2	2.08	30	170	<0.5	<5	0.12	<1	8	16	24	4.12	0.06	0.30	385	2	0.01	10	2430	18	<5	3	<10	21	0.09	76	<10	3	114	5
S1250 E100	0.2	4.45	20	50	<0.5	<5	0.03	<1	6	23	16	4.17	0.04	0.16	655	<2	0.01	6	2050	22	<5	3	<10	9	0.05	61	<10	10	77	12
S1250 W450	<0.2	2.07	15	220	<0.5	<5	0.27	<1	8	14	11	3.39	0.07	0.44	560	2	0.01	11	1210	18	<5	4	<10	40	0.06	54	<10	10	112	4
S1250 W500	0.2	1.70	30	150	<0.5	<5	0.23	<1	6	14	22	4.37	0.06	0.33	445	<2	0.01	9	1230	24	<5	2	<10	40	0.04	72	<10	12	93	4
S1250 W550	<0.2	2.18	30	160	0.5	<5	0.21	<1	7	17	16	4.52	0.06	0.46	450	<2	0.01	13	910	22	5	4	<10	31	0.05	72	<10	12	105	5
S1250 W600	0.4	2.05	30	150	<0.5	<5	0.18	<1	6	16	35	3.57	0.05	0.32	340	<2	0.01	11	710	18	5	2	<10	29	0.06	63	<10	12	95	3
S1250 W650	<0.2	1.54	20	150	<0.5	<5	0.24	<1	6	12	14	3.03	0.05	0.30	420	<2	0.01	8	1040	14	5	2	<10	26	0.04	58	<10	8	81	4
S1250 W700	<0.2	1.78	40	140	<0.5	<5	0.12	<1	5	17	17	5.43	0.04	0.24	260	<2	0.01	9	4750	26	5	1	<10	17	0.05	89	<10	2	74	4
S1250 W750	0.2	1.55	35	130	<0.5	<5	0.12	<1	5	17	22	5.13	0.05	0.25	310	<2	0.01	10	4690	22	<5	1	<10	19	0.06	84	<10	2	73	4
S1250 W800	0.2	1.60	45	140	<0.5	<5	0.21	<1	8	14	17	4.16	0.06	0.28	910	<2	0.01	9	1820	18	5	3	<10	17	0.06	78	<10	3	155	3

A .5 gm sample is digested with 10 ml 3:1 HCl/HNO3 at 95c for 2 hours and diluted to 25ml with D.I.H20.

Signed:

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TSL Assayers Vancouver

8282 Sherbrooke St., Vancouver, B.C., V5X 4R6
Tel: (604) 327-3436 Fax: (604) 327-3423

Rupert Seel
Attention: Rupert Seel
Project:
Sample: soil

Report No : 9V0372 SJ
Date : Oct-15-99

MULTI-ELEMENT ICP ANALYSIS

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
A 0+00	0.4	2.66	15	50	<0.5	<5	0.05	<1	6	25	11	4.57	0.02	0.35	315	2	0.01	7	860	22	5	3	<10	7	0.10	84	<10	1	82	5
A 1+00	<0.2	2.09	10	50	<0.5	<5	0.05	<1	4	19	8	4.34	0.02	0.27	420	<2	0.01	7	1960	18	5	2	<10	7	0.06	77	<10	1	57	5
A 1+50	0.2	2.38	60	60	<0.5	<5	0.19	<1	7	26	14	5.15	0.05	0.46	370	2	0.01	11	2530	26	5	3	<10	13	0.06	76	<10	2	116	5
A 2+00	0.2	2.29	20	80	<0.5	<5	0.06	<1	8	27	20	4.47	0.03	0.35	425	2	0.01	11	530	20	<5	3	<10	7	0.10	81	<10	2	100	4
A 2+50	0.4	1.85	15	90	<0.5	<5	0.09	<1	5	19	22	4.48	0.04	0.32	215	<2	0.01	7	590	22	5	2	<10	14	0.08	69	<10	9	57	4
A 3+00	1.0	1.53	10	70	0.5	<5	0.05	<1	2	13	53	1.12	0.03	0.15	70	2	0.01	5	1150	18	5	1	<10	13	0.03	22	<10	18	34	1
B 0+00	0.4	2.76	20	50	<0.5	<5	0.05	<1	8	37	13	8.05	0.03	0.41	310	2	0.01	12	4700	36	5	3	<10	6	0.15	139	<10	2	72	7
B 1+00	0.2	1.37	25	50	<0.5	<5	0.07	<1	5	16	31	3.66	0.03	0.35	250	4	0.01	8	540	16	5	2	<10	13	0.04	51	<10	7	94	3
B 1+50	<0.2	2.43	30	50	<0.5	<5	0.10	<1	7	20	31	4.41	0.04	0.40	335	4	0.01	8	720	22	5	3	<10	12	0.05	63	<10	10	96	3
B 2+00	<0.2	2.08	30	70	<0.5	5	0.07	<1	6	20	31	4.68	0.04	0.41	345	2	0.01	9	670	22	5	3	<10	12	0.04	67	<10	7	99	4
B 2+50	0.2	1.56	25	70	<0.5	<5	0.08	<1	5	19	23	4.73	0.03	0.32	275	2	0.01	7	510	18	5	2	<10	14	0.05	76	<10	2	68	3
B 3+00	0.8	1.56	20	70	<0.5	<5	0.08	<1	6	20	65	4.22	0.04	0.29	360	2	0.01	10	690	38	5	3	<10	15	0.07	70	<10	9	107	3
B 3+50	<0.2	1.71	25	70	<0.5	<5	0.13	<1	7	21	31	4.88	0.04	0.47	365	2	0.01	11	390	14	<5	4	<10	18	0.06	80	<10	7	118	4
C 0+00	<0.2	2.38	25	70	<0.5	<5	0.08	<1	8	25	16	6.24	0.04	0.37	790	<2	0.01	10	4380	18	<5	3	<10	8	0.06	91	<10	2	138	5
C 1+00	0.2	1.66	25	100	<0.5	<5	0.06	1	8	23	28	6.06	0.04	0.19	870	<2	0.01	9	890	28	<5	3	<10	10	0.13	103	<10	7	103	5
C 1+50	0.4	5.48	15	60	<0.5	<5	0.08	<1	6	26	23	4.21	0.03	0.18	495	2	0.01	8	1670	14	<5	3	<10	8	0.10	46	<10	6	75	7
C 2+60	<0.2	1.57	25	60	<0.5	<5	0.11	<1	6	16	24	4.39	0.04	0.31	385	<2	0.01	10	930	22	<5	3	<10	15	0.04	74	<10	4	105	4
C 3+00	<0.2	1.32	30	70	<0.5	<5	0.14	<1	6	17	22	4.12	0.03	0.32	305	2	0.01	9	420	18	<5	2	<10	19	0.04	81	<10	5	93	3
C 3+50	<0.2	1.37	20	140	<0.5	<5	0.37	<1	11	20	31	3.80	0.04	0.42	1275	<2	0.01	11	620	18	<5	3	<10	21	0.05	65	<10	8	162	4
C 4+50	0.6	1.74	35	100	<0.5	<5	0.56	<1	10	18	32	5.08	0.04	0.32	915	2	0.01	9	1390	32	<5	2	<10	31	0.04	75	<10	14	97	4
D 0+80	0.2	1.56	25	90	<0.5	5	0.09	<1	10	23	15	5.80	0.07	0.34	1180	<2	0.01	11	3290	20	<5	3	<10	10	0.07	99	<10	2	197	4
D 1+50	0.4	1.87	20	90	<0.5	<5	0.07	<1	6	20	61	4.44	0.04	0.28	435	2	0.01	8	860	24	<5	3	<10	13	0.08	74	<10	7	98	3
D 2+00	0.2	1.54	25	100	<0.5	<5	0.06	<1	6	17	19	4.33	0.05	0.22	380	<2	0.01	9	400	18	<5	3	<10	10	0.05	79	<10	2	79	5
D 2+50	0.2	1.55	40	80	<0.5	<5	0.07	<1	6	20	23	5.14	0.03	0.29	395	<2	0.01	9	1240	26	<5	2	<10	11	0.04	83	<10	4	87	4
D 3+00	0.8	3.21	30	120	<0.5	<5	0.14	<1	10	18	32	4.08	0.04	0.35	780	2	0.01	12	1150	22	5	4	<10	20	0.04	59	<10	7	119	5
D 3+50	0.2	0.74	25	130	<0.5	<5	0.34	<1	5	18	41	4.26	0.05	0.12	430	<2	0.01	10	1880	34	<5	1	<10	21	0.05	85	<10	1	88	3
D 4+00	0.2	4.39	120	90	<0.5	5	0.09	<1	14	20	28	4.35	0.05	0.32	1120	<2	0.01	16	1280	32	5	5	<10	12	0.04	62	<10	8	152	9
D 4+50	<0.2	2.47	30	90	<0.5	<5	0.08	<1	9	18	32	3.61	0.05	0.35	655	<2	0.01	11	550	22	<5	4	<10	11	0.04	59	<10	5	109	5
D 5+00	<0.2	1.33	25	130	<0.5	5	0.18	<1	5	15	24	4.37	0.03	0.20	200	2	0.01	8	340	28	<5	2	<10	14	0.04	80	<10	2	73	3
X 0+30	0.4	0.39	45	140	0.5	<5	0.39	1	12	4	49	4.56	0.08	0.18	1975	6	0.01	12	920	60	5	7	<10	15	0.01	29	<10	11	412	4

A .5 gm sample is digested with 10 ml 3:1 HCl/HNO3 at 95c for 2 hours and diluted to 25ml with D.I.H20.

Signed:

52

TSL Assayers Vancouver
8282 Sherbrooke St., Vancouver, B.C., V5X 4R6
Tel: (604) 327-3436 Fax: (604) 327-3423

Rupert Seel
Attention: Rupert Seel
Project:
Sample: soil

Report No : 9V0372 SJ
Date : Oct-15-99

MULTI-ELEMENT ICP ANALYSIS

Aqua Regia Digestion

Sample Number	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
X 1+00	<0.2	1.79	50	200	0.5	<5	0.79	<1	12	9	13	3.55	0.07	0.59	845	2	0.01	12	2180	22	20	4	<10	60	0.05	68	<10	7	161	22
X 2+00	<0.2	1.93	15	210	<0.5	<5	0.73	<1	10	9	10	3.15	0.15	0.59	2260	<2	0.01	9	2920	10	10	2	<10	62	0.08	72	<10	3	175	5
X 3+00	<0.2	0.85	35	160	0.5	<5	0.15	<1	6	6	22	3.74	0.05	0.14	1120	6	0.01	8	1080	38	5	4	<10	12	0.01	35	<10	6	188	3
X 4+00	<0.2	3.11	50	80	<0.5	<5	0.21	<1	10	11	12	3.97	0.05	0.44	340	2	0.01	10	3140	16	15	4	<10	17	0.09	86	<10	5	141	23
X 5+00	<0.2	2.89	45	90	<0.5	<5	0.29	<1	12	9	11	4.02	0.06	0.54	545	<2	0.01	10	2440	14	20	5	<10	38	0.09	83	<10	6	143	30
X 6+50	<0.2	1.35	60	240	1.0	<5	1.27	<1	13	8	15	3.24	0.14	0.87	860	2	0.03	15	2290	10	20	6	<10	175	0.05	61	<10	23	68	11
99-7	<0.2	1.06	10	110	<0.5	<5	0.36	1	6	19	12	2.61	0.06	0.41	540	<2	0.02	11	780	48	<5	3	<10	24	0.04	49	<10	7	219	3

A .5 gm sample is digested with 10 ml 3:1 HCl/HNO3 at 95c for 2 hours and diluted to 25ml with D.I.H20.

Signed:

53