

ARIS SUMMARY SHEET

District Geologist, Kamloops

Off Confidential: 89.04.06

ASSESSMENT REPORT 17592

MINING DIVISION: Kamloops

PROPERTY: SBS
LOCATION: LAT 51 03 19 LONG 119 46 13
UTM 11 5659405 305851
NTS 082M04W

CLAIM(S): SBS 1-5
OPERATOR(S): Minnova
AUTHOR(S): Pirie, I.D.;Goutier, F.
REPORT YEAR: 1988, 34 Pages

GEOLOGICAL

SUMMARY:

The property is underlain by northwest striking and northeast dipping metavolcanics and sediments of the Devono-Mississippian Eagle Bay Formation. No known mineralization occurs on the claims, however, the Homestake barite-silver deposit occurs 3 kilometres to the northwest and the Steep gold skarn area occurs immediately to the south. Rocks range from mafic to felsic volcanics and sediments, all of which show a strong penetrative foliation.

WORK DONE:

Geological, Geophysical
EMGR 20.0 km; HLEM
Map(s) - 2; Scale(s) - 1:2500
GEOL 200.0 ha
Map(s) - 2; Scale(s) - 1:7500, 1:2500
LINE 29.8 km
ROCK 220 sample(s); ME
Map(s) - 12; Scale(s) - 1:7500, 1:2500

LOG NO: 0720

RD.

ACTION:

FILE NO:

GEOLOGY, GEOCHEMISTRY AND GEOPHYSICS

of the SBS Property

Adams Lake, BC

FILMED

NIS 82M/4W

Lat 51°15'N Long 119°46'W

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,592

July 7, 1988

Ian D. Pirie
Francoise Goutier
Minova Inc.
4th Floor, 311 Water Street
Vancouver, BC

TABLE OF CONTENTS

	<u>Page #</u>
SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS.....	1
INTRODUCTION.....	1
General.....	1
Location & Access.....	1
Physiography.....	2
Property & Ownership.....	2
History.....	3
Summary of Work Done.....	3
RESULTS.....	4
Geology.....	4
Regional Setting.....	4
PROPERTY GEOLOGY.....	4
Property Geology: SBS-Grid.....	5
Description of Rock Units.....	6
Chloritized Intermediate volcanic group.....	6
Intermediate to Felsic volcanic group.....	7
Intrusive group.....	8
LITHOGEOCHEMISTRY.....	9
GEOPHYSICS.....	11
PROPERTY GEOLOGY SBS-SKARN.....	11
LITHOGEOCHEMISTRY - SKARN ZONE.....	12
CONCLUSIONS AND RECOMMENDATIONS.....	13
BIBLIOGRAPHY	
ITEMIZED COST STATEMENT	
AUTHOR'S QUALIFICATIONS	

LIST OF TABLES

Page #

TABLE 1.....2
TABLE 2.....9.1

LIST OF FIGURES

FIGURE 1: Location.....2.1
FIGURE 2: Claim Configuration and Grid Location.....3.1

MAPS

(in pocket)

1. Geology (Grid Area) - 1:2500
2. Lithochemistry - SiO₂, TiO₂, CaO, MgO
3. Lithochemistry - Na₂O, K₂O
4. Lithochemistry - Ba, Cu, Pb, Zn
5. Lithochemistry - Au, Ag
6. Lithochemistry - As, Sb
7. Lithochemistry - Fe₂O₃, MnO₂, Al₂O₃, Zn
8. Max Min II - 444 Hz
9. Max Min II - 1777 Hz
10. Geology - Skarn Area
11. Lithochemistry - SiO₂, TiO₂, CaO, MgO
12. Lithochemistry - Na₂O, K₂O
13. Lithochemistry - Ba, Cu, Pb, Zn
14. Lithochemistry - Au, Ag
15. Lithochemistry - As, Sb
16. Lithochemistry - Fe₂O₃, MnO₂, Al₂O₃, Zn

SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS

Detailed mapping, sampling and geophysics in an area of the SBS property indicated by reconnaissance to be prospected for volcanogenic massive sulphides has confirmed its anomalous nature; however, further work will be required to establish drill targets.

Reconnaissance to locate a skarn zone projected from a neighbouring property has confirmed its presence and location. Detailed work can now be planned.

INTRODUCTION

General

Minnova Incorporated (formerly Corporation Falconbridge Copper) is the registered owner of 108 claim units (SBS 1 to 6) in the Skwaam Bay, Adams Lake area of the Kamloops mining division, British Columbia. The claims are divided into two groups: SKWAAM West and SKWAAM East.

This report presents the results of detailed geological mapping and lithogeochemical sampling at a scale of 1:2500 on a 30km line grid, and reconnaissance geological mapping and lithogeochemical sampling. All work was carried out during October 1987.

Location and Access

The claims are located on the south side of Skwaam Bay, 30km east of Louis Creek and approximately 75km northeast of Kamloops (Fig. 1). Access is by way of the Agate Bay road from Highway 5 at Louis Creek or by the Adams Lake mainline from the town of Adams Lake. Several logging and skidder roads facilitate access to the property.

Physiography

The property lies on the western side of the Adams Plateau which consists of high rolling plateau country incised by locally steep, drift filled valleys. Elevations range from less than 500m at lake level to over 1500m up on the plateau. Much of the SBS property lies at around 1500m but drops off steeply north and east into Adams Lake.

Fairly dense forest cover occurs across the area with logging currently active right on the property.

The climate is moderate with temperatures ranging from -25 C to +30 C. Precipitation is low to moderate with a May to November snowfree period.

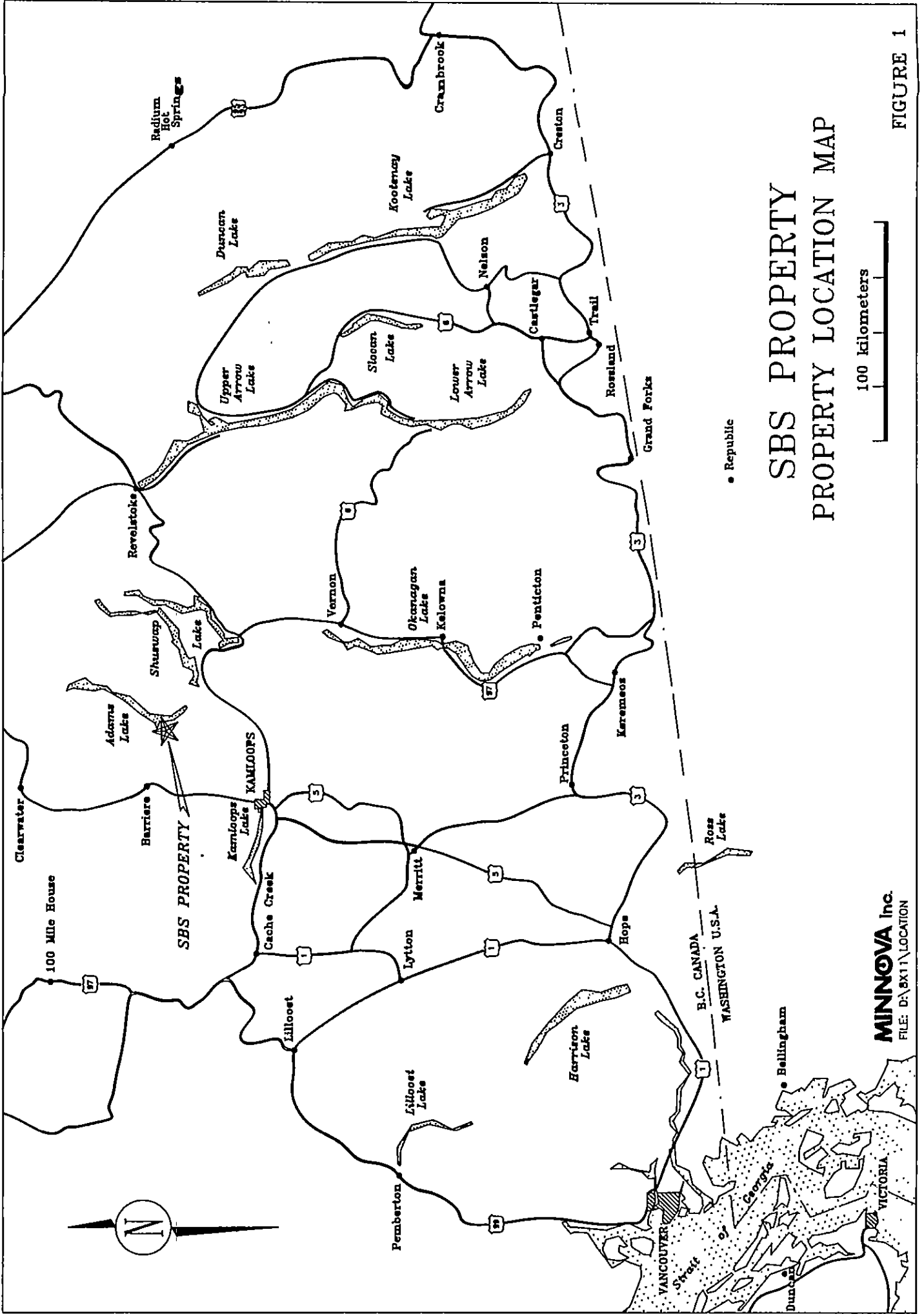
Property and Ownership

Figure 2 shows the configuration of the SBS claims and the location of the 1987 30km line grid. Table 1 summarizes the pertinent claim data. All claims are 100% owned and operated by Minnova Inc.

TABLE 1

<u>Name</u>	<u>Record #</u>	<u>Units</u>	<u>Month</u>	<u>Group</u>
SBS 1	6593	20	April	SKWAAM West
SBS 2	6594	12	April	SKWAAM East
SBS 3	6595	16	April	SKWAAM West
SBS 4	6596	20	April	SKWAAM East
SBS 5	6597	20	April	SKWAAM West
SBS 6	6598	20	April	SKWAAM East

FIGURE 1



SBS PROPERTY
PROPERTY LOCATION MAP

• Republic

100 kilometers

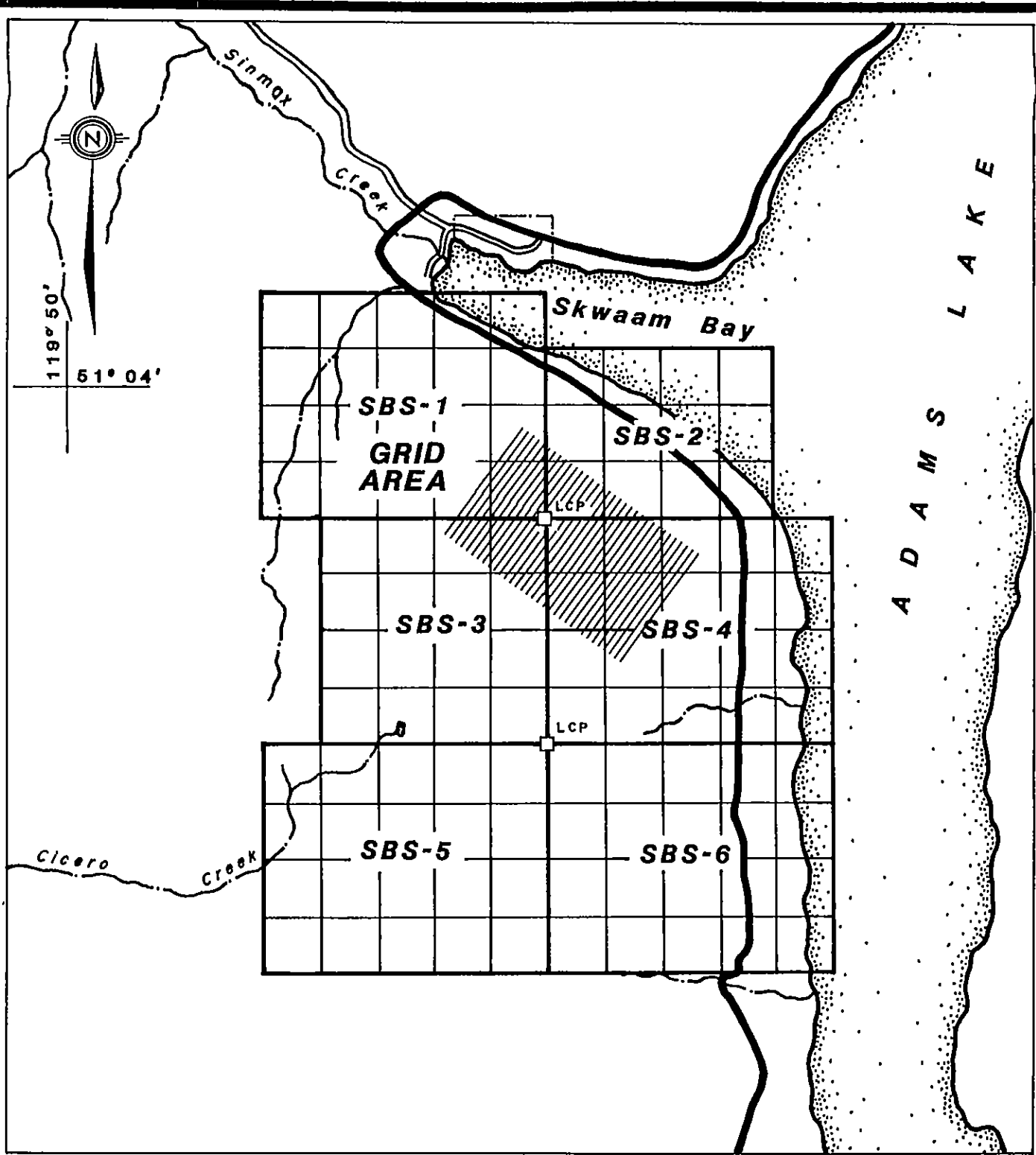
MINNOVA Inc.
 FILE: D:\9X11\LOCATION

History

The SBS claims were staked in April 1986. Prior to Minnova's acquisition of the property, exploration was restricted to a soil survey carried out by Craigmont mines in 1977 (AR #6890). Work on the property in 1986 by Minnova included reconnaissance mapping and lithochemical sampling along existing roads.

Summary of Work Done

Line cutting	30km line grid	Grid extends from L92+50N to 111+00N and from L78E to L57E (see Fig. 2 for location).
Geophysics (Max Min II)	30 km line grid	Conducted by MWH using two frequencies - 444Hz and 1777Hz.
Geochemical	16 man-days sampling 220 rock samples	Pace and compass traversing of roads and grid area on the property. Analysis for Cu Pb Zn Ag Au SiO ₂ TiO ₂ CaO MgO Na ₂ O K ₂ O Fe ₂ O ₃ Sb As Al ₂ O ₃ MnO Zr and Ba.
Geology	20 man-days	Pace and compass mapping along roads and grid lines on the property. Mapping scale (Grid) 1:2500, SBS-5 1:7500.



NTS 82M/4W

SBS PROPERTY

CLAIM CONFIGURATION



MINNOVA

FIGURE 2

RESULTS

Geology

Regional Setting

The rocks of the area belong to the Eagle Bay Formation which lies along the western flank of the Shuswap Metamorphic Complex in the Omineca Belt. The Eagle Bay Formation is a multi-deformed sequence of low grade meta-sediments and volcanic rocks which range in age from Cambrian to Permian (Schiarizza and Preto, 1984). Intruded repeatedly, the Eagle Bay formation was affected by magmatism and/or volcanism in Devonian, Cretaceous and Eocene time. As evidenced by a penetrative foliation and the lack of continuity of the units along strike, the rocks of the Eagle Bay Formation were extensively deformed during the Jurassic folding event related to the Colombian Orogeny (Campbell, 1973) and during the intrusion of the Raft and Baldy batholiths in the mid-Cretaceous. Later faults and broad open folds cut through the major units and structures of the formation.

The Eagle Bay Formation is directly correlative with other stratigraphic sequences occurring on the edge of the Shuswap Metamorphic Complex. Based on lithological, structural and age similarities the Eagle Bay Formation can be correlated with both the Barkerville and the Kootenay Arc Terranes (Struik, 1986).

PROPERTY GEOLOGY

Detailed geological mapping and lithogeochemical sampling were carried out on the 30km grid. The geological mapping along the grid was compiled at a scale of 1:2500. Outcrop exposure is excellent along the old logging and skidder roads that switch-back across the grid, but sparse (<3 %) in the forest covered area. Along with the geological mapping, 175 rock samples were collected for major oxide and trace element analysis. On

the southwestern corner of the property (SBS 5 claims), a brief geological reconnaissance survey was initiated and 45 lithogeochemical samples were collected for analysis.

The property is dominated by a complex package of interlayered mafic to felsic volcanic and volcanoclastic units. These units are partly interlayered with, but mostly overlain by a turbidite sequence composed of phyllitic argillite and minor carbonates. In the following, the two sampled portions of the SBS property are discussed separately under SBS-Grid and SBS Skarn.

Property Geology: SBS-Grid

The grid area is underlain by a complex sequence of interlayered intermediate and felsic volcanic and volcanoclastic rocks. This succession has been regionally metamorphosed to sub-greenschist facies and intensively deformed. A penetrative mineral foliation (striking NW and dipping NE) obscures most of the primary structures. The intermediate rocks are strongly foliated and altered to green phyllite and schist (chlorite and sericite). Rocks of more felsic affinities are ankeritic. Abundant carbonate phenocrysts, probably pseudomorphic after plagioclase, and limonite pseudomorphs after iron rich carbonate give the rocks a characteristic brown tinge. Detailed mapping has outlined 6 map units (Map 1). These units were defined using field observation combined with lithogeochemical data (Appendix 1). The 6 units can be divided into 3 main groups:

- (1) A chloritized volcanic and volcanoclastic group (probably andesitic in composition).
- (2) An ankerite-sericite intermediate to felsic group (dacite to rhyo-dacite and quartz porphyries).

- (3) An intrusive group (mainly quartz monzonite to diorite).

The penetrative foliation and the intense alteration superimposed on the rocks in the area hindered the determination of a definite protolith for these units. It does appear that each group contains lenticular horizons composed of massive component and of their pyroclastic and/or extrusive equivalent. These groups are in stratigraphic continuity; however, the stratigraphic relationships between mapable units remains undetermined. Definite folds are difficult to outline due to schistosity developed in the rocks. Folding evidence was only seen in one area where northwest plunging folds are exposed. Consequently, stratigraphic repetitions caused by unrecognized folds and/or faults may exist.

Throughout the area, quartz veining is well developed. It consists of numerous criss-crossing veins and veinlets and of some major veins (up to 1.5m thick). Besides disseminated pyrite, which occurs in rocks of each unit, the rocks on the SBS Grid contain little other visible sulphide mineralization. Locally, malachite staining and small chalcopyrite and galena blebs occur (mainly at sample locations 103, 243, 261, 266, 272, 292, 294, 295, and 348). The felsic quartz porphyry unit 5.1 appears to be the most favorable host for the mineralization.

Description of rock units

Principal lithological units are shown in Map 1, and detailed in the following:

Chloritized Intermediate volcanic group

This group includes units 2.1 and 2.3c and contains mainly tuffaceous and aphanitic chlorite phyllite and schist. Geochemically the rocks of this group have a low SiO₂ content (between 55 and 62 %) combined

with TiO₂ values greater than .75 and lower than 1.05 (see appendix 1 for data). The rocks of this group are propylitized as evidenced by abundant and pervasive chlorite and local sericite development and by the presence of numerous calcite pods, swells and veinlets. The most likely protolith for the rocks of this group is andesitic. The distinction between the two members of this group (unit 2.1 and 2.3c) in the field is difficult firstly because of their fine grained nature and secondly because they seem to be of variable lateral extent and lenticular in shape. The rocks of unit 2.1 are aphanitic to fine grained chlorite phyllite with occasional pyrite grains and/or aggregates of grains in the plane of foliation. Locally quartz and carbonate occur as diffuse stringers. Chlorite phyllites of unit 2.3c are composed of a fine grained chlorite groundmass supporting slightly coarser quartz grains and volcanic fragments. Medium-grained carbonate porphyroblasts as well as calcite-rich pods are often found in the phyllite. Sericite is generally not abundant in these rocks. Disseminated pyrite is between 1 to 5% and limonite stains are occasionally well developed along fractures and foliation planes.

Intermediate to Felsic volcanic group

This group includes the rocks of unit 2.3a and 2.3s, 3.0, and 5.1. They are quartz-feldspar-sericite schists of various affinities. Unit 2.3 is composed of quartzo-feldspathic schists with variable amounts of superimposed sericite and iron carbonate alteration. They contain variable amounts of sericite-altered crystals or volcanic fragments (<.5cm) in a very fine-grained light colored quartz-feldspar matrix. The schistose medium-grained quartz sericite layers or partings may be the result of hydrothermal alteration, consequently, some rocks of this unit may be an altered version of rocks from other units. Geochemically these rocks are intermediate in composition with a wide range of SiO₂ and TiO₂ content (SiO₂ between 62 and 70 %, and TiO₂ between .30 to .75). The rocks of this unit contain variable amounts of sericite and ankerite and outcropped as pale tan (2.3a) to pale green (2.3s) phyllites and schists. The well

layered quartzo-feldspathic schist contains 1 to 5 % disseminated pyrite. The pyrite occurs in two forms; 1) as random disseminated irregular and very fine grains, and 2) as scattered sub-euhedral coarser grains. The pyrite altered to limonite gives a spotty appearance to the rocks. Numerous quartz-carbonate veins and veinlets cut through the rocks of this unit.

The rocks of unit 3.0 have a fine-grained moderately foliated crystalline granitic appearance with superimposed patchy sericite and/or feldspathic alteration. This unit is brown weathered due to the alteration of its Fe-carbonate rich mineral. Geochemically this group includes rocks with a high silica content (>70 %) combined with a relatively low (<.25 %) TiO₂ content. They are derived from volcanic rocks of felsic affinities (probably rhyo-dacite to rhyolite in composition).

The rocks of unit 5.1 are soft and schistose?, highly sericitic quartz porphyry schists. The quartz porphyries range in size from 1 to 10 mm and can represent 20 to 25% of the rock. They are supported by a pervasively sericitized and intensively foliated groundmass. The sub-rounded non-flattened nature of the quartz phenocrysts resulted in a distinctive bumpy altered surface. Occasionally rocks of this unit (specifically at sample location 294) exhibit spotty malachite staining and carry small amounts of chalcopyrite.

Intrusive group

The intrusive group includes weakly foliated granitic textured fine to medium grained rock of porphyritic diorite composition. The rocks are composed of medium to coarse-grained sub-euhedral quartz and plagioclase crystals in a medium-grained sericitized plagioclase and quartz rich matrix. The intrusives are mainly sill like bodies and are in more or less concordant contact with the adjacent sericite phyllites and schists.

LITHOGEOCHEMISTRY

A total of 175 rock samples were taken during the survey of the gridded area. Samples were of fresh rock representative of the outcrop from which they were taken, weighed 1 1/2 to 2 lbs and were analyzed for Cu, Pb, Zn, Ag, Au, As, Sb, SiO₂, TiO₂, CaO, MgO, Na₂O, K₂O, Fe₂O₃, Al₂O₃, MnO, Zr and Ba.

All samples were analyzed at Min-En Labs in North Vancouver. Major and minor elements were analyzed by ICP using a fused pellet (Lithium Borate flux) and aqua-regia digestion. Cu, Pb, Zn, Ag, As and Sb were analyzed by ICP after an aqua-regia digestion and Au was analyzed by standard wet geochemical procedures with an AA finish.

All elements are plotted on 1:2500 scale maps in the back pocket. Notes on their significance follow this paragraph. All were viewed taking into consideration statistics derived from reconnaissance of the entire property done in 1986 and summarized in table 2.

SiO₂, TiO₂, CaO, MgO (Map 2)

These elements are generally lithologically related although CaO and MgO may indicate carbonatization and chloritization respectively.

Both SiO₂ and TiO₂ almost without exception confirm the presence of an intermediate to locally felsic volcanic package. Weak MgO enhancement with respect to the property background shows no obvious spatial pattern. CaO enrichment is both weak and rare.

Na₂O, K₂O (Map 3)

These alkalis are highly mobile during hydrothermal alteration and hence are useful indicators of such. The grid area shows considerable

TABLE 2
SBS LITHOGEOCHEMISTRY
SUMMARY STATISTICS
(146 SAMPLES)

<u>Element</u>	<u>Mean</u>	<u>Range</u>	<u>Stan. Dev.</u>	<u>Population Type</u>	<u>Comments</u>
Cu (ppm)	94	8-1960	NA	strong +ve skew	Main pop. is less than 60
Pb (ppm)	90	50-650	NA	strong +ve skew	> 240 is high based on pop. shape
Zn (ppm)	78	10-1040	NA	+ve skew	> 100 is high based on pop. shape
Au (ppb)	7	3 -45	4.9	fairly normal	> 16.8 is statistically anomalous
Ag (ppm)	0.49	0.1 - 3.7	NA	+ve skew	> 1.0 is high based on pop. shape
Ba (ppm)	920	50-2450	400	fairly normal	> 1720 is statistically anomalous
SiO ₂ (%)	65.7	39.4-86.8	7.0	dual population	basalt mode = 51.25; other mode = 68.75
TiO ₂ (%)	0.55	0.07-2.44	NA	+ve skew	anomalous 'tail' > 1.0
CaO (%)	2.73	0.03-19.54	NA	strong +ve skew	main pop. is < 5%
MgO (%)	1.84	0.17-10.97	NA	strong +ve skew	> 2.25% is high based on pop. shape
Na ₂ O (%)	2.89	0.05-9.44	NA	overlapping popula- tions?	> 6 and < 2 should be examined
K ₂ O (%)	2.96	0.12-7.08	1.19	fairly normal	> 5.34 statistically anomalous
Fe ₂ O ₃ * (%)	5.81	1.92-20.32	NA	multi modal	broad undefined population
MnO ₂ (%)	0.25	0.03-1.42	NA	+ve skew	> 0.325 anomalous pop. 'tail'
Al ₂ O ₃ (%)	15.3	2.09-24.04	2.5	fairly normal	< 10.3 and > 20.3 are statistically anomalous
Zr (%)	0.017	0.005-0.032	0.006	fairly normal	no real trends

* Fe₂O₃ as Total Iron

soda depletion which does not appear to be stratigraphy related and will require further checking. Potash enrichment is less obvious but, where present, is related to the soda depletion.

Ba, Cu, Pb, Zn (Map 4)

These elements are the direct pathfinders for base metal - barite massive sulphide deposits believed to occur in the area. In the case of Pb the analytical method is different from that of Table 2 (now standard ICP as opposed to fusion/ICP) therefore the statistics were not valid. Consequently an arbitrary threshold value of 50ppm was established on consideration of the data.

All elements show numerous anomalies, especially Cu (up to 1598ppm) and Zn (up to 988ppm). This is considered very encouraging and warranting further exploration.

Au, Ag (Map 5)

Gold and silver values are generally quite low, although two Ag values of 4.8ppm (#100, 351) and a 6.1ppm (#294) are strongly anomalous. Numerous other values are greater than the threshold of 1ppm. Overall the results are consistent with known systems in the area where precious metal values are rarely very anomalous unless right in the heart of a mineralizing system.

As, Sb (Map 6)

These elements were not run in the original reconnaissance therefore no statistical data is available. cursory examination reveals that Sb values are uniformly low while the majority of As values are less than 20ppm. Consequently several As anomalies are apparent, most notably sample #325 (288ppm), #324 (203ppm) and #327 (75ppm). The close proximity

of these sample numbers gives some cause for suspicion of contamination and further sampling should be done.

Fe₂O₃ (total iron), MnO₂, Al₂O₃, Zr (Map 7)

These elements are generally lithologically controlled and all are consistent with an intermediate to felsic volcanic package. Several anomalous MnO₂ values are indicated, however their significance is uncertain at this time.

GEOPHYSICS (Maps 8,9)

A Max Min II survey was conducted over the grid area by MWH Geophysics Ltd. A 150m coil separation was used. Two frequencies, 444 and 1777 Hz were recorded at 25m intervals along the grid lines.

At each station, secant measurements were taken to correct for nominal coil spacing irregularities induced by rough terrain. The in-phase and out-of-phase values, read as a percentage of the primary field strength, were recorded for each frequency.

Serious problems were encountered during the survey due to topography, forest company road construction and slash burning. As a result the data is quite noisy and has several gaps in it. However, no anomalies seem to be present on either frequency.

PROPERTY GEOLOGY SBS-SKARN

A skarnified phyllite lies in a turbidite-like sequence in contact with meta-volcanic rocks in the SW part of the property. The sedimentary sequence is composed of interbedded argillaceous limestone and black phyllite with discontinuous horizons of calcareous phyllite. The meta-volcanic rock succession contains basalts and cherty tuff in contact with a more intermediate-felsic volcanic and volcanoclastic package (Map 10).

These units appear in stratigraphic continuity. A penetrative foliation is well developed in the argillaceous and calcareous rocks and in the phyllites. It strikes similarly to the foliation in the rocks of the rest of the property (NW dipping NE). Small scale folds are ubiquitous in the skarnified phyllite however, neither large scale folds nor top indicators were found during this brief survey.

Skarn alteration is developed at the contact between the two units where thin light grey and green phyllite layers (banded tuff and phyllites) host garnet and epidote associated with quartz and calcite. The skarnified phyllite contains abundant pyrite and pyrrhotite in masses with minor scattered blebs of chalcopyrite and trace galena. A distinct asbestiform amphibole (probably pyrophyllite) fills tension fracture-veins in the massive greenstone.

Porphyritic quartz monzonite to quartz diorite bodies were found in close proximity to the skarnified phyllite. Quartz veining is locally abundant in the granitic textured rocks but the relationship between the skarn development and the presence of the intrusive bodies in their vicinities have not been yet clearly established.

LITHOGEOCHEMISTRY - SKARN ZONE

Using the procedures outlined in the Litho section on the grid area (page 8) 45 rock samples were taken during the skarn zone reconnaissance and analyzed by the same methods for the same elements. Since the number of samples is not statistically valid no attempt has been made to thus define anomalous and background, nor, since the geology of this area is atypical of the property as a whole, are the statistics shown in Table 2 valid. However, the precious metal values along with Sb and As are readily interpretable and the major elements will provide an important base of data for future work as well as enhancing the geological interpretation. All data are displayed on Maps 11 through 16.

It is apparent that Sb, As and Ag all display extremely noisy and high values as might be expected in a skarn. Unfortunately, Au is not unduly high.

Other element patterns generally back up the geological division into mafic volcanic/intrusive, felsic volcanic and limey phyllite/sediment.

CONCLUSIONS AND RECOMMENDATIONS

Work on two areas of the SBS claim block during 1987 has provided both an insight into the geology of the property and encouragement to continue exploration.

In the area covered by a grid a better handle on the complex intermediate to felsic volcanic package has been obtained. Although no clear cut stratigraphic markers were established variations in texture and alteration mineralogy can be seen. In addition, the major and trace element lithogeochemistry strongly suggests widespread hydrothermal activity. No geophysical conductors were found but gaps in the survey should be filled when possible.

The suspected presence of a skarn zone projected from an adjacent property was confirmed. Details of the stratigraphy remain to be worked out with further work. Strongly anomalous values in Ag, Sb and As are very encouraging. A grid should be established for detailed exploration in the area.

BIBLIOGRAPHY

Schiarrizza, P.A. and Preto, V.A. 1984. Geology of the Adams Plateau-Clearwater area B.C. Ministry of Energy, Mines & Pet. Res. Map # 56.

Struik, L.C. 1986. Imbracated Terranes of the Cariboo Gold Belt with correlations and implications for tectonics in southern British Columbia. Canadian Journal of Earth Sciences, vol. 23, pp. 1047-1061.

Vollo, N.B. 1977. Soil survey of the CI claims. Assessment Report 6890.

ITEMIZED COST STATEMENT

LINECUTTING - 29.8 km @ \$310 per km	9,238.00	
GEOPHYSICS - 8 days @ \$550 per day	4,400.00	
GEOLOGY		
F. Goutier 20 days @ \$350 per day	7,000.00	
GEOCHEM		
220 rock samples @ \$20 each (WR + Ag, Au, Cu, Pb, Zn)	4,400.00	
Sampling		
D. Small 10 days @ \$150 per day	1,500.00	
A. Ross 6 days @ \$150 per day	900.00	
SUPERVISION		
I. Pirie 3 days @ \$400 per day	1,200.00	
TRUCK: 22 days @ \$60 per day	1,320.00	
FOOD & ACCOMODATION: 38 mandays @ \$50 per day	1,900.00	
INTERPRETATION, COMPUTER AND REPORT WRITING:		
2 days @ \$400 per day	800.00	
DRAFTING: 5 days @ \$150 per day	750.00	
MISCELLANEOUS	<u>500.00</u>	
	\$33,908.00	
Allocation		
SKWAAM EAST (65%)	22,040	
SKWAAM WEST (35%)	11,868	

AUTHOR'S QUALIFICATIONS

I, Francoise Goutier, certify that:

1. I am a geologist residing at 302 - 880 W 71st Avenue, Vancouver, BC.
2. I have a BSc in Geology from the Universite de Montreal, Quebec (1982) and a MSc (Economic Geology) from the University of British Columbia, Vancouver, BC (1986).
3. I have practised my profession since 1982.
4. I personally carried out or supervised the work reported herein.

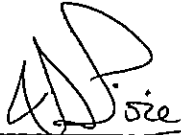
Francoise Goutier

Certificate of Qualifications

I, Ian D. Pirie certify that:

1. I am an Exploration Geologist residing at 4580 - 44B Avenue, Delta B. C.
2. I have a BSc (Hons.) in Applied Geology from the University of Strathclyde, Glasgow, Scotland (1977) and a MSc (Geology/Geochemistry) from Queen's University at Kingston, Ontario (1980).
3. I have practised my profession since 1977.
4. I personally carried out or supervised the work reported herein.

8/7/88
Date


Ian D. Pirie



APPENDIX I

GEOCHEMICAL ANALYSIS LISTING

SAMPLE NO.	AL2O3	BA	CAO	FE2O3	K2O	MGO	MND2	NA2O	SI02	SR	TIO2	ZR
SBS5001	13.12	0.203	7.2	3.96	3.48	4.89	0.19	3.09	56.8	0.03	0.62	0.012
SBS5002	17.66	0.038	5.79	4.98	1.69	3.71	0.21	4.76	57.89	0.04	0.75	0.008
SBS5003	13.09	0.006	13.6	10.99	0.21	4.91	0.45	1.	47.77	0.08	0.56	0.01
SBS5004	16.75	0.061	7.39	6.5	2.45	3.53	0.29	3.62	55.66	0.03	0.77	0.012
SBS5005	11.52	0.	13.63	16.17	0.18	5.35	0.68	1.64	47.31	0.02	0.66	0.012
SBS5006	14.39	0.021	12.8	10.3	0.56	3.23	0.52	2.48	42.68	0.06	0.58	0.007
SBS5007	11.6	0.005	15.62	12.11	0.08	5.59	0.66	1.06	41.97	0.02	3.51	0.025
SBS5008	6.82	0.011	16.55	12.2	0.3	9.07	0.64	0.66	44.12	0.01	0.59	0.006
SBS5009	15.45	0.02	9.56	11.74	0.73	5.62	0.4	3.06	45.95	0.06	2.59	0.013
SBS5010	12.16	0.193	14.53	5.59	2.71	8.56	0.28	0.96	44.83	0.02	0.6	0.
SBS5011	14.27	0.159	1.17	2.14	5.27	0.39	0.07	2.82	70.59	0.01	0.29	0.023
SBS5012	4.4	0.011	13.05	26.72	0.11	7.08	0.61	0.27	42.89	0.02	1.73	0.011
SBS5013	12.41	0.034	6.73	2.61	0.57	2.58	0.27	4.96	60.91	0.02	0.58	0.013
SBS5014	13.66	0.007	15.47	9.45	0.11	2.9	0.55	2.75	44.25	0.06	0.59	0.003
SBS5015	17.4	0.059	10.46	5.92	2.13	6.16	0.27	2.41	51.74	0.03	0.95	0.005
SBS5016	14.86	0.013	10.84	8.5	0.47	5.03	0.67	3.42	53.04	0.03	0.75	0.005
SBS5017	14.96	0.	13.69	7.14	0.11	4.22	0.4	2.65	51.25	0.06	1.19	0.
SBS5018	10.03	0.	15.09	14.67	0.11	6.12	0.87	0.58	43.49	0.02	1.01	0.003
SBS5019	11.38	0.06	4.32	4.8	1.42	3.56	0.19	3.35	67.49	0.01	0.69	0.024
SBS5020	13.66	0.	12.6	5.93	0.08	5.51	0.33	3.83	51.1	0.04	1.6	0.008
SBS5021	15.53	0.005	13.92	8.23	0.19	3.27	0.4	2.58	50.4	0.02	0.64	0.003
SBS5022	18.62	0.009	5.74	12.31	0.15	5.17	0.27	4.27	48.03	0.07	0.92	0.006
SBS5023	9.43	0.	16.67	15.15	0.1	4.67	0.65	0.12	42.48	0.03	0.42	0.
SBS5024	16.74	0.009	8.09	12.94	0.2	5.54	0.3	2.16	44.45	0.07	0.99	0.
SBS5025	14.79	0.123	2.53	2.06	3.63	0.63	0.09	2.66	69.8	0.01	0.33	0.021
SBS5026	14.33	0.094	2.4	2.91	3.17	0.58	0.09	3.67	69.39	0.01	0.31	0.02
SBS5027	15.08	0.18	1.22	1.92	5.46	0.38	0.09	2.74	69.76	0.01	0.31	0.027
SBS5028	15.25	0.136	0.17	3.69	2.65	0.57	0.11	2.88	71.59	0.01	0.4	0.018
SBS5029	15.49	0.063	1.43	6.49	1.69	1.73	0.35	3.33	66.29	0.02	0.49	0.018
SBS5030	15.72	0.101	1.1	4.47	2.2	0.95	0.11	3.99	68.53	0.02	0.47	0.015
SBS5031	15.93	0.193	0.14	4.52	4.49	1.22	0.06	2.01	68.52	0.01	0.45	0.02
SBS5032	15.43	0.056	1.42	4.53	1.08	0.95	0.08	5.79	67.3	0.03	0.46	0.017
SBS5033	14.47	0.	12.7	11.04	0.12	3.86	0.4	2.77	50.27	0.04	0.93	0.017
SBS5034	13.72	0.014	11.33	11.53	0.23	6.59	0.53	2.67	46.22	0.03	3.32	0.022
SBS5035	14.77	0.128	0.06	4.12	3.93	0.6	0.23	1.91	71.62	0.01	0.32	0.02
SBS5036	14.35	0.121	2.65	1.62	3.49	0.58	0.1	2.71	70.33	0.01	0.28	0.015
SBS5037	14.85	0.168	1.11	2.27	5.11	0.43	0.07	2.97	69.93	0.01	0.3	0.017
SBS5038	15.58	0.096	1.73	6.57	2.88	5.89	0.2	2.62	61.01	0.01	0.66	0.011
SBS5039	13.94	0.172	0.81	2.93	4.76	0.49	0.06	2.41	71.19	0.01	0.22	0.019
SBS5041	14.45	0.148	1.16	3.83	3.57	0.55	0.11	3.62	68.95	0.01	0.32	0.023
SBS5042	14.5	0.149	0.7	3.49	4.4	0.36	0.07	3.38	69.47	0.02	0.3	0.022
SBS5044	14.76	0.11	0.62	3.13	3.43	0.6	0.1	3.01	71.06	0.01	0.31	0.019
SBS5045	14.83	0.153	0.91	2.86	4.59	0.42	0.08	3.15	69.47	0.01	0.31	0.022
SBS200	14.79	0.1	4.74	3.93	2.9	1.36	0.35	3.25	64.11	0.01	0.36	0.021
SBS204	17.07	0.07	0.19	6.14	2.88	0.66	0.2	2.42	67.19	0.01	0.68	0.019
SBS205	13.75	0.089	3.06	3.75	2.33	1.57	0.34	3.37	67.75	0.01	0.34	0.02
SBS206	15.32	0.061	2.1	5.38	1.82	2.3	0.21	3.46	65.66	0.01	0.64	0.015
SBS207	18.51	0.081	1.51	6.36	4.12	4.54	0.3	2.17	58.89	0.01	1.03	0.01
SBS208	14.62	0.08	5.44	5.37	2.53	2.72	0.21	2.34	58.82	0.02	0.57	0.013
SBS209	18.1	0.096	1.49	8.15	3.66	2.8	0.09	1.94	60.52	0.01	0.75	0.017
SBS211	16.01	0.071	5.49	7.49	3.76	1.17	0.62	1.01	56.29	0.01	0.71	0.014
SBS212	16.97	0.104	2.19	6.59	4.16	2.98	0.25	1.42	62.24	0.01	0.71	0.012
SBS213	16.11	0.122	0.85	5.87	3.43	1.98	0.27	2.73	65.68	0.01	0.55	0.02
SBS214	18.13	0.15	0.22	6.22	5.36	1.83	0.17	0.61	63.76	0.	0.81	0.014
SBS215	14.12	0.084	0.83	2.29	3.05	0.35	0.21	2.66	73.99	0.01	0.16	0.
SBS216	13.76	0.058	2.61	2.29	3.04	0.55	0.15	2.47	71.72	0.01	0.16	0.
SBS217	13.84	0.062	0.33	1.82	3.75	0.52	0.16	1.25	75.93	0.	0.14	0.
SBS218	16.68	0.067	2.71	6.75	3.11	2.07	0.22	2.35	62.47	0.01	0.69	0.015
SBS219	6.48	0.027	7.84	5.99	1.36	3.73	0.9	1.18	69.48	0.02	0.24	0.
SBS220	16.6	0.077	1.06	5.71	3.16	0.92	0.09	2.52	66.92	0.01	0.58	0.02

SAMPLE NO.	AL2O3	BA	CAO	FE2O3	K2O	NGO	MNO2	NA2O	SI02	SR	TIO2	ZR
SBS221	16.31	0.12	0.1	2.75	5.41	0.89	0.09	0.12	71.52	0.	0.25	0.009
SBS222	3.08	0.022	0.05	1.41	0.97	0.15	0.09	0.02	91.88	0.	0.04	0.005
SBS223	18.43	0.11	0.12	8.34	4.02	0.82	0.16	1.36	63.43	0.01	0.76	0.013
SBS224	15.39	0.092	2.13	4.32	2.23	0.72	0.12	4.14	67.14	0.01	0.42	0.027
SBS225	16.59	0.103	2.35	7.35	2.6	2.19	0.19	3.86	60.86	0.01	0.63	0.015
SBS226	17.12	0.127	1.28	5.48	3.99	1.78	0.1	2.13	64.42	0.01	0.64	0.019
SBS227	12.84	0.108	6.64	4.47	3.08	2.97	0.5	1.96	61.98	0.02	0.29	0.015
SBS228	13.78	0.113	0.29	3.23	3.54	0.78	0.27	1.74	73.57	0.01	0.4	0.015
SBS229	18.15	0.031	0.5	7.31	3.53	5.64	0.23	0.4	60.96	0.01	0.85	0.005
SBS230	8.27	0.018	0.13	3.79	1.99	1.91	0.1	0.13	80.86	0.	0.36	0.005
SBS231	16.29	0.109	0.78	5.55	3.19	1.75	0.19	3.02	66.15	0.01	0.44	0.022
SBS232	14.5	0.099	3.8	4.74	2.94	1.59	0.22	3.05	65.43	0.02	0.45	0.013
SBS233	15.28	0.103	2.09	4.11	2.82	0.73	0.17	3.67	67.76	0.01	0.4	0.017
SBS234	16.13	0.135	0.57	3.79	3.72	0.7	0.13	2.8	69.2	0.01	0.35	0.029
SBS235	15.51	0.07	0.43	5.21	1.99	0.5	0.28	4.	69.19	0.01	0.46	0.022
SBS236	14.97	0.105	0.93	3.4	2.47	0.64	0.05	4.2	70.46	0.01	0.3	0.02
SBS237	14.35	0.059	3.45	4.6	1.59	1.72	0.15	5.05	66.1	0.02	0.4	0.019
SBS238	13.08	0.056	2.33	2.14	4.28	1.47	0.35	0.07	71.97	0.01	0.15	0.
SBS239	14.09	0.096	0.4	2.94	2.44	0.56	0.14	3.67	72.96	0.01	0.26	0.019
SBS240	16.03	0.077	2.81	7.24	2.6	2.59	0.29	2.71	61.26	0.01	0.74	0.014
SBS241	14.92	0.099	1.29	4.66	4.57	1.31	0.23	0.35	69.94	0.01	0.39	0.022
SBS242	13.81	0.127	1.38	2.98	3.23	0.92	0.11	2.46	72.23	0.01	0.26	0.016
SBS244	15.42	0.082	0.08	3.05	5.14	0.89	0.3	0.14	72.34	0.	0.25	0.007
SBS245	15.07	0.102	0.15	2.87	2.9	0.53	0.11	3.51	72.16	0.01	0.27	0.017
SBS246	15.45	0.09	2.26	7.35	2.03	2.03	0.18	3.65	61.94	0.02	0.74	0.01
SBS247	14.22	0.113	3.12	3.76	3.64	0.94	0.24	2.1	68.08	0.01	0.3	0.019
SBS248	15.62	0.078	2.45	6.83	2.2	1.75	0.14	3.78	62.11	0.02	0.75	0.015
SBS249	14.55	0.111	2.43	3.18	3.61	0.97	0.1	2.32	69.55	0.01	0.3	0.024
SBS250	15.22	0.097	3.74	5.39	2.74	2.07	0.16	3.12	63.1	0.02	0.45	0.015
SBS251	15.16	0.108	1.53	4.15	3.25	1.	0.12	3.17	67.32	0.01	0.42	0.021
SBS252	15.33	0.134	1.96	5.7	3.73	1.25	0.12	2.11	66.84	0.01	0.41	0.018
SBS253	15.75	0.097	2.92	6.86	3.4	0.72	0.37	2.84	64.2	0.01	0.5	0.015
SBS254	14.64	0.103	0.84	3.14	3.37	0.59	0.11	2.64	72.01	0.01	0.29	0.02
SBS255	15.48	0.129	0.44	3.2	3.75	0.82	0.16	2.9	69.95	0.01	0.35	0.026
SBS256	15.65	0.103	1.6	3.24	2.5	0.96	0.05	4.61	67.83	0.01	0.37	0.026
SBS257	14.22	0.084	3.07	3.16	3.13	0.82	0.27	2.8	69.11	0.01	0.35	0.019
SBS258	18.17	0.185	1.07	8.92	5.44	2.84	0.16	0.4	59.04	0.01	0.69	0.008
SBS259	15.43	0.108	1.39	4.79	3.52	1.57	0.18	1.83	67.7	0.01	0.41	0.02
SBS260	15.32	0.095	2.44	5.13	2.62	1.2	0.15	3.35	65.66	0.01	0.46	0.019
SBS261	15.31	0.07	3.67	3.9	2.25	0.71	0.15	4.03	64.05	0.02	0.42	0.031
SBS262	14.65	0.095	1.59	2.86	2.49	0.56	0.13	4.4	69.05	0.01	0.33	0.021
SBS263	15.96	0.137	2.	4.09	2.95	1.16	0.14	3.47	65.32	0.01	0.41	0.021
SBS264	13.84	0.088	2.98	3.78	2.71	0.96	0.08	2.94	67.57	0.02	0.31	0.018
SBS265	13.29	0.065	2.56	2.74	2.17	0.98	0.15	3.96	69.34	0.01	0.19	0.018
SBS266	16.55	0.068	3.7	14.28	1.92	4.7	0.42	2.55	51.18	0.02	0.68	0.
SBS268	15.4	0.138	1.65	4.93	4.13	0.8	0.17	2.25	66.37	0.01	0.45	0.021
SBS269	14.47	0.07	0.49	2.49	1.77	0.32	0.09	5.11	72.45	0.01	0.26	0.016
SBS270	14.56	0.093	1.73	3.42	2.72	0.58	0.26	3.62	68.7	0.01	0.33	0.021
SBS271	15.66	0.117	1.62	6.73	3.44	0.75	0.31	2.62	64.59	0.01	0.64	0.016
SBS272	14.74	0.112	1.81	3.51	3.06	0.67	0.19	3.5	68.96	0.01	0.35	0.015
SBS273	15.4	0.219	0.23	2.99	2.46	0.44	0.1	4.6	70.82	0.01	0.31	0.018
SBS274	16.13	0.066	5.83	8.15	1.33	3.84	0.23	4.2	51.88	0.03	0.61	0.007
SBS275	17.34	0.085	1.71	5.61	4.15	2.31	0.25	1.35	63.93	0.01	0.69	0.014
SBS276	15.94	0.068	3.34	5.89	2.51	1.72	0.24	3.43	62.72	0.01	0.71	0.012
SBS277	16.77	0.056	1.81	6.55	2.88	0.99	0.23	2.63	64.17	0.01	0.71	0.013
SBS278	14.74	0.066	1.49	5.13	2.74	1.96	0.28	2.17	67.72	0.01	0.54	0.013
SBS279	15.84	0.071	1.29	6.09	3.15	2.	0.17	2.2	65.78	0.01	0.59	0.018
SBS280	16.8	0.096	1.43	6.2	3.34	1.14	0.18	2.38	65.38	0.01	0.65	0.02
SBS281	17.34	0.093	0.86	6.45	2.76	1.21	0.11	3.35	64.47	0.01	0.8	0.017
SBS282	16.53	0.1	2.05	6.76	3.43	1.73	0.2	1.73	64.08	0.01	0.68	0.017

SAMPLE NO.	AL2O3	BA	CAD	FE2O3	K2O	MGO	MNO2	NA2O	SI02	SR	TIO2	ZR
SBS283	16.51	0.098	0.18	10.31	3.	2.48	0.21	1.3	62.8	0.01	0.78	0.013
SBS284	14.79	0.125	0.82	3.04	2.61	0.8	0.05	4.55	70.55	0.02	0.29	0.02
SBS285	15.93	0.09	0.25	3.32	3.2	0.62	0.22	3.32	70.18	0.01	0.4	0.028
SBS286	16.4	0.072	2.28	5.94	1.86	0.95	0.12	5.08	63.8	0.02	0.65	0.025
SBS287	16.49	0.083	3.12	3.27	2.61	0.73	0.07	4.28	65.92	0.02	0.53	0.029
SBS288	15.81	0.101	1.68	3.55	3.01	0.67	0.11	4.4	67.8	0.01	0.37	0.027
SBS289	17.96	0.133	2.61	7.46	4.34	2.42	0.27	1.4	59.42	0.01	0.9	0.014
SBS290	13.45	0.082	0.04	3.2	3.63	1.2	0.1	0.11	75.86	0.01	0.14	0.
SBS291	13.95	0.084	0.51	6.62	2.36	2.05	0.18	2.25	69.61	0.01	0.28	0.02
SBS292	18.76	0.208	0.43	4.49	5.62	0.85	0.05	2.21	64.51	0.01	0.43	0.031
SBS293	17.46	0.072	0.79	12.02	2.44	4.83	0.22	1.4	57.35	0.01	0.86	0.015
SBS294	12.67	0.069	0.04	8.9	1.94	2.4	0.15	1.69	68.67	0.01	0.24	0.017
SBS295	15.52	0.051	0.62	7.76	1.97	4.45	0.26	2.49	63.57	0.01	0.8	0.01
SBS297	15.18	0.09	2.19	7.39	3.3	2.63	0.2	1.38	63.66	0.01	0.63	0.014
SBS298	14.8	0.087	3.62	4.97	2.85	1.03	0.16	2.99	65.17	0.02	0.45	0.015
SBS299	15.59	0.076	3.58	6.76	2.53	4.02	0.23	3.22	58.63	0.02	0.5	0.011
SBS300	13.9	0.113	2.61	4.15	3.71	0.88	0.16	2.15	67.72	0.01	0.3	0.02
SBS301	15.88	0.131	1.2	5.78	3.65	1.76	0.11	2.69	65.71	0.01	0.46	0.017
SBS302	14.58	0.088	0.15	3.39	3.33	0.76	0.12	2.72	72.27	0.01	0.29	0.019
SBS303	16.25	0.116	2.14	7.25	3.29	1.5	0.12	2.55	63.23	0.01	0.78	0.013
SBS304	12.3	0.029	0.07	9.64	2.	0.55	0.06	2.84	69.76	0.01	0.33	0.022
SBS305	17.98	0.171	0.62	3.29	4.33	0.82	0.06	3.1	66.98	0.01	0.39	0.029
SBS306	16.98	0.07	0.17	6.08	3.04	0.67	0.1	2.87	66.9	0.01	0.62	0.021
SBS307	13.43	0.063	2.05	1.99	3.08	0.42	0.14	2.37	73.54	0.01	0.15	0.
SBS308	17.19	0.068	3.86	12.47	2.25	3.67	0.39	2.53	53.93	0.02	0.67	0.
SBS309	14.67	0.068	0.06	2.37	4.93	0.81	0.17	0.1	74.3	0.	0.24	0.005
SBS310	15.27	0.074	0.88	4.5	2.81	0.77	0.17	3.14	69.54	0.01	0.44	0.019
SBS311	16.03	0.082	2.99	6.8	2.33	3.22	0.25	2.74	61.99	0.01	0.69	0.008
SBS312	16.03	0.059	2.37	7.97	2.61	3.69	0.28	2.11	61.18	0.01	0.63	0.007
SBS313	15.29	0.094	1.6	6.41	3.24	0.94	0.27	1.94	66.82	0.01	0.54	0.018
SBS314	12.48	0.081	3.09	3.82	3.09	0.98	0.39	1.68	70.81	0.01	0.28	0.019
SBS316	12.77	0.05	2.44	2.52	1.88	0.88	0.18	3.88	71.98	0.01	0.22	0.014
SBS317	14.52	0.089	2.31	3.1	2.15	0.59	0.08	4.32	69.31	0.02	0.32	0.023
SBS318	14.84	0.093	4.98	3.08	1.58	1.41	0.1	5.1	65.47	0.03	0.47	0.021
SBS319	18.92	0.142	0.38	6.2	4.75	2.26	0.16	2.53	61.54	0.01	0.7	0.012
SBS320	20.21	0.126	0.47	6.25	3.65	1.6	0.17	4.67	59.52	0.01	0.78	0.03
SBS321	12.62	0.077	3.65	3.65	2.9	1.03	0.27	2.52	68.29	0.01	0.32	0.013
SBS322	17.17	0.069	0.32	6.44	2.16	2.	0.07	5.44	63.14	0.01	0.72	0.017
SBS323	14.41	0.123	2.48	8.83	2.28	3.38	0.37	1.92	61.53	0.02	0.7	0.009
SBS324	14.74	0.095	2.8	6.81	2.29	2.52	0.26	2.95	63.12	0.02	0.66	0.011
SBS325	17.09	0.076	0.47	8.25	2.63	3.19	0.45	2.29	62.06	0.01	0.77	0.009
SBS326	16.23	0.128	2.33	7.97	3.06	1.61	0.29	2.89	61.23	0.02	0.76	0.011
SBS327	14.8	0.126	1.83	3.49	4.06	0.85	0.09	2.21	69.07	0.01	0.31	0.022
SBS328	15.58	0.068	4.41	6.85	2.35	2.71	0.25	2.65	58.07	0.02	0.62	0.01
SBS329	19.18	0.078	0.35	7.91	3.56	3.17	0.21	1.94	60.07	0.01	0.86	0.015
SBS330	14.79	0.052	2.33	6.49	2.01	2.54	0.27	3.47	64.68	0.01	0.51	0.018
SBS331	16.61	0.07	2.81	8.35	2.87	0.73	0.37	2.19	62.37	0.01	0.75	0.014
SBS332	16.57	0.087	0.78	8.13	4.08	1.67	0.43	0.77	64.21	0.01	0.74	0.012
SBS333	14.13	0.055	5.22	5.91	3.09	1.62	0.52	2.07	60.86	0.01	0.59	0.008
SBS334	14.5	0.083	2.03	3.2	1.92	0.48	0.09	4.57	69.47	0.02	0.31	0.02
SBS335	13.81	0.078	1.93	2.62	2.24	0.7	0.13	4.17	71.62	0.01	0.26	0.021
SBS336	13.69	0.076	2.27	4.27	2.83	0.82	0.34	2.61	70.34	0.01	0.3	0.016
SBS337	14.46	0.132	2.03	3.11	3.05	1.07	0.2	3.21	70.06	0.01	0.29	0.023
SBS338	13.92	0.087	0.8	2.6	2.18	0.43	0.17	4.18	73.16	0.01	0.22	0.016
SBS339	16.32	0.228	0.42	5.18	5.02	1.22	0.2	0.3	68.14	0.01	0.52	0.027
SBS340	16.36	0.165	0.85	4.43	3.6	0.89	0.09	2.94	67.51	0.01	0.54	0.022
SBS341	16.26	0.088	2.86	5.	2.18	1.17	0.15	4.73	63.29	0.02	0.71	0.022
SBS342	13.83	0.093	0.08	2.56	2.34	0.45	0.06	3.64	74.38	0.01	0.22	0.013
SBS343	14.69	0.102	1.28	4.06	3.18	0.68	0.19	3.1	69.65	0.01	0.33	0.021
SBS344	16.83	0.106	1.43	6.73	3.16	1.63	0.14	3.25	63.02	0.01	0.78	0.014

SAMPLE NO.	TOT(%)	NA+K	AG	AS	B	CU	PB	SB	ZN	AU-PPB	LINE	DEP
SBS5001	93.59	6.57	0.8	10.	1.	10.	21.	1.	18.	5.		
SBS5002	97.52	6.45	1.2	21.	7.	29.	15.	1.	28.	5.		
SBS5003	92.68	1.21	2.	3.	15.	52.	17.	3.	45.	5.		
SBS5004	97.06	6.07	1.7	9.	6.	36.	11.	1.	21.	10.		
SBS5005	97.17	1.82	2.6	13.	5.	76.	12.	4.	19.	5.		
SBS5006	87.65	3.04	2.1	4.	13.	10.	15.	2.	53.	5.		
SBS5007	92.25	1.14	5.5	14.	10.	4.	34.	3.	44.	15.		
SBS5008	90.97	0.96	1.8	9.	1.	24.	13.	1.	17.	10.		
SBS5009	95.19	3.79	5.8	45.	25.	230.	5002.	742.	101.	60.		
SBS5010	90.43	3.67	2.3	19.	6.	37.	95.	11.	13.	5.		
SBS5011	97.21	8.09	0.6	7.	1.	20.	30.	13.	29.	5.		
SBS5012	96.9	0.38	4.5	1.	5.	964.	69.	14.	32.	20.		
SBS5013	91.68	5.53	2.4	65.	2.	22.	63.	834.	51.	5.		
SBS5014	89.81	2.86	2.9	58.	22.	34.	48.	1743.	78.	5.		
SBS5015	97.51	4.54	2.4	13.	7.	4.	16.	27.	21.	5.		
SBS5016	97.63	3.89	2.4	99.	8.	25.	68.	12.	60.	5.		
SBS5017	95.68	2.76	3.4	12.	7.	1.	200.	1.	29.	5.		
SBS5018	92.	0.69	2.6	12.	9.	27.	20.	2.	51.	10.		
SBS5019	97.29	4.77	2.2	13.	3.	22.	15.	2.	30.	5.		
SBS5020	94.69	3.91	3.8	18.	1.	1.	21.	2.	11.	15.		
SBS5021	95.19	2.77	1.5	22.	2.	18.	4.	1.	22.	5.		
SBS5022	95.57	4.42	2.4	4.	35.	29.	16.	2.	128.	5.		
SBS5023	89.72	0.22	1.9	9.	9.	1.	11.	2.	41.	5.		
SBS5024	91.49	2.36	2.5	21.	42.	34.	28.	4.	140.	5.		
SBS5025	96.68	6.29	0.8	3.	1.	1.	10.	1.	10.	5.		
SBS5026	96.98	6.84	0.8	12.	1.	8.	8.	2.	24.	10.		
SBS5027	97.17	8.2	0.5	4.	1.	4.	9.	1.	24.	5.		
SBS5028	97.48	5.53	0.3	1.	3.	1.	7.	2.	43.	5.		
SBS5029	97.39	5.02	1.1	7.	15.	5.	24.	5.	70.	5.		
SBS5030	97.68	6.19	0.6	1.	6.	1.	12.	3.	42.	5.		
SBS5031	97.56	6.5	0.3	10.	7.	1.	14.	2.	46.	5.		
SBS5032	97.14	6.87	0.5	2.	5.	1.	11.	3.	36.	5.		
SBS5033	96.61	2.89	2.3	6.	2.	153.	11.	1.	16.	10.		
SBS5034	96.22	2.9	2.2	19.	14.	16.	22.	4.	78.	5.		
SBS5035	97.69	5.84	0.4	48.	1.	13.	30.	2858.	37.	5.		
SBS5036	96.27	6.2	0.7	6.	2.	3.	12.	1.	21.	5.		
SBS5037	97.22	8.08	0.4	5.	2.	6.	10.	1.	23.	5.		
SBS5038	97.25	5.5	1.5	5.	26.	3.	28.	2.	169.	20.		
SBS5039	97.01	7.17	0.6	1.	2.	18.	9.	1.	27.	10.		
SBS5041	96.75	7.19	0.9	6.	3.	6.	10.	1.	22.	5.		
SBS5042	96.87	7.78	0.6	8.	2.	9.	8.	2.	23.	5.		
SBS5044	97.16	6.44	0.7	7.	1.	9.	11.	1.	19.	5.		
SBS5045	96.8	7.74	1.	10.	2.	10.	77.	2.	26.	10.		
SBS200	95.93	6.15	1.2	18.	9.	19.	23.	1.	42.	10.		
SBS204	97.52	5.3	0.6	7.	9.	74.	18.	2.	128.	15.	9985.	5900.
SBS205	96.38	5.7	1.3	21.	8.	144.	53.	2.	54.	5.	9985.	5900.
SBS206	96.96	5.28	0.9	9.	16.	30.	28.	4.	74.	5.	9980.	5860.
SBS207	97.53	6.29	0.9	23.	19.	31.	32.	4.	114.	10.	9865.	5700.
SBS208	92.74	4.87	1.2	15.	18.	20.	35.	3.	66.	5.	9840.	5820.
SBS209	97.61	5.6	0.7	4.	22.	9.	20.	5.	84.	5.	9825.	5975.
SBS211	92.63	4.77	1.6	4.	9.	7.	63.	3.	118.	20.	9775.	6180.
SBS212	97.64	5.58	1.	10.	16.	42.	26.	1.	79.	10.	9750.	6380.
SBS213	97.62	6.16	0.7	13.	15.	50.	50.	1.	110.	5.	9760.	6450.
SBS214	97.27	5.97	1.	2.	13.	316.	47.	1.	200.	5.	9700.	6520.
SBS215	97.75	5.71	0.7	6.	5.	5.	34.	2.	28.	5.	9690.	6500.
SBS216	96.82	5.51	0.7	8.	5.	3.	32.	1.	26.	10.	9690.	6400.
SBS217	97.8	5.	0.5	10.	4.	4.	21.	2.	25.	5.	9630.	6180.
SBS218	97.14	5.46	0.9	5.	9.	14.	30.	2.	97.	5.	9625.	6200.
SBS219	97.24	2.54	1.9	33.	5.	23.	102.	2.	51.	5.	9625.	6200.
SBS220	97.66	5.68	0.6	2.	8.	39.	23.	2.	112.	15.	9610.	6260.

SAMPLE NO.	TOT(%)	NA+K	AG	AS	B	CU	PB	SB	ZN	AU-PPB	. LINE	DEP
SBS221	97.57	5.53	0.4	5.	3.	8.	12.	2.	27.	5.	9595.	6305.
SBS222	97.72	0.99	1.6	13.	1.	12.	467.	3.	22.	5.	9595.	6305.
SBS223	97.57	5.38	0.5	1.	9.	48.	20.	3.	99.	5.	9600.	6350.
SBS224	96.73	6.37	0.9	4.	8.	57.	17.	2.	41.	5.	9575.	6390.
SBS225	96.74	6.46	1.	1.	15.	31.	24.	1.	81.	10.	9575.	6450.
SBS226	97.08	6.12	0.7	2.	14.	29.	18.	4.	76.	5.	9525.	6500.
SBS227	94.88	5.04	1.6	25.	8.	38.	47.	1.	31.	5.	9520.	6530.
SBS228	97.72	5.28	0.6	6.	4.	61.	52.	2.	23.	15.	9460.	6500.
SBS229	97.62	3.93	0.5	12.	13.	130.	18.	1.	55.	10.	10710.	6820.
SBS230	97.56	2.12	0.7	10.	3.	81.	22.	2.	33.	5.	10580.	6875.
SBS231	97.51	6.21	0.4	5.	3.	27.	9.	1.	21.	5.	10550.	6830.
SBS232	96.86	5.99	0.2	3.	3.	7.	8.	1.	31.	5.	10150.	6830.
SBS233	97.17	6.49	0.4	1.	3.	41.	21.	1.	77.	5.	10030.	6800.
SBS234	97.58	6.52	0.2	5.	1.	2.	6.	1.	26.	5.	9910.	6880.
SBS235	97.68	5.99	0.6	6.	2.	22.	20.	1.	29.	5.	9750.	6800.
SBS236	97.57	6.67	0.8	15.	2.	12.	84.	1.	121.	10.	9740.	6780.
SBS237	97.51	6.64	0.4	4.	1.	33.	23.	1.	60.	5.	9700.	6790.
SBS238	95.89	4.35	0.8	17.	17.	36.	19.	4.	87.	5.	9650.	6825.
SBS239	97.59	6.11	0.5	4.	5.	34.	14.	1.	47.	5.	9580.	6820.
SBS240	96.37	5.31	0.4	3.	2.	2.	9.	1.	21.	5.	9375.	6820.
SBS241	97.78	4.92	0.3	5.	2.	7.	60.	1.	71.	5.	9680.	6770.
SBS242	97.54	5.69	0.2	5.	1.	26.	21.	1.	80.	5.	9680.	6730.
SBS244	97.7	5.28	0.7	18.	13.	31.	13.	4.	94.	5.	9620.	6780.
SBS245	97.72	6.41	0.7	7.	2.	87.	15.	1.	25.	10.	9550.	6700.
SBS246	95.75	5.68	0.6	12.	13.	26.	13.	4.	75.	5.	9580.	6720.
SBS247	96.54	5.74	0.3	3.	1.	2.	8.	1.	14.	5.	9500.	6700.
SBS248	95.75	5.98	0.5	16.	11.	1.	19.	1.	61.	5.	9400.	6710.
SBS249	97.15	5.93	0.4	6.	2.	7.	26.	2.	33.	5.	9290.	6850.
SBS250	96.13	5.86	0.4	11.	5.	4.	11.	2.	51.	5.	9220.	6810.
SBS251	96.26	6.42	0.6	1.	2.	1.	14.	1.	43.	5.	9275.	6725.
SBS252	97.62	5.84	0.4	5.	2.	97.	6.	1.	21.	10.	9460.	6660.
SBS253	97.67	6.24	0.2	5.	1.	2.	9.	1.	14.	5.	9480.	6600.
SBS254	97.77	6.01	0.3	1.	3.	8.	5.	1.	22.	5.	9400.	6610.
SBS255	97.21	6.65	0.8	10.	2.	23.	27.	1.	20.	5.	9375.	6620.
SBS256	96.96	7.11	0.4	15.	16.	61.	9.	4.	93.	5.	9265.	6590.
SBS257	97.03	5.93	0.5	1.	8.	2.	14.	3.	70.	10.	9325.	6660.
SBS258	96.92	5.84	0.3	2.	1.	14.	7.	1.	24.	5.	9375.	6500.
SBS259	96.97	5.35	0.6	8.	1.	78.	18.	1.	20.	5.	9290.	6490.
SBS260	96.47	5.97	0.5	12.	8.	2.	14.	1.	49.	10.	9240.	6580.
SBS261	94.6	6.28	0.9	7.	3.	417.	33.	1.	42.	5.	9270.	6430.
SBS262	96.18	6.89	0.4	6.	1.	16.	8.	1.	14.	10.	9375.	6400.
SBS263	95.69	6.42	0.6	1.	7.	37.	13.	2.	48.	5.	9260.	6475.
SBS264	95.3	5.65	0.5	5.	3.	8.	11.	1.	32.	5.	9350.	6480.
SBS265	95.49	6.13	0.3	9.	1.	72.	21.	1.	14.	5.	9450.	6400.
SBS266	96.07	4.47	0.9	18.	23.	280.	18.	6.	156.	10.	9480.	6420.
SBS268	96.32	6.38	0.3	1.	2.	21.	10.	1.	21.	5.	9450.	6300.
SBS269	97.53	6.88	0.2	1.	1.	68.	8.	1.	14.	5.	9460.	6330.
SBS270	96.03	6.34	0.5	2.	1.	183.	31.	1.	49.	10.	9325.	6200.
SBS271	96.51	6.06	1.1	1.	4.	158.	58.	2.	41.	25.	9340.	6210.
SBS272	96.94	6.56	0.9	5.	6.	9.	9.	2.	30.	5.	9310.	6160.
SBS273	97.59	7.06	0.2	2.	1.	16.	8.	1.	16.	5.	9325.	6290.
SBS274	92.31	5.53	0.9	19.	20.	21.	19.	4.	77.	10.	9500.	6540.
SBS275	97.45	5.5	0.9	6.	9.	38.	14.	1.	73.	5.	9910.	6080.
SBS276	96.59	5.94	1.	14.	11.	33.	14.	4.	93.	5.	9825.	6110.
SBS277	96.82	5.51	0.7	6.	11.	71.	12.	2.	111.	5.	9880.	6130.
SBS278	96.86	4.91	0.7	12.	11.	29.	25.	4.	79.	5.	9820.	6160.
SBS279	97.22	5.35	0.8	12.	12.	11.	13.	1.	80.	10.	9675.	6140.
SBS280	97.61	5.72	0.7	9.	9.	25.	14.	2.	80.	5.	9620.	6100.
SBS281	97.47	6.11	0.6	6.	11.	18.	8.	1.	99.	5.	9600.	6060.
SBS282	97.51	5.28	1.1	12.	12.	53.	23.	1.	132.	5.	9550.	6125.

SAMPLE NO.	TOT(%)	NA+K	AG	AS	B	CU	PB	SB	ZN	AU-PPB	LINE	DEF
SBS283	97.68	4.3	0.3	14.	17.	84.	9.	1.	152.	5.	9550.	6150.
SBS284	97.68	7.16	0.6	1.	5.	4.	5.	1.	27.	5.	9500.	6160.
SBS285	97.55	6.52 ¹	0.5	5.	3.	30.	29.	2.	46.	5.	9490.	6190.
SBS286	97.2	6.94	0.5	1.	9.	4.	8.	1.	47.	5.	9370.	6075.
SBS287	97.16	6.89	0.6	1.	5.	4.	10.	1.	35.	5.	9400.	6175.
SBS288	97.54	7.41	0.6	3.	5.	10.	7.	2.	39.	5.	9325.	6100.
SBS289	96.94	5.74	0.9	19.	16.	79.	17.	1.	98.	5.	9825.	7180.
SBS290	97.81	3.74	0.5	6.	7.	5.	5.	1.	30.	5.	9920.	7210.
SBS291	97.91	4.61	0.1	1.	8.	96.	6.	1.	53.	5.	9975.	7250.
SBS292	97.59	7.83	0.9	10.	16.	380.	13.	1.	78.	5.	9835.	7150.
SBS293	97.46	3.84	0.9	23.	32.	389.	19.	7.	181.	5.	9865.	7120.
SBS294	96.77	3.63	6.1	15.	20.	8445.	50.	4.	151.	5.	9835.	7150.
SBS295	97.52	4.46	0.8	20.	24.	103.	120.	6.	400.	5.	9680.	7099.
SBS297	96.68	4.68	1.	9.	13.	281.	18.	3.	71.	5.	9680.	7090.
SBS298	96.17	5.84	0.7	1.	4.	45.	19.	2.	47.	5.	9660.	7130.
SBS299	95.17	5.75	1.	18.	17.	3.	17.	4.	75.	5.	9680.	7150.
SBS300	95.71	5.86	0.6	1.	3.	1.	10.	2.	17.	5.	9300.	7080.
SBS301	97.39	6.34	0.5	3.	7.	1.	9.	3.	49.	5.	9275.	7150.
SBS302	97.73	6.05	0.1	1.	1.	2.	8.	1.	16.	10.	9260.	7220.
SBS303	97.24	5.84	0.7	5.	10.	138.	11.	1.	60.	5.	9625.	7210.
SBS304	97.6	4.84	0.4	11.	7.	597.	41.	5.	81.	5.	9560.	6680.
SBS305	97.77	7.43	0.3	1.	1.	7.	8.	1.	24.	5.	9525.	6680.
SBS306	97.52	5.91	0.1	6.	4.	14.	13.	2.	67.	5.	9610.	6500.
SBS307	97.25	5.45	0.6	1.	2.	3.	78.	1.	25.	5.	9680.	6430.
SBS308	97.04	4.78	1.3	19.	18.	345.	24.	2.	157.	10.	9650.	6400.
SBS309	97.71	5.03	0.1	6.	1.	4.	13.	1.	27.	10.	9610.	6450.
SBS310	97.62	5.95	0.4	1.	3.	67.	13.	1.	50.	5.	9630.	6350.
SBS311	97.16	5.07	1.	18.	18.	17.	22.	5.	151.	5.	9600.	6410.
SBS312	96.95	4.72	0.8	12.	19.	119.	24.	3.	107.	5.	9925.	6220.
SBS313	97.17	5.18	0.6	2.	6.	53.	16.	2.	91.	5.	9570.	6220.
SBS314	96.74	4.77	1.	3.	3.	23.	24.	1.	27.	5.	9540.	6260.
SBS316	96.82	5.76	0.8	8.	3.	36.	49.	2.	152.	25.	9490.	6250.
SBS317	96.82	6.47	0.7	1.	1.	6.	11.	1.	18.	5.	9375.	6190.
SBS318	97.17	6.68	0.8	11.	2.	2.	17.	1.	30.	5.	11050.	7550.
SBS319	97.61	7.28	0.2	11.	11.	18.	16.	1.	74.	5.	10970.	7510.
SBS320	97.48	8.32	0.4	7.	12.	12.	14.	1.	82.	5.	10920.	7550.
SBS321	95.36	5.42	1.	7.	2.	59.	26.	1.	25.	10.	11130.	7130.
SBS322	97.57	7.6	0.3	15.	13.	12.	21.	1.	80.	5.	11050.	7375.
SBS323	96.05	4.2	1.	12.	22.	2.	20.	6.	107.	5.	10625.	6410.
SBS324	96.28	5.24	1.	203.	16.	17.	29.	4.	72.	5.	10080.	6470.
SBS325	97.3	4.92	1.6	288.	23.	457.	99.	4.	263.	15.	10630.	6550.
SBS326	96.53	5.95	0.9	18.	6.	87.	23.	1.	85.	5.	10700.	6560.
SBS327	96.88	6.27	0.4	75.	2.	10.	11.	1.	27.	5.	9930.	5980.
SBS328	93.6	5.	0.8	22.	15.	24.	16.	3.	114.	15.	9925.	6030.
SBS329	97.35	5.5	0.6	21.	19.	111.	214.	4.	755.	5.	9925.	6050.
SBS330	97.17	5.48	1.4	1.	11.	202.	45.	4.	87.	10.	9855.	6080.
SBS331	97.14	5.06	0.8	14.	8.	52.	19.	2.	114.	5.	9875.	6050.
SBS332	97.49	4.85	0.7	13.	10.	33.	31.	2.	101.	5.	9820.	6060.
SBS333	94.09	5.16	1.2	14.	3.	10.	33.	2.	37.	5.	9850.	6010.
SBS334	96.69	6.49	0.6	8.	1.	6.	11.	1.	39.	10.	9540.	5975.
SBS335	97.6	6.41	0.6	20.	1.	53.	13.	1.	18.	5.	9480.	5970.
SBS336	97.58	5.44	1.1	9.	1.	131.	22.	2.	34.	5.	9480.	6075.
SBS337	97.66	6.26	0.7	16.	3.	9.	19.	1.	22.	5.	9480.	6010.
SBS338	97.77	6.36	0.4	5.	1.	8.	14.	1.	13.	5.	9460.	5980.
SBS339	97.59	5.32	0.5	1.	5.	36.	16.	1.	64.	10.	9440.	5925.
SBS340	97.42	6.54	0.4	1.	2.	29.	12.	1.	42.	5.	9360.	5975.
SBS341	96.47	6.91	0.7	13.	7.	3.	12.	3.	39.	5.	9350.	6010.
SBS342	97.69	5.98	0.1	4.	1.	5.	5.	1.	14.	5.	9300.	6000.
SBS343	97.28	6.28	0.4	2.	1.	10.	12.	1.	20.	10.	9325.	5900.
SBS344	97.11	6.41	0.5	1.	11.	2.	12.	3.	52.	5.	9390.	5900.

SAMPLE NO.	TOT(%)	NA+K	AG	AS	B	CU	PB	SB	ZN	AU-PPB	LINE	DEP
SBS345	97.55	6.24	0.3	1.	4.	4.	10.	1.	53.	5.	9510.	5890.
SBS346	97.48	4.81	0.7	9.	14.	43.	36.	5.	218.	5.	9890.	5930.
SBS347	97.05	4.73	0.7	18.	15.	86.	34.	3.	231.	5.	9770.	5785.
SBS349	96.72	5.52	1.	12.	1.	12.	26.	2.	20.	5.	9680.	5710.
SBS350	97.42	5.21	0.6	10.	24.	73.	50.	5.	287.	5.	9650.	5780.
SBS351	97.63	3.89	4.8	37.	2.	20.	456.	3.	988.	20.	9625.	5700.
SBS352	96.68	6.	0.7	11.	1.	17.	17.	1.	23.	5.	9525.	5690.
SBS353	97.37	6.31	0.5	1.	14.	16.	16.	1.	85.	5.	9400.	5710.
SBS354	95.91	6.63	0.8	5.	2.	2.	15.	1.	24.	5.	9325.	5720.
SBS355	93.54	5.13	1.2	13.	10.	137.	27.	1.	167.	5.	9615.	5820.
SBS356	96.62	5.83	0.8	5.	15.	33.	15.	1.	123.	5.	9835.	7200.
SBS357	93.62	4.99	1.1	11.	9.	27.	19.	4.	53.	5.	9750.	7290.
SBS358	94.65	5.5	1.1	1.	3.	167.	19.	2.	43.	5.	9675.	7250.
SBS360	95.67	5.89	0.7	1.	3.	21.	8.	1.	22.	5.	9535.	7375.
SBS361	97.02	6.79	0.7	6.	4.	5.	4.	1.	19.	5.	9500.	7475.
SBS362	96.82	6.08	0.9	9.	4.	14.	12.	2.	23.	5.	9410.	7800.
SBS363	97.02	4.81	0.9	16.	13.	15.	16.	3.	84.	10.	10580.	7280.
SBS364	95.68	5.32	1.	5.	14.	17.	13.	1.	63.	5.	10550.	7320.
SBS365	97.1	5.62	0.8	17.	11.	33.	16.	1.	88.	5.	9900.	5650.
SBS5040			0.6	3.	2.	42.	14.	1.	30.	5.		
SBS5043			1.6	11.	5.	4.	6.	1.	10.	5.		
SBS*243			0.5	12.	1.	14.	24.	1.	32.	20.		
SBS*267			1.7	11.	7.	67.	104.	1.	77.	10.		
SBS*296			2.	8.	11.	243.	52.	2.	61.	5.		
SBS*315			0.4	5.	3.	22.	22.	1.	19.	5.		
SBS348			7.9	9.	1.	9142.	32.	15.	625.	15.	9770.	5785.
SBS*359			0.5	5.	2.	99.	11.	1.	53.	5.		

COMPANY: MINNOVA INC.

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: 325

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

FILE NO: 7-1377

ATTENTION: MIKE GRAY

(604)980-5814 OR (604)988-4524

* TYPE ROCK GEOCHEM *

DATE: SEPT 22, 1987

(VALUES IN PPM)	AS	AS	B	CU	PB	SR	ZN	AU-PPB
SBS-100	4.8	3	3	89	78	3	29	20
SBS-101	1.6	2	4	142	25	1	36	5
SBS-102	1.5	4	16	13	26	5	79	5
SBS-103	.9	2	7	1598	20	4	76	15
SBS-104	1.3	21	8	28	33	1	66	5
SBS-105	.8	18	18	105	22	4	79	10
SBS-106	1.0	15	7	12	19	1	41	5
SBS-107	.4	8	2	4	7	1	13	5
SBS-108	1.0	11	1	50	22	2	19	30
SBS-109	.8	19	21	93	21	6	115	10
SBS-110	.4	7	3	23	10	1	29	5
SBS-111	.9	8	3	97	19	1	26	10

RECEIVED
 SEP 25 1987
 No. 16

MIN-EM LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-1377

MIKE GRAY

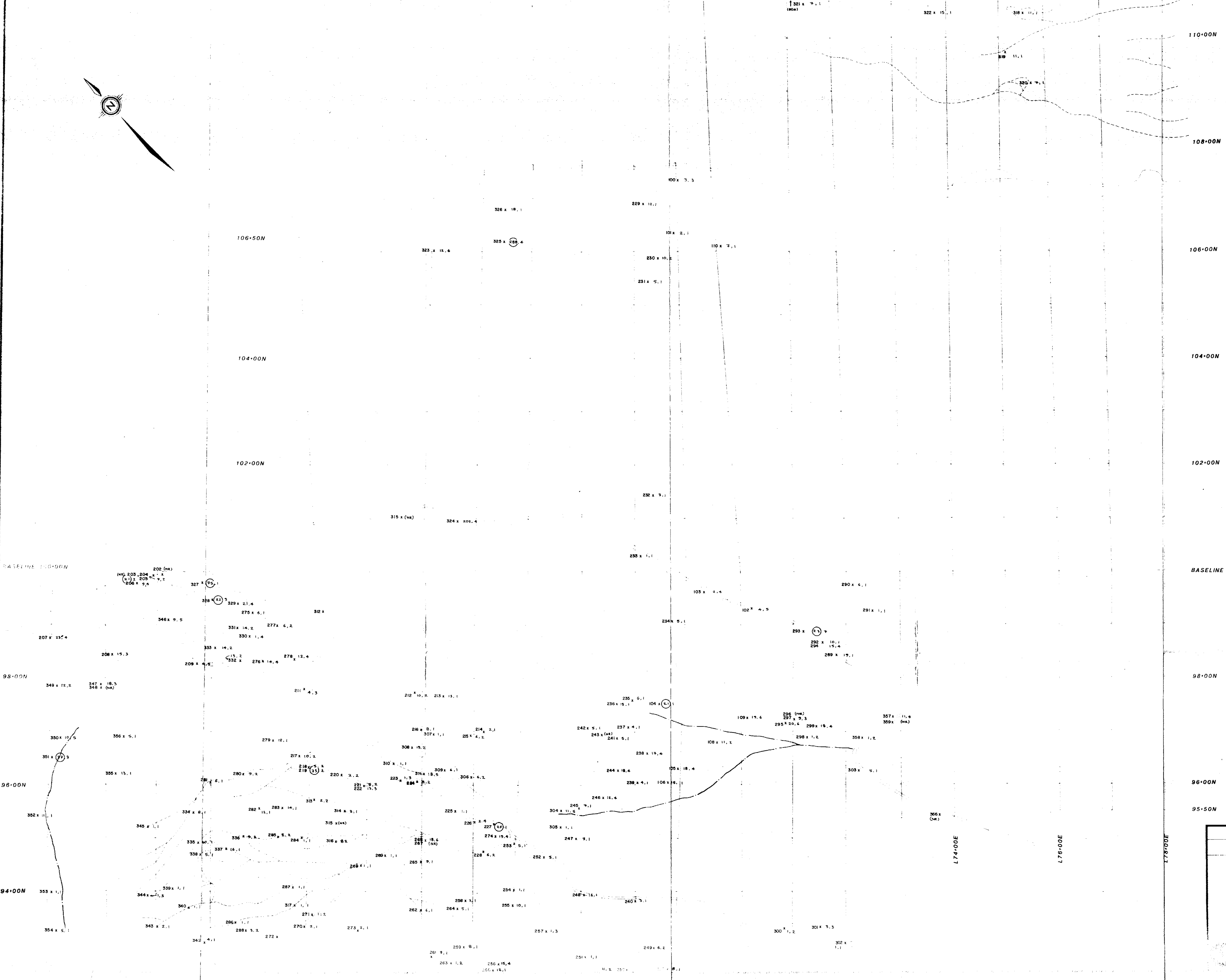
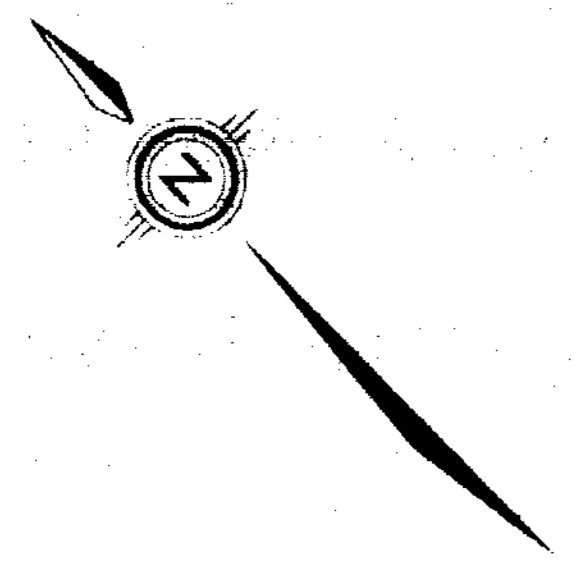
(604)980-5814 OR (604)988-4524

* TYPE ROCK GEOCHEM *

DATE: SEPT 22, 1987

VALUES IN %	AL2O3	BA	CAD	FE2O3	K2O	MGO	MNO2	NA2O	SI02	SR	TIO2	ZR	TOT(%)
SBS-100	16.37	.103	2.00	4.33	3.53	.67	.15	3.85	64.29	.01	.44	.019	95.75
SBS-101	15.74	.103	1.39	4.60	3.21	.73	.14	3.87	66.06	.01	.46	.014	96.41
-102	16.87	.075	2.11	7.59	1.89	1.81	.13	4.52	59.74	.02	.75	.012	95.52
SBS-103	13.26	.125	.01	5.98	3.58	.75	.14	.25	73.42	.01	.14	.005	97.64
SBS-104	16.40	.071	3.53	7.12	2.94	3.16	.27	2.76	59.19	.01	.59	.012	96.06
SBS-105	16.81	.137	1.22	6.19	3.32	3.09	.17	2.81	61.58	.01	.87	.016	96.23
SBS-106	15.30	.070	2.80	4.99	2.90	2.00	.20	3.24	64.46	.01	.47	.015	96.45
SBS-107	14.91	.079	1.30	1.79	2.50	.57	.06	4.81	70.44	.01	.26	.021	96.75
SBS-108	14.18	.083	2.39	3.28	3.04	1.13	.24	3.18	67.92	.01	.29	.018	95.76
SBS-109	16.55	.101	.76	7.76	3.24	3.59	.18	1.77	62.89	.01	.75	.016	97.61
SBS-110	20.05	.164	.12	2.92	4.85	.66	.08	3.53	64.97	.01	.23	.028	97.60
SBS-111	14.68	.103	2.49	4.45	3.16	.75	.17	3.58	65.56	.02	.36	.015	95.32

RECEIVED
 SEP 25 1987
 Ans'd



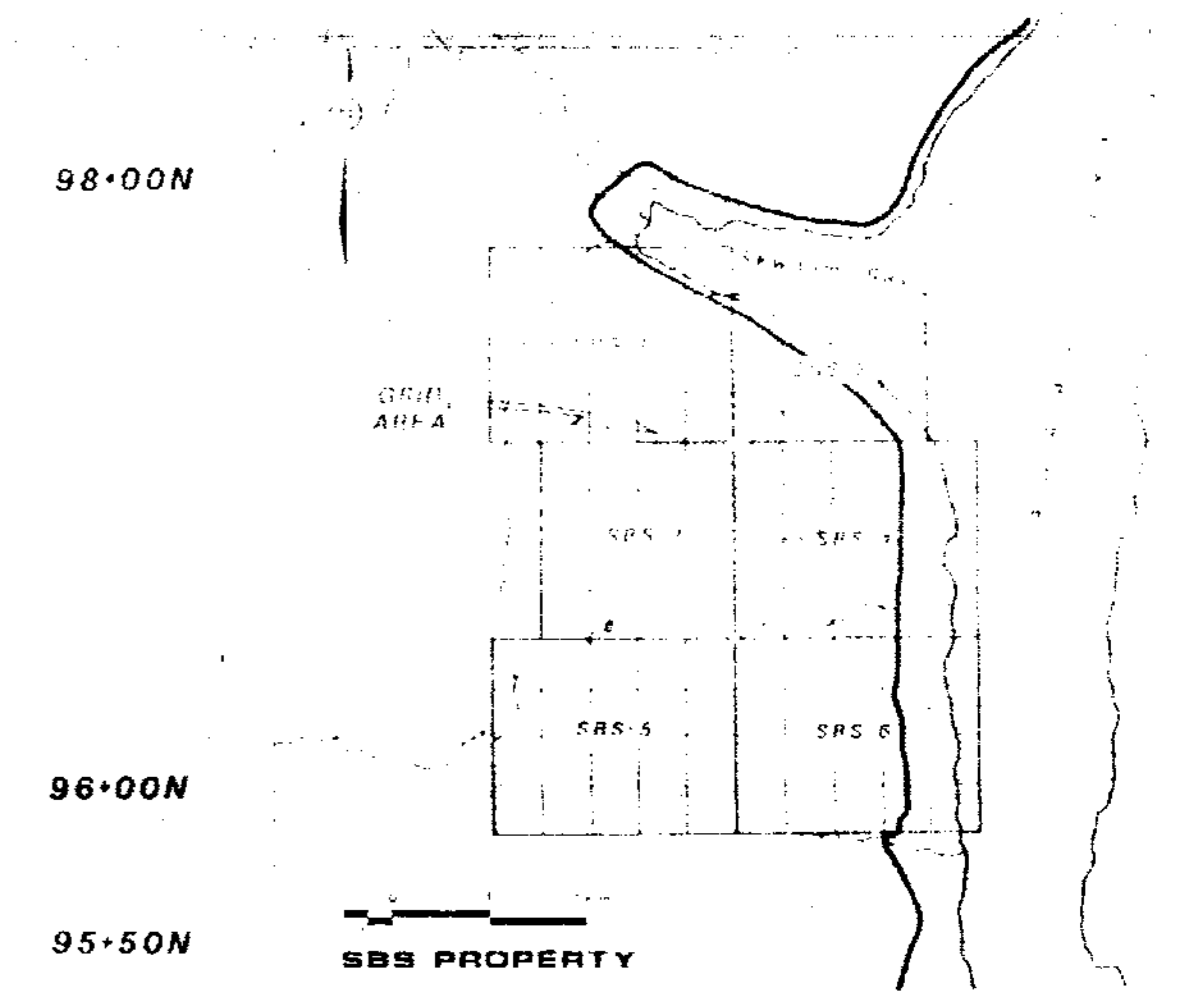
110-00N
108-00N
106-00N
104-00N
102-00N

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

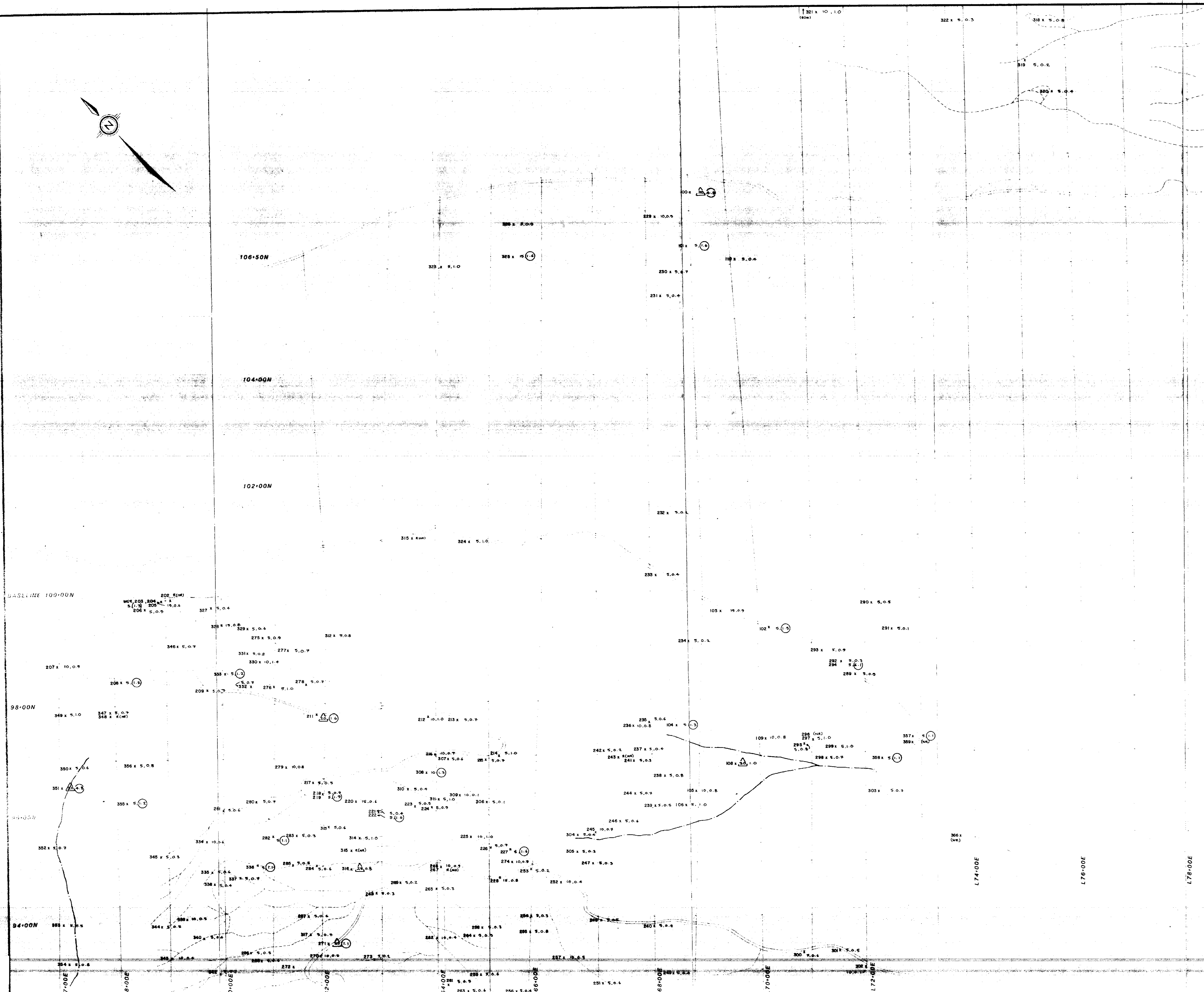
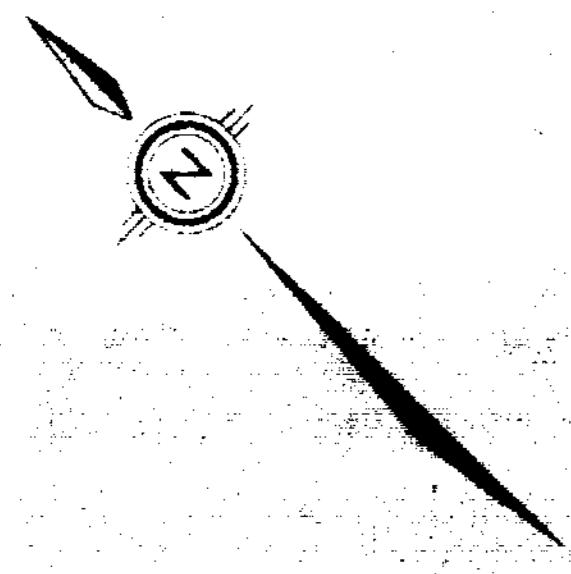
17,592

BASELINE 100-00N

290 x 6, 1
sample location As, Sb ppm
○ > 20 ppm As



MINNOVA Inc.
SBS PROPERTY
LITHOGEOCHEMISTRY
As, Sb ppm



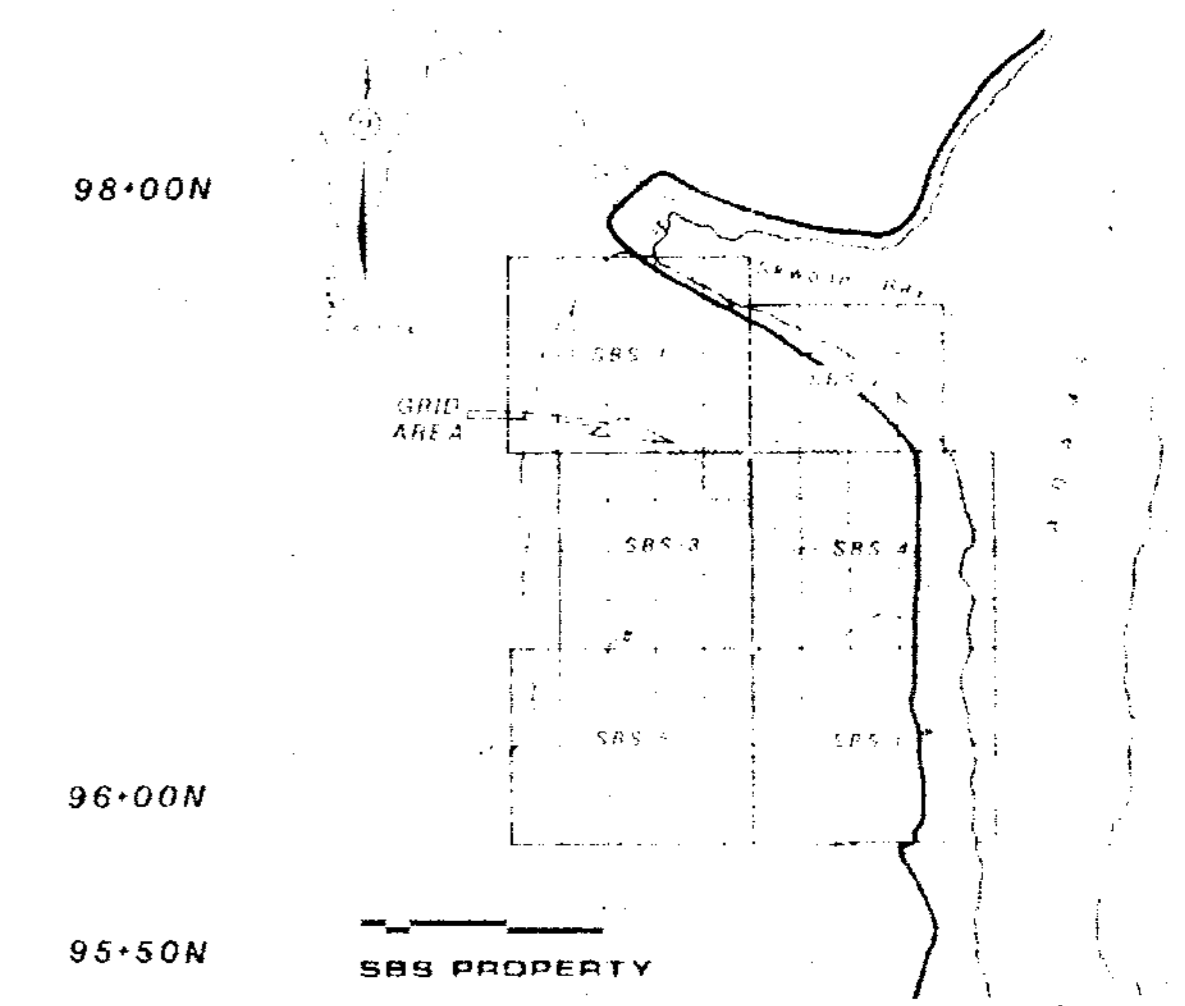
110-00N
108-00N
106-00N
104-00N
102-00N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,592

BASELINE 100-00N

290 x 5.0.5
sample location
Au ppb, Ag ppm
○ >1.0 ppm Ag
△ >15 ppb Au

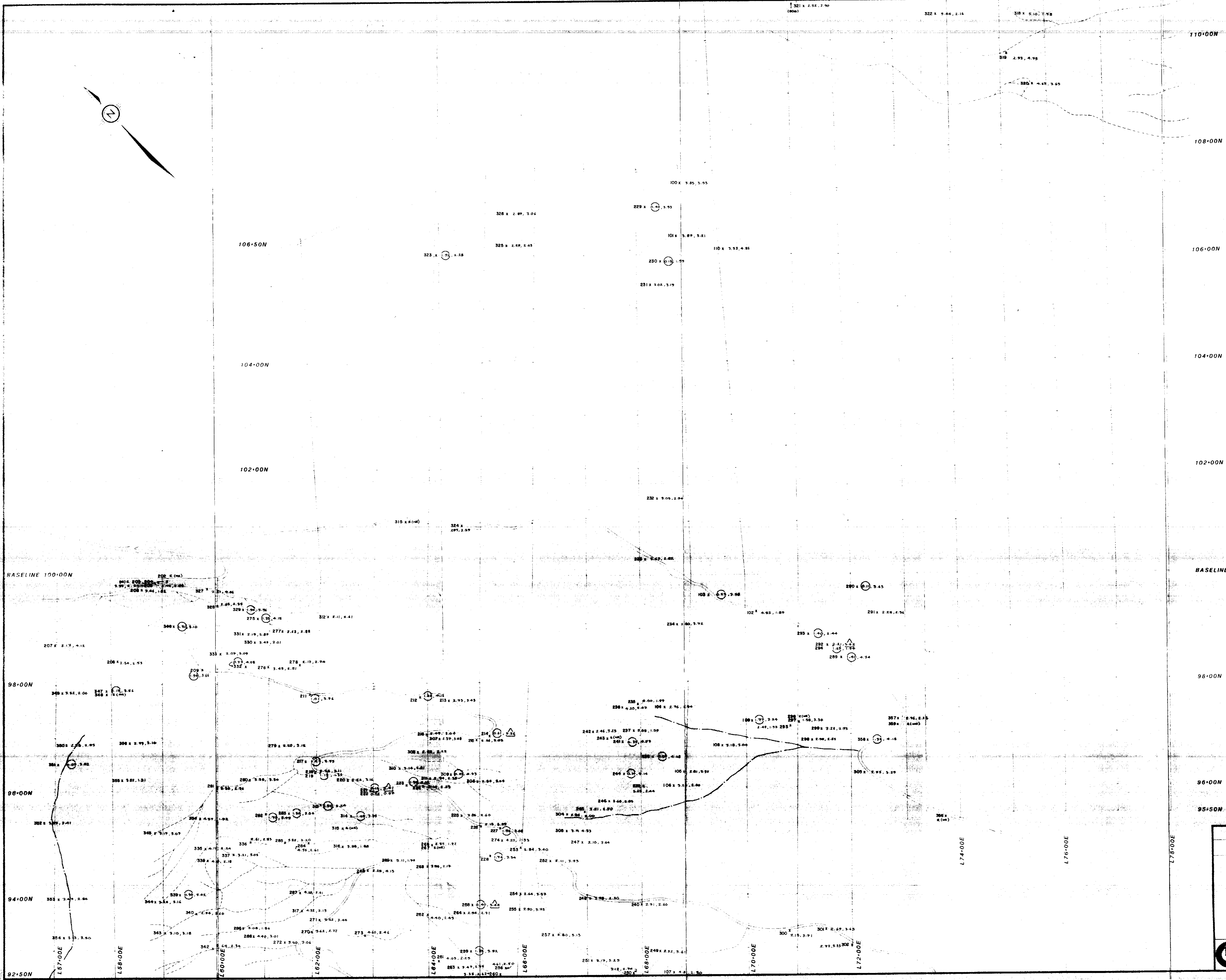
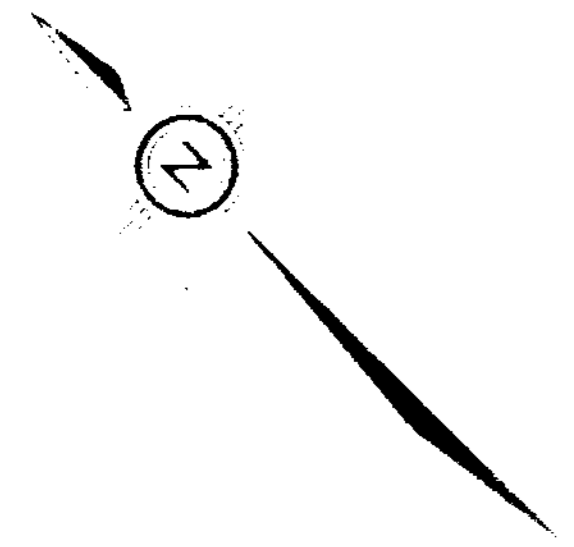


MINNOVA Inc.
SBS PROPERTY
LITHOGEOCHEMISTRY
Au ppb, Ag ppm

0 50 100 150 200 250m
 SCALE 1:2500

NTS, 82M/4W
 DRAWN BY IDP/ld
 DATE: JUNE 1998

5

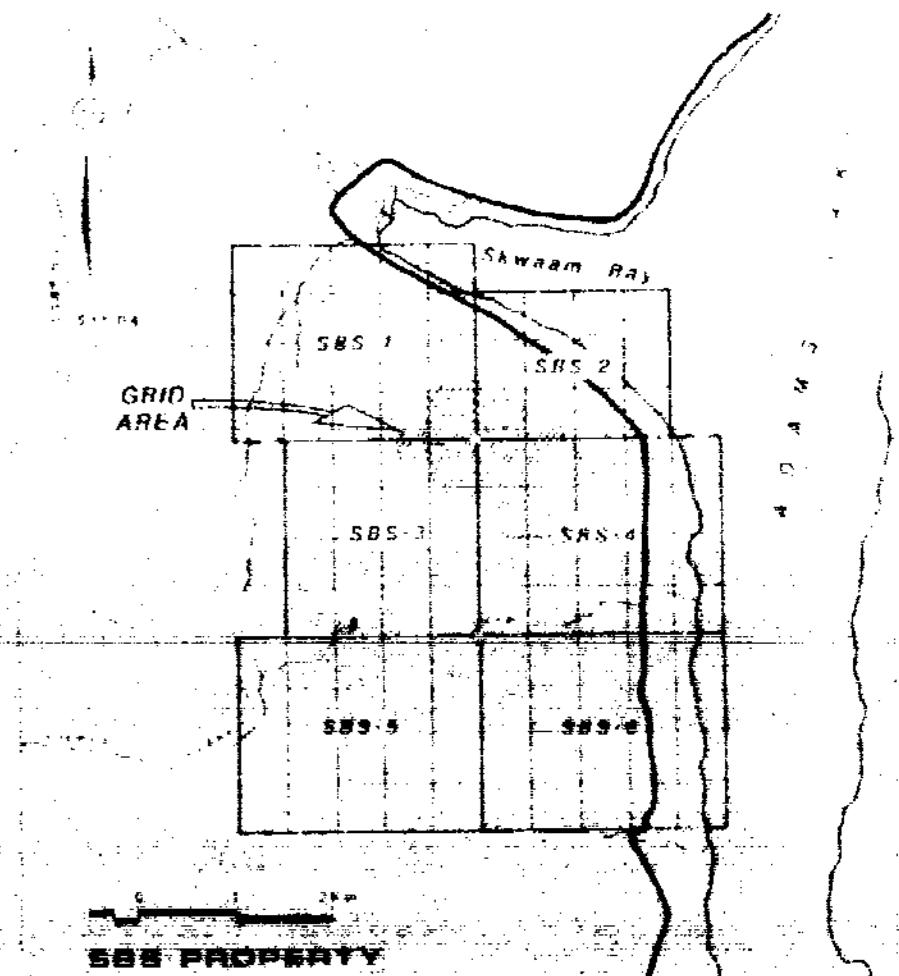


GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,592

BASELINE 100-00N

290 x 0.11, 3.45
sample location Na₂O, K₂O %
○ ≤ 2% Na₂O
△ ≥ 5.34% K₂O

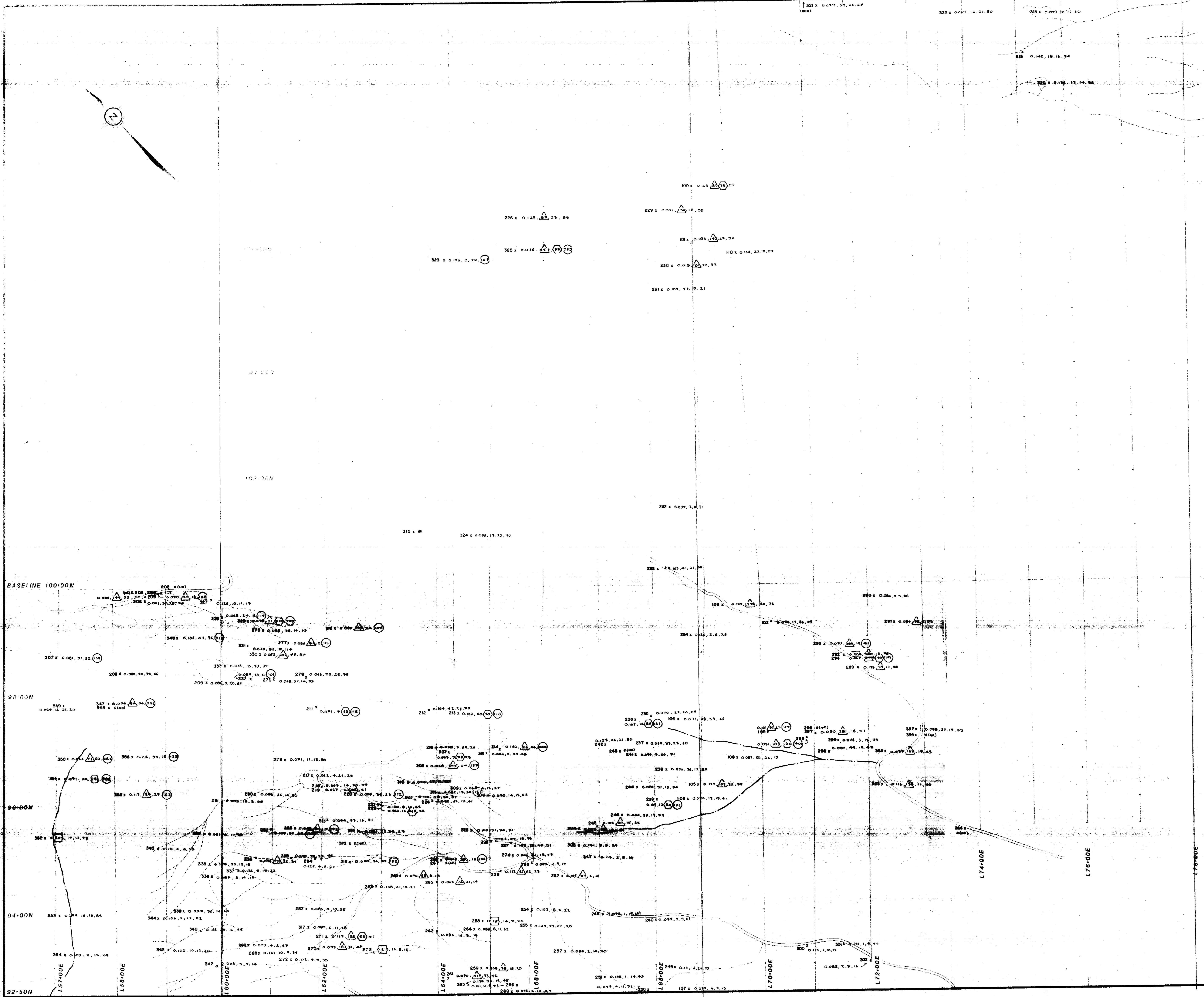
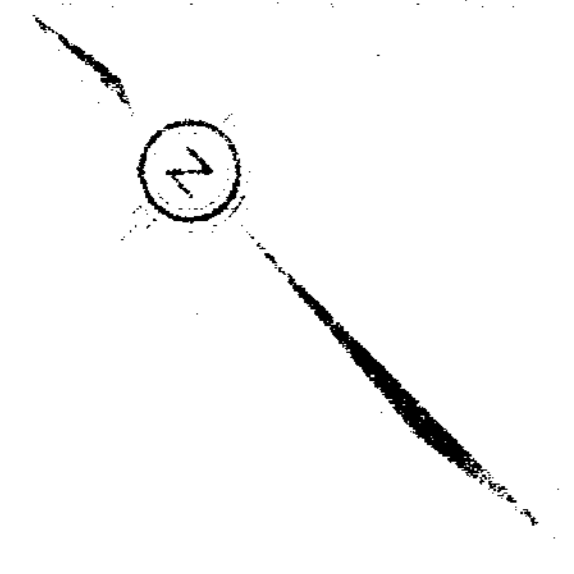


MINNOVA Inc.
SBS PROPERTY
LITHOGEOCHEMISTRY
Na₂O, K₂O %

0 50 100 150 200 250m
SCALE 1:2500

NIG 82M/4W	MAD
DRAWN BY IDP/sg	
DATE JUNE 1988	

3



110-00N

108-00N

106-00N

104-00N

102-00N

BASELINE 100-00N

98-00N

96-00N

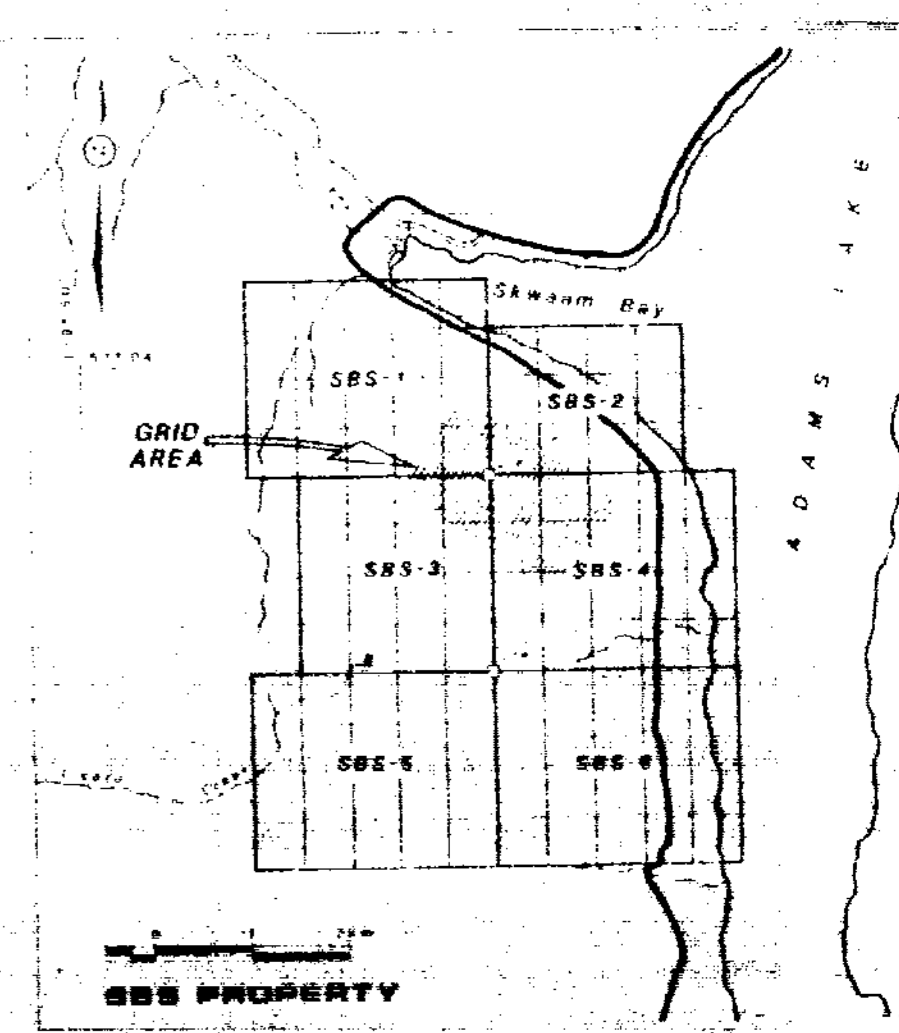
95-50N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,592

- ≥ 0.172% Ba
- △ ≥ 60 ppm Cu
- ≥ 50 ppm Pb
- ≥ 100 ppm Zn

200 x 0.081, 5, 5, 90
sample location Ba %, Cu, Pb, Zn ppm

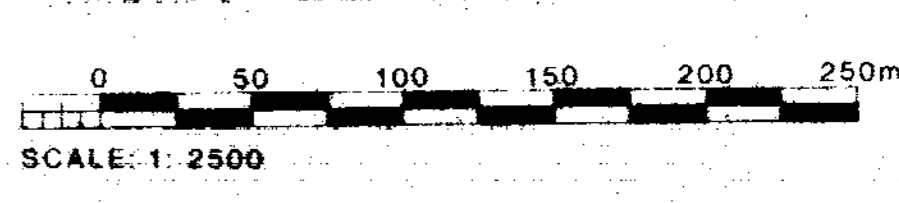


MINNOVA Inc.

SBS PROPERTY

LITHOGEOCHEMISTRY

Ba %, Cu, Pb, Zn ppm



	N.T.S. 82M/4W	MAP
	DRAWN BY: IDP/sg	4
	DATE: JUNE 1988	

321 x 68.25, 0.31, 3.60, 1.03
322 x 65.14, 0.72, 0.72, 2.00
318 x 65.47, 0.47, 4.00, 1.41

319 x 61.54, 0.70, 0.38, 2.24

320 x 59.52, 0.78, 0.47, 1.60

103-00N

106-00N

104-00N

107-00N

BASELINE 100-00N

98-00N

96-00N

93-00N

MINNOVA Inc.
SBS PROPERTY
LITHOGEOCHEMISTRY
SiO₂, TiO₂, CaO, MgO %

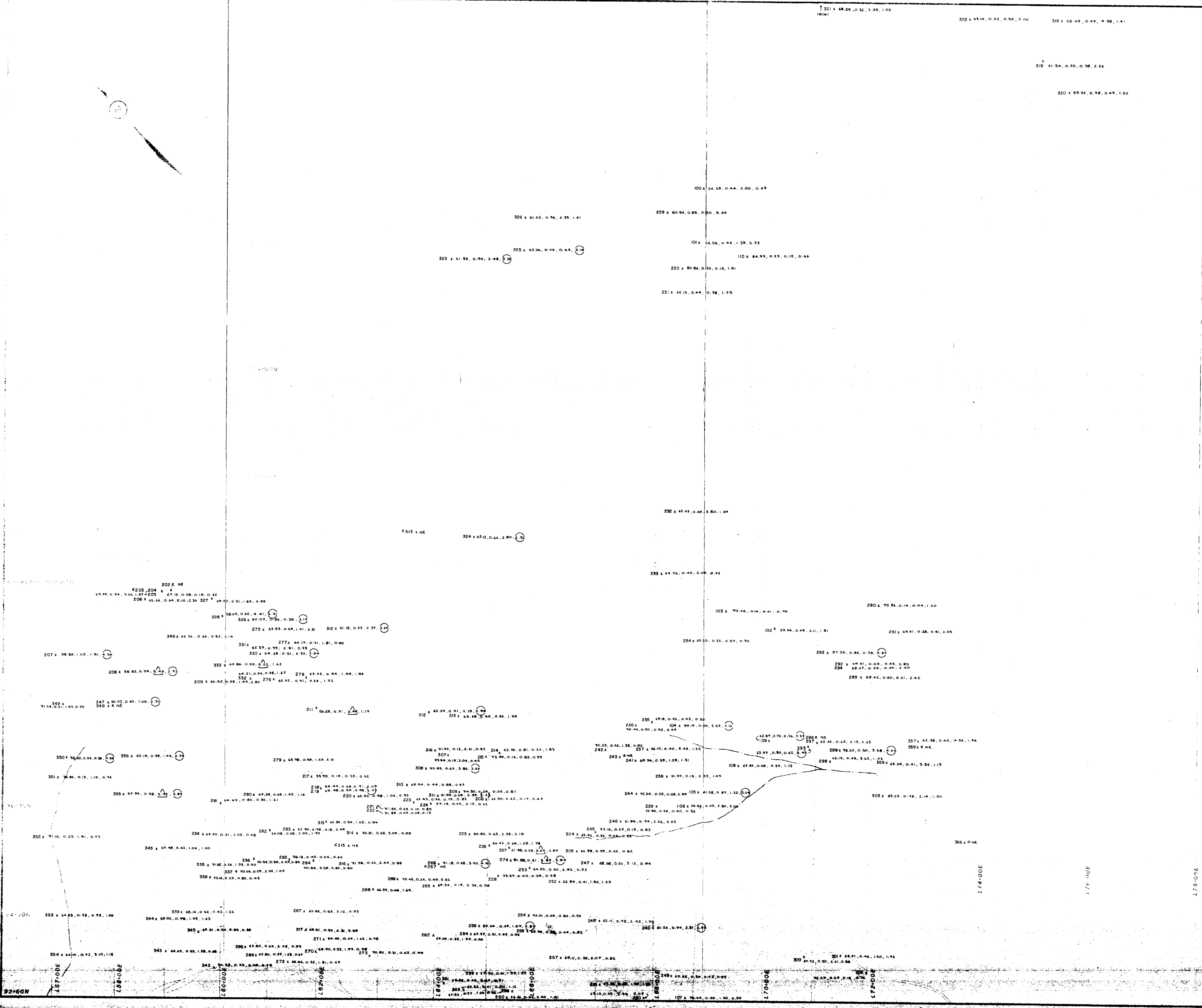
SCALE 1:2500

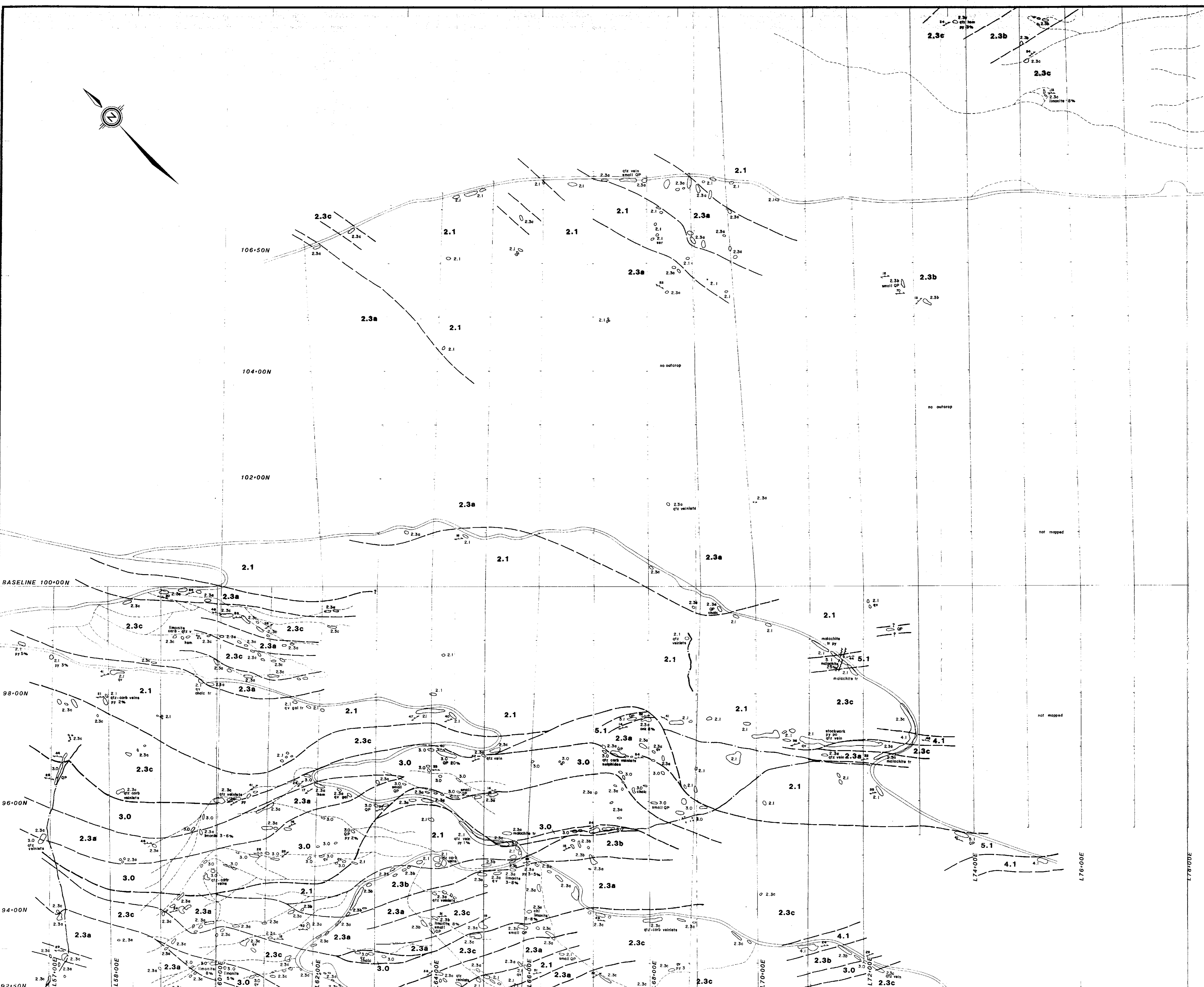
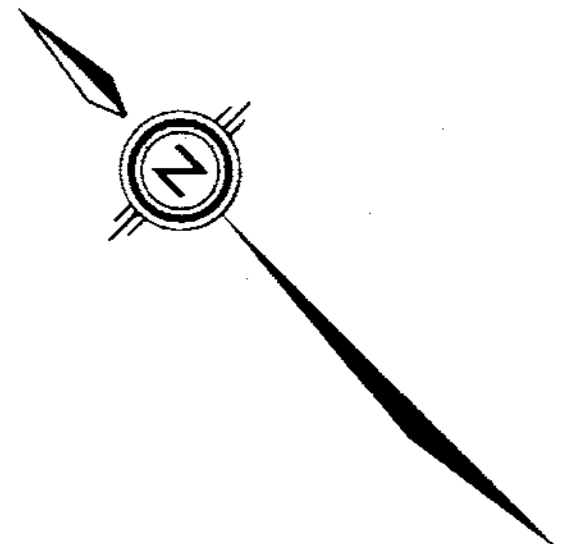
DATE JUNE 1988

2

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**
17,592

290 x 75.84, 0.14, 0.04, 1.20
sample location SiO₂, TiO₂, CaO, MgO
○ ≥ 2.5% MgO
△ ≥ 5.0% CaO





110+00N
108+00N
106+00N
104+00N
102+00N
98+00N
96+00N
94+00N
92+50N

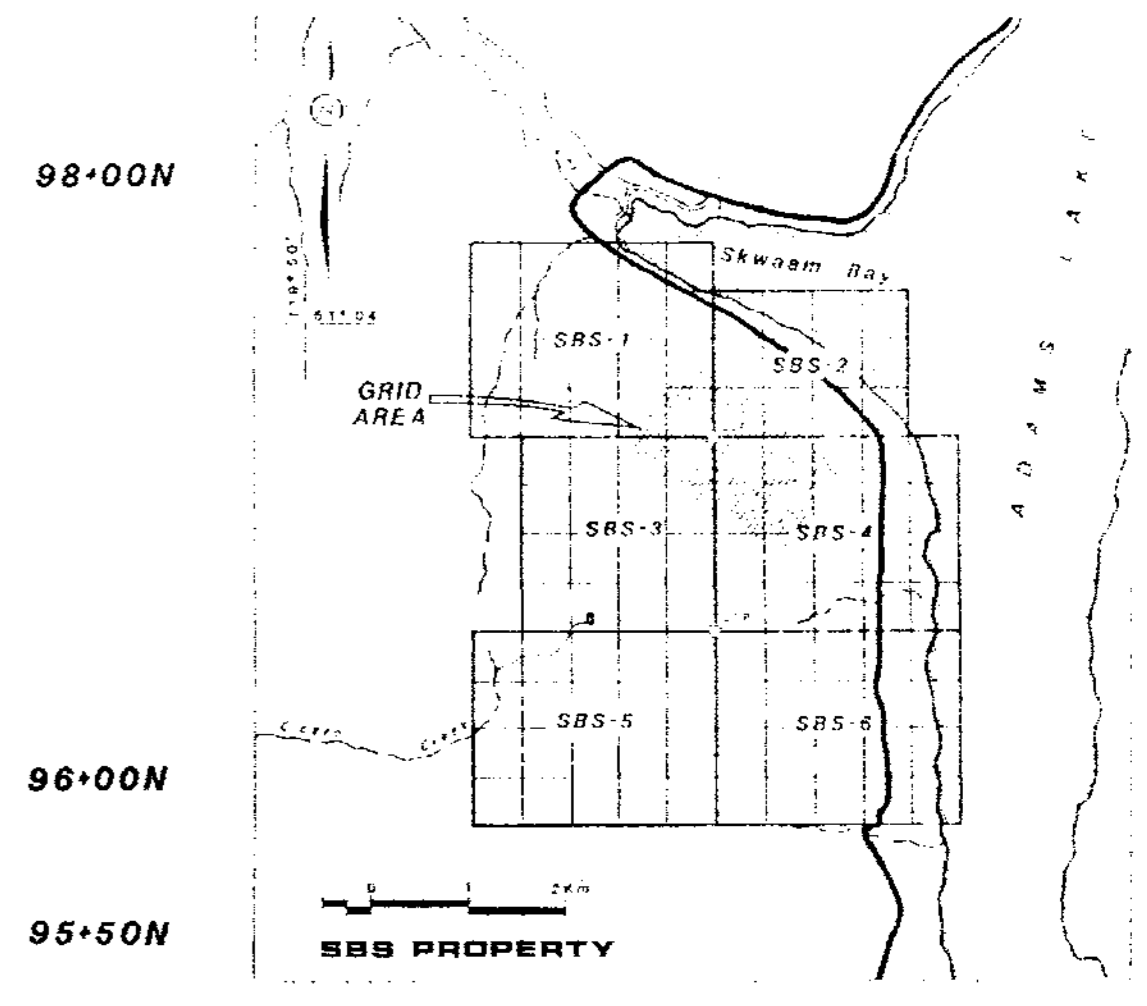
LEGEND

ROCK TYPE	ROCK TYPE TEXTURAL CODES
1 MAFIC VOLCANICS	1. Mafic flows 2. Pillowed flows, breccia 3. Tuff, ash, tuff (Fragmental/taconite, breccia, concretion)
2 INTERMEDIATE VOLCANICS	4. Lapidary tuff, lapilli and ash 5. Agglomerate (frag > 2.5mm) 6. Tuff breccia
3 FELSIC VOLCANICS	7. Dolerite flow (1/2 or 3 depending on professional fragment type)
4 MAFIC INTRUSIONS	1. Diorite 2. Gabbro 3. Basalt
5 FELSIC INTRUSIONS	1. GPP
6 SEDIMENTS	1. Chert, ribbon chert, sheet breccia 2. Chert with breccia 3. Quartzite, argillite, fgr wacke 4. Quartz pebble conglomerate 5. Argillite/phyllite 6. Limestone 7. Greenwacke (fgr qtz wacke) or greenwacke (conglomerate on chert matrix) 8. Limestone rubble breccia 9. Green wacke, gritic sandstone 10. Multicolored pebble conglomerate (with micaceous clasts, argillite clasts, etc.) 11. Siltstone 12. Dolomite 14. Interbedded argillite and siltstone 16. Interbedded tuff and sheet (fuzzy phyllite)

Outcrop
 Fault line
 Geological contact
 Creek
 Road

BASELINE 100+00N
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,592



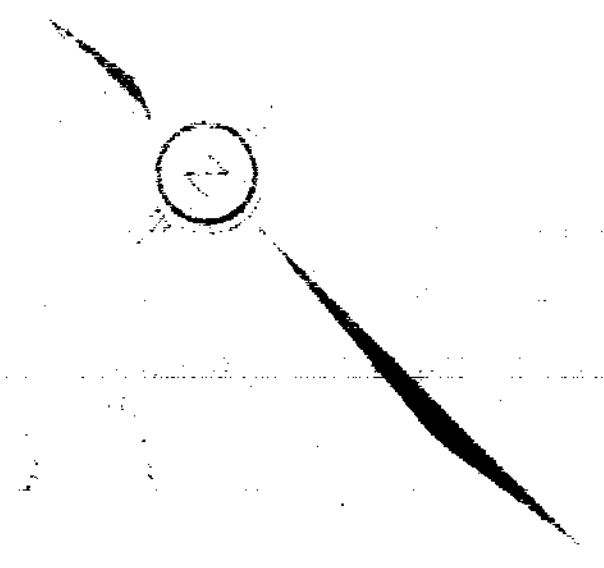
MINNOVA Inc.
SBS PROPERTY

- GEOLOGY -

0 50 100 150 200 250
SCALE: 1:2500

N.T.S. B2M/4W
DRAWN BY: IDP/sg
DATE: JUNE 1988

1



321 x 5.65, 0.27, 12.63, 0.015
 322 x 4.44, 0.07, 15.17, 0.019
 318 x 5.08, 0.10, 14.84, 0.041

110-00N

319 x 6.20, 0.16, 15.92, 0.012

320 x 6.35, 0.17, 16.12, 0.050

108-00N

300 x 4.35, 0.15, 14.37, 0.019

229 x 7.51, 0.23, 18.16, 0.005

10 x 4.68, 0.14, 15.76, 0.014

110 x 2.85, 0.08, 10.05, 0.029

230 x 5.78, 0.10, 16.37, 0.005

231 x 5.55, 0.10, 16.37, 0.022

106-00N

104-00N

104-00N

102-00N

102-00N

232 x 4.74, 0.22, 14.90, 0.015

233 x 4.11, 0.17, 15.18, 0.017

103 x 6.78, 0.19, 15.26, 0.005

290 x 3.20, 0.10, 15.45, 0.000

102 x 5.57, 0.15, 14.87, 0.012

291 x 6.42, 0.18, 15.85, 0.020

292 x 4.49, 0.07, 16.74, 0.031

294 x 5.90, 0.19, 13.19, 0.017

289 x 7.44, 0.29, 15.94, 0.014

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

17,592

BASELINE 100-00N

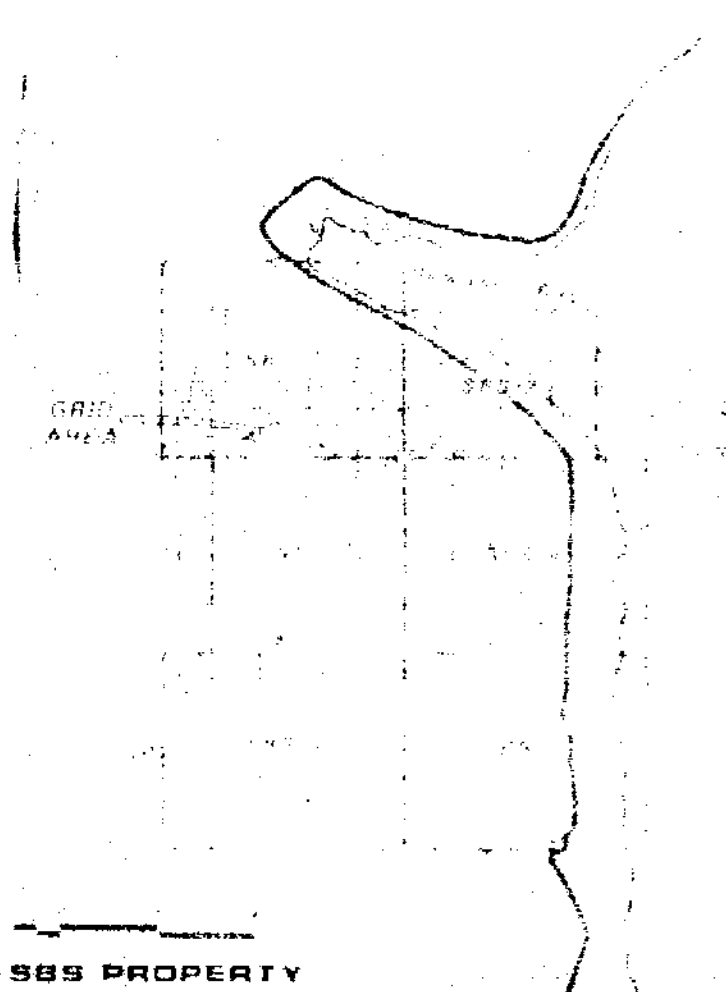
290 x 3.20, 0.10, 15.45, 0.000
 sample location Fe₂O₃, MnO₂, Al₂O₃, Zr %

○ > 0.325% MnO₂

98-00N

96-00N

94-00N



MINNOVA Inc.

SBS PROPERTY

LITHOGEOCHEMISTRY

Fe₂O₃, MnO₂, Al₂O₃, Zr %

0 50 100 150 200 250m
 SCALE 1:2500

	N.T. 82M/4W
	DRAWN BY IOP/sgc
	DATE JUNE 1988

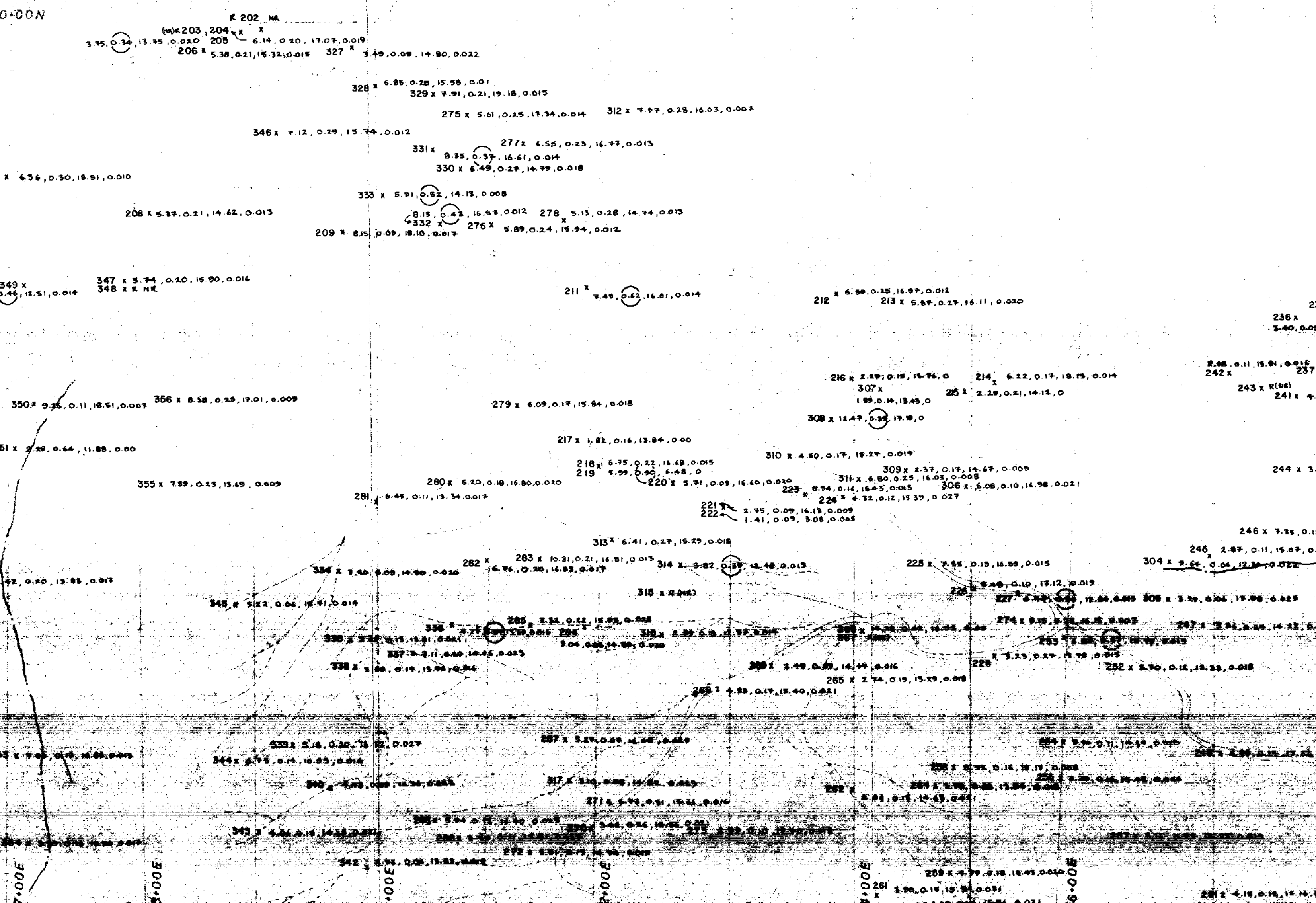
BASELINE 100-00N

98-00N

96-00N

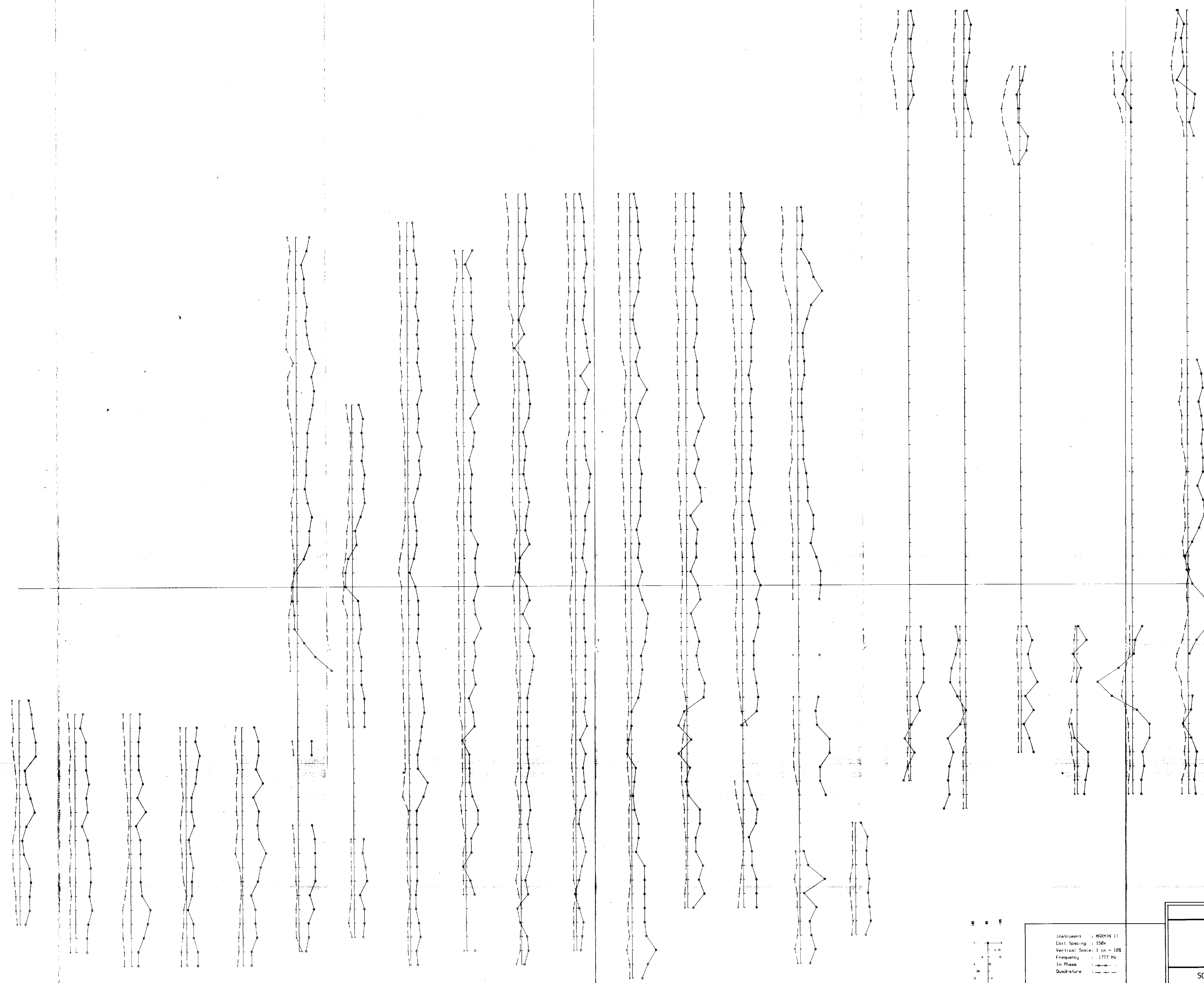
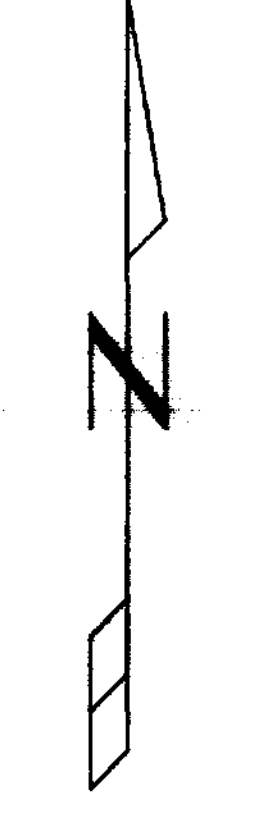
94-00N

92-00N



11000N
10900N
10800N
10700N
10600N
10500N
10400N
10300N
10200N
10100N
10000N
9900N
9800N
9700N
9600N
9500N
9400N
9300N

5700E
5800E
5900E
6000E
6100E
6200E
6300E
6400E
6500E
6600E
6700E
6800E
6900E
7000E
7100E
7200E
7300E
7400E
7500E
7600E
7700E
7800E

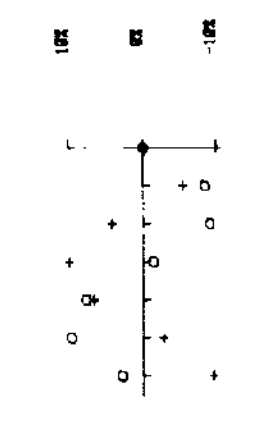


BASELINE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

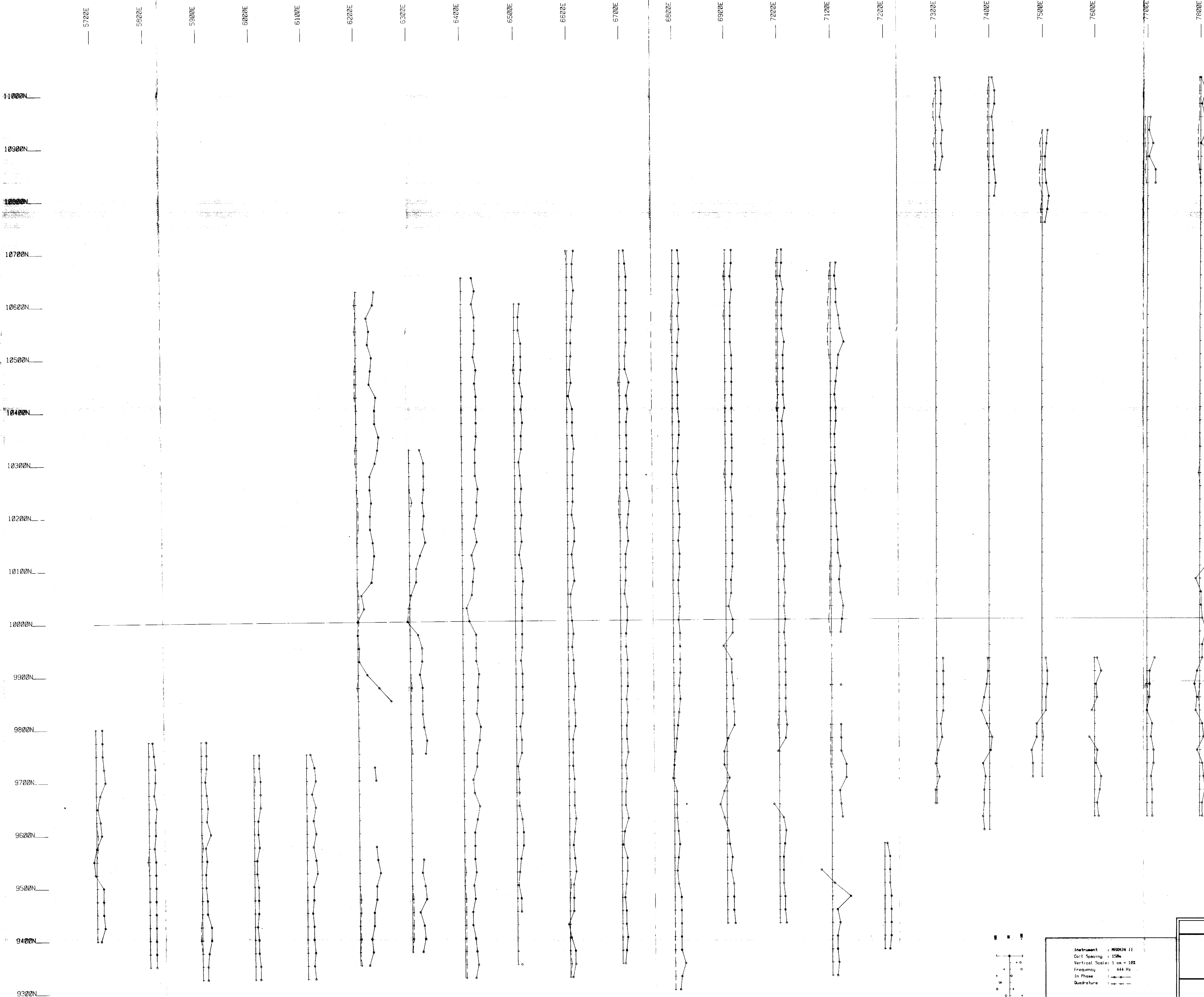
17,592

MAP 8



Instrument : MS04IN 11
Coil Spacing : 150m
Vertical Scale : 1 cm = 100m
Frequency : 1777 Hz
In Phase : - - - - -
Quadrature : - - - - -

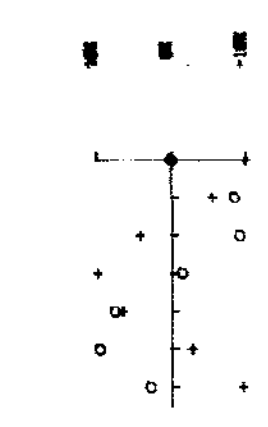
MINNOVA, INC.	
HLEM SURVEY	
FREQ. 1777 HERTZ	
PROJECT: 5B5	
BASELINE AZIMUTH : 90 Deg.	
SCALE = 1: 2500	DATE : 10/17/87
SURVEY BY : DR	NTS : 82M
FILE: H15B5	
M W H Geophysics Ltd.	



GEOLOGICAL BRANCH
ASSESSMENT REPORT

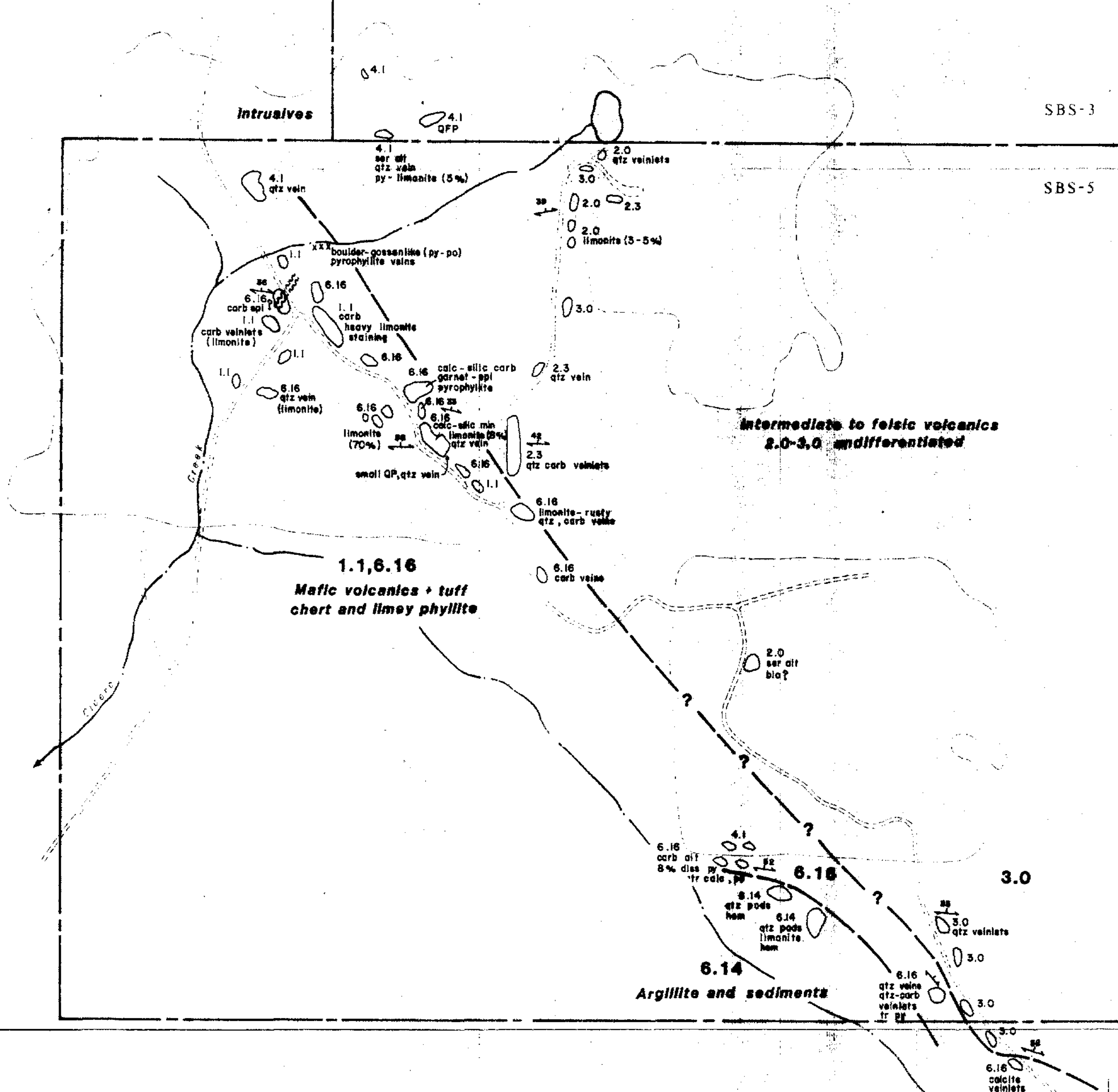
17,592

MAP 9



Instrument : PRODIG II
Coil Spacing : 150m
Vertical Scale: 1 cm = 100
Frequency : 444 Hz
In Phase : ————
Quadrature : - - - -
50m 20m 0m 50m 100m

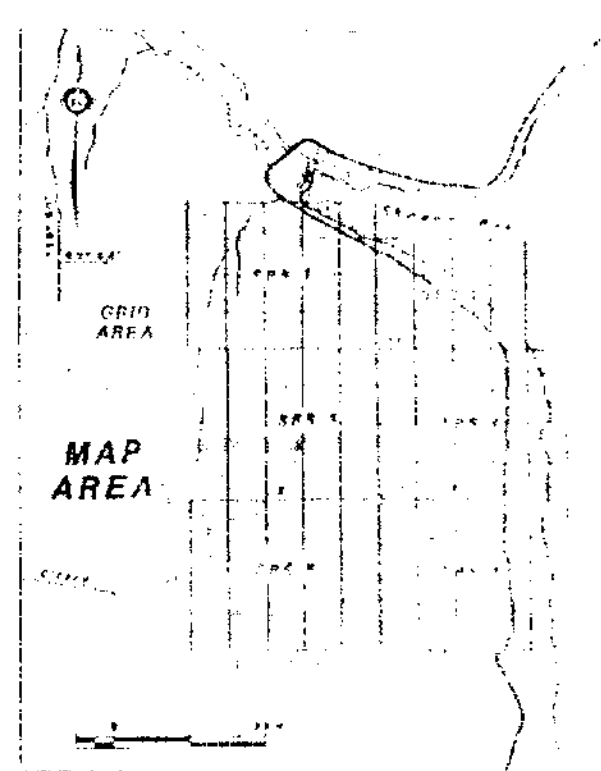
MINNOVA, INC.	
HEM SURVEY	
FREQ. 444 HERTZ	
PROJECT: SBS	
BASELINE AZIMUTH : 90 Deg.	
SCALE = 1: 2500	DATE : 10/17/87
SURVEY BY : DR	NT5 : 82M
FILE: L15B5	
M W H Geophysics Ltd.	



LEGEND

ROCK TYPE	ROCK TYPE TEXTURAL CODES
1 MAFIC VOLCANICS	1. Mafic flows
2 INTERMEDIATE VOLCANICS	2. Pillowed flows, breccia
3 FELSIC VOLCANICS	3. Tuff, ash tuff
4 MAFIC INTRUSIONS	4. Lapilli tuff, lapilli and ash
5 FELSIC INTRUSIONS	5. Agglomerate (frags > 8.4mm)
6 SEDIMENTS	6. Tuff breccia
	7. Debris flow (1.2 or 3 depending on predominant fragment type)
	1. Diorite
	2. Gabbro
	3. Diabase
	1. QFP
	1. Chert, ribbon chert, chert breccia
	2. Chert with breccia
	3. Quartzite argillite (gr wacke)
	4. Quartz pebble conglomerate
	5. Argillite/phyllite
	6. Limestone
	7. Greenwacke (gr qtz wacke) or greenwacke (contingent on chl content)
	8. Limestone cobble breccia
	9. Coarse wacke; grts; sandstone
	10. Multilithic pebble conglomerate (with micaceous clasts, argillite clasts, etc.)
	11. Siltstone
	12. Debris flow
	14. Interbedded argillite and siltstone
	16. Interbedded tuff and chert (limy phyllite)

	Outcrop		Outline of clearing
	Foliation		Creek
	Contact		Road



GEOLOGICAL BRANCH ASSESSMENT REPORT

17,592

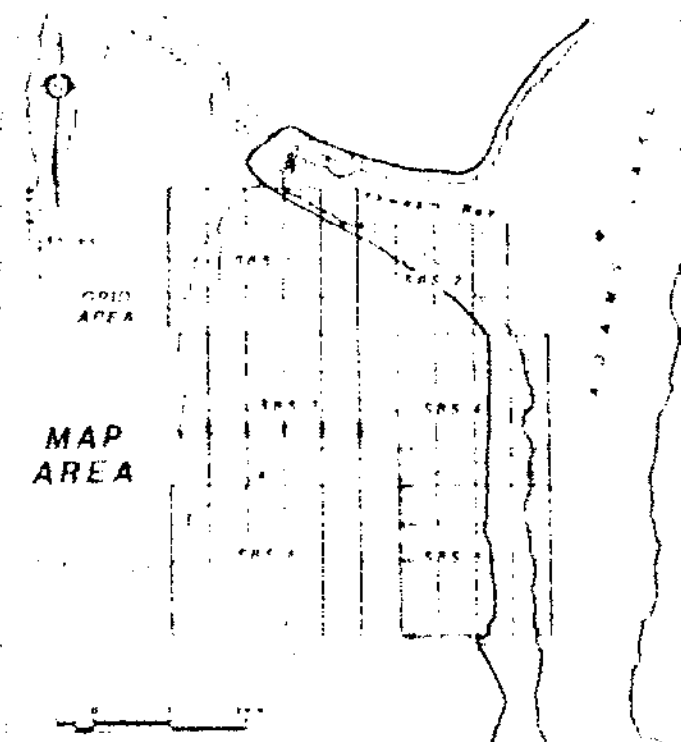
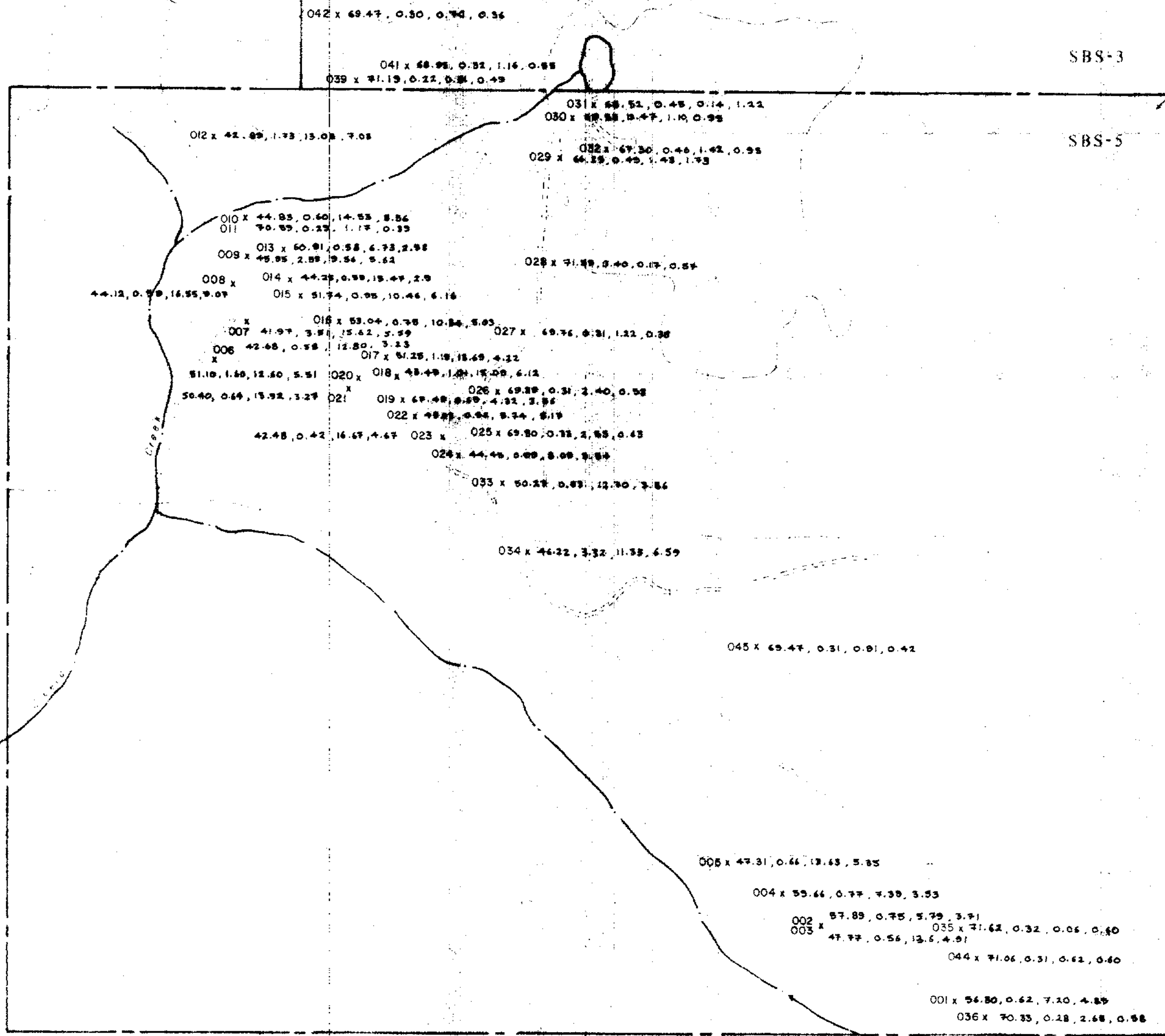
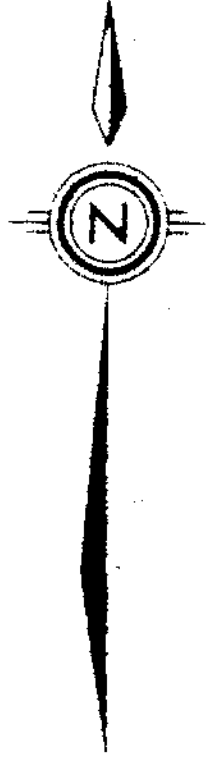
MINNOVA Inc.
SBS PROPERTY

SKARN ZONE

- GEOLOGY -



	N.T.S. 82M/4W	MAP.
	DRAWN BY: IDP/sg	10
	DATE: JUNE 1988	



001 x 56.80, 0.62, 7.10, 4.89
sample location SiO₂, TiO₂, CaO, MgO %

GEOLOGICAL BRANCH
ASSESSMENT REPORT

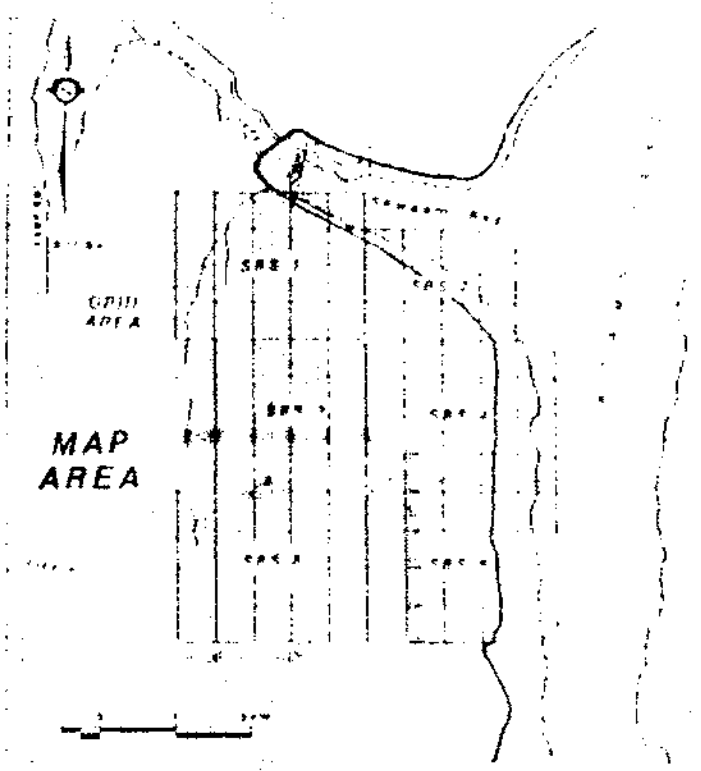
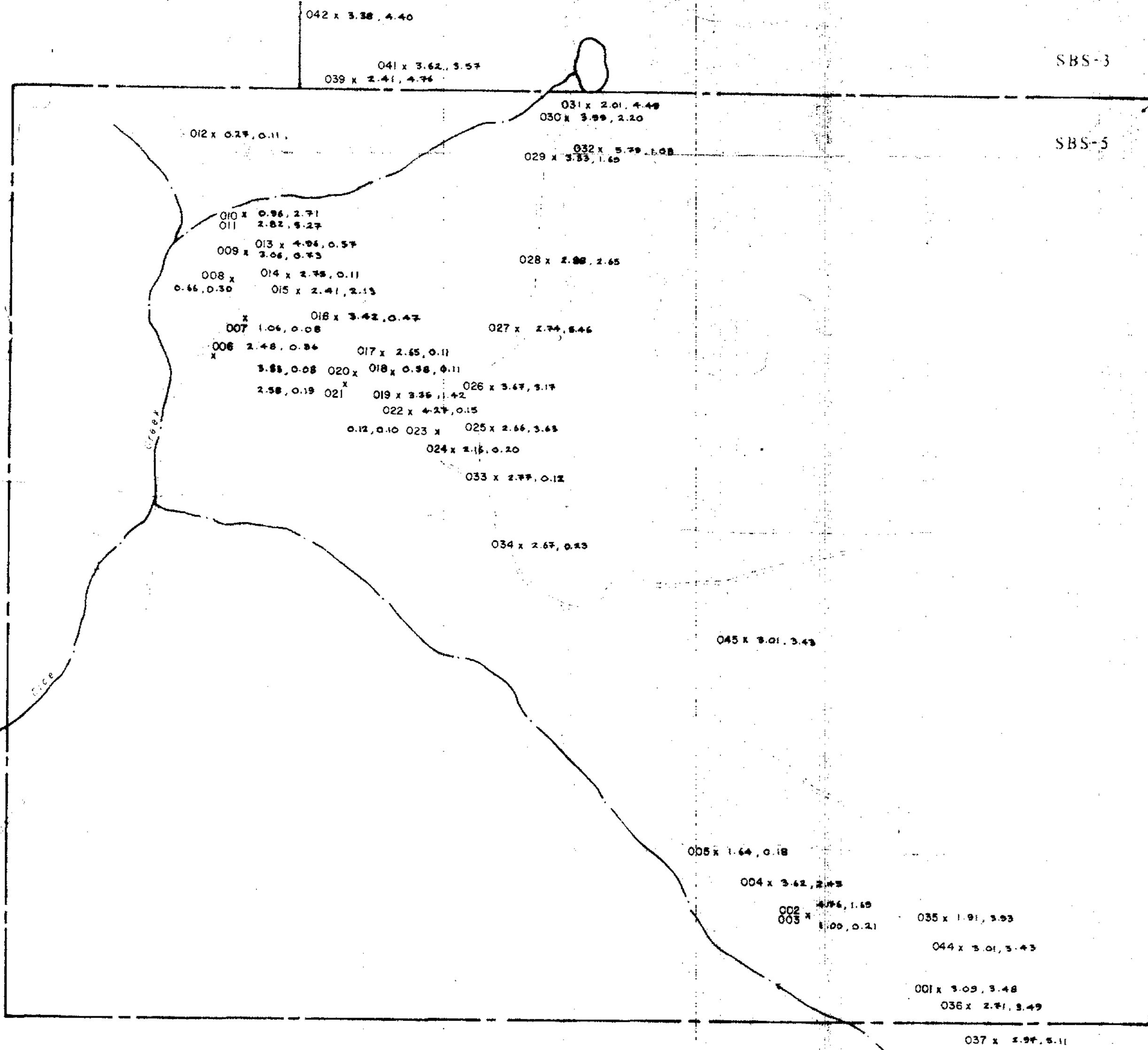
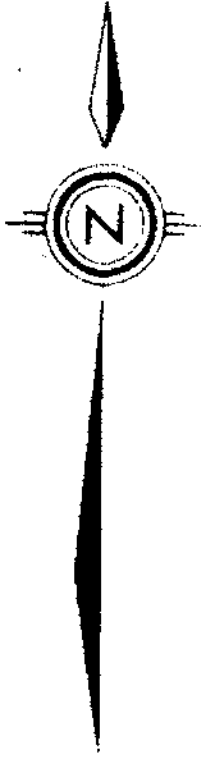
17,592

MINNOVA Inc.
SBS PROPERTY
SKARN ZONE
LITHOGEOCHEMISTRY

SiO₂, TiO₂, CaO, MgO %



	N 1 S 82M/4W	MAP
	DRAWN BY IDP/sg	11
	DATE JUNE 1988	

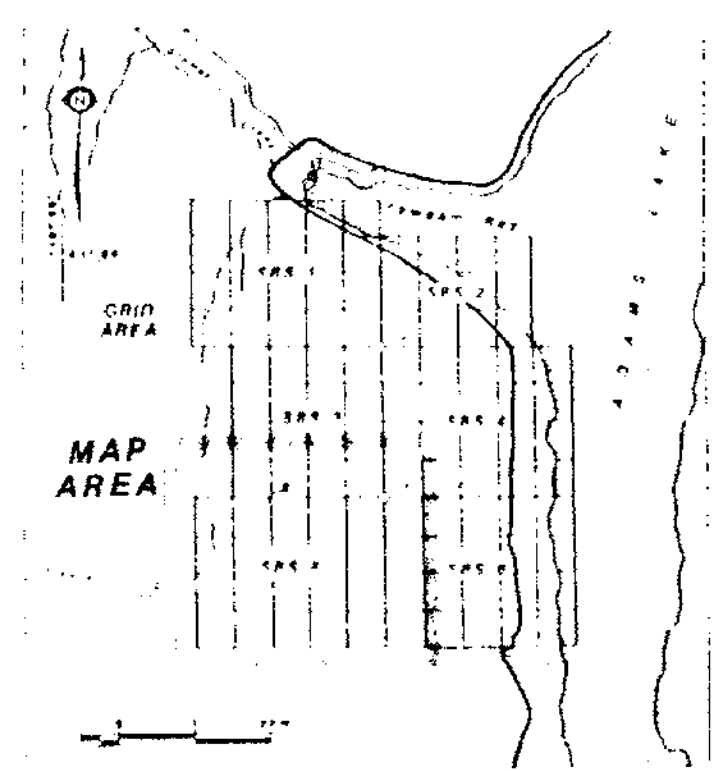
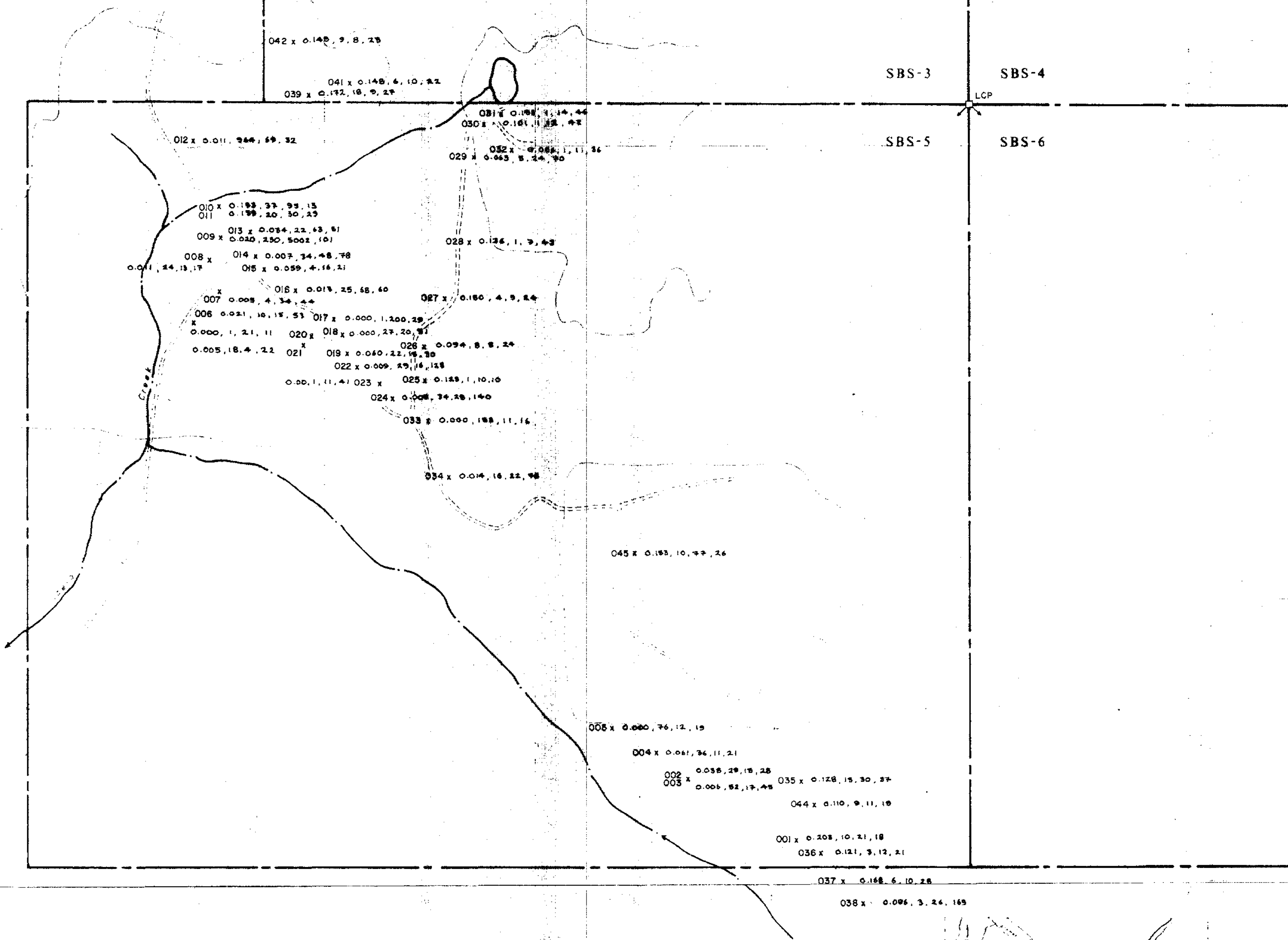


001 x 3.09, 3.48
sample location Na₂O, K₂O %

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,592


MINNOVA Inc.						
SBS PROPERTY						
SKARN ZONE						
LITHOGEOCHEMISTRY						
Na₂O, K₂O %						
<p>SCALE: 1:7500</p>						
	<table border="1"> <tr> <td>N.T.S. 82M/4W</td> <td>MAP</td> </tr> <tr> <td>DRAWN BY: IDR/sg</td> <td rowspan="2">12</td> </tr> <tr> <td>DATE: JUNE 1988</td> </tr> </table>	N.T.S. 82M/4W	MAP	DRAWN BY: IDR/sg	12	DATE: JUNE 1988
N.T.S. 82M/4W	MAP					
DRAWN BY: IDR/sg	12					
DATE: JUNE 1988						

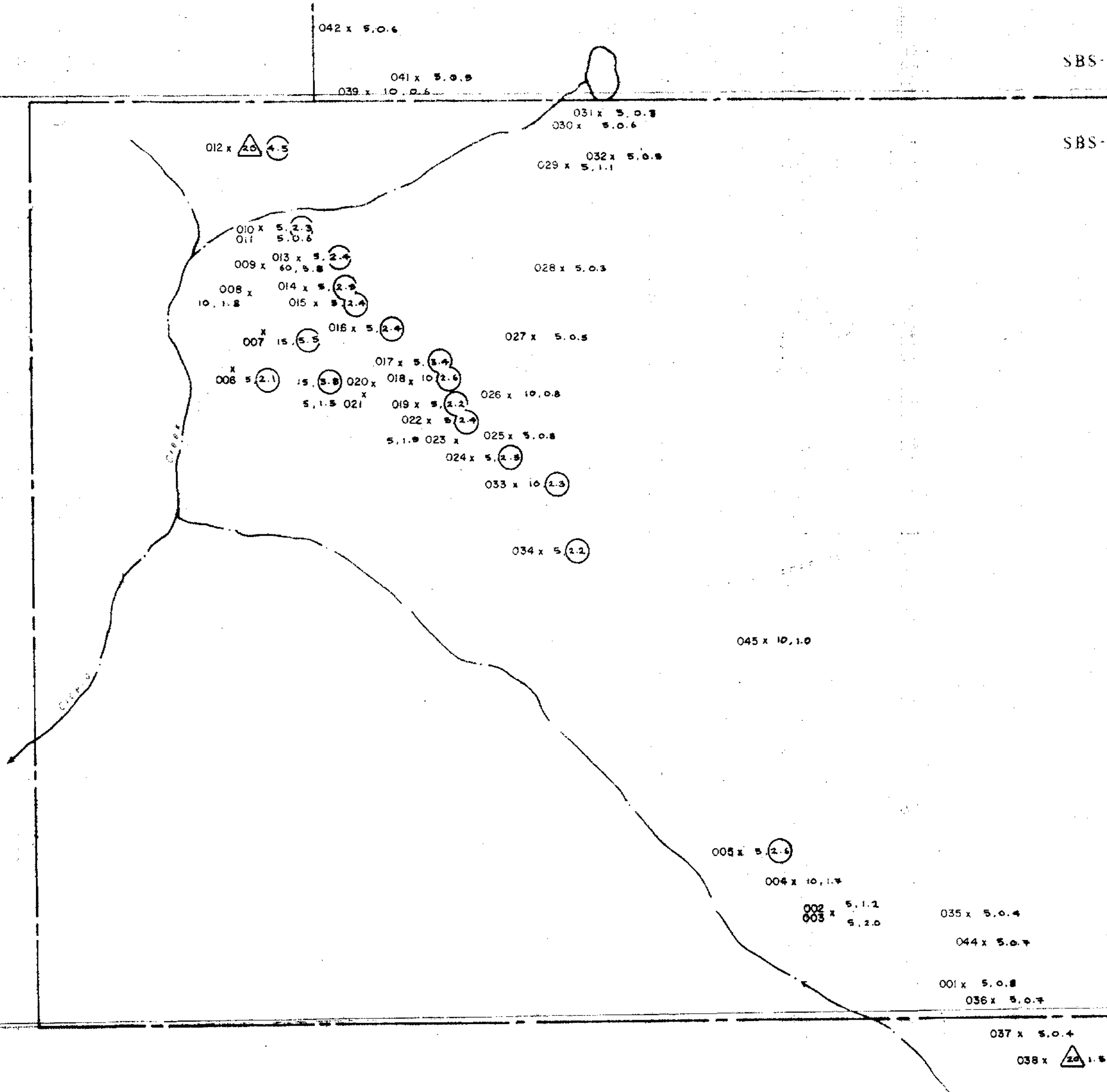


001 x 0.208, 10, 21, 18
sample location Ba %, Cu, Pb, Zn ppm

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

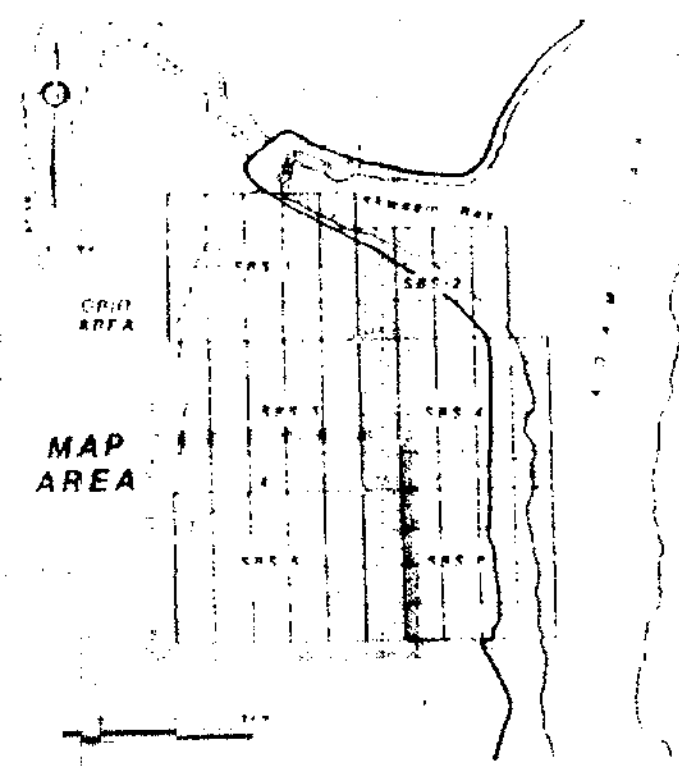
17,592

MINNOVA Inc.	
SBS PROPERTY	
SKARN ZONE LITHOGEOCHEMISTRY	
Ba %, Cu, Pb, Zn ppm	
0 500 1000 1500m SCALE: 1:7500	
 N.T.S. 82M/4W	MAP
DRAWN BY: IDP/sg	13
DATE: JUNE 1988	



SBS-3 SBS-4

SBS-5 SBS-6



001 x 5.0.8
 sample location Au ppb, Ag ppm
 ○ ≥ 2 ppm Ag
 △ ≥ 15 ppb Au

GEOLOGICAL BRANCH ASSESSMENT REPORT

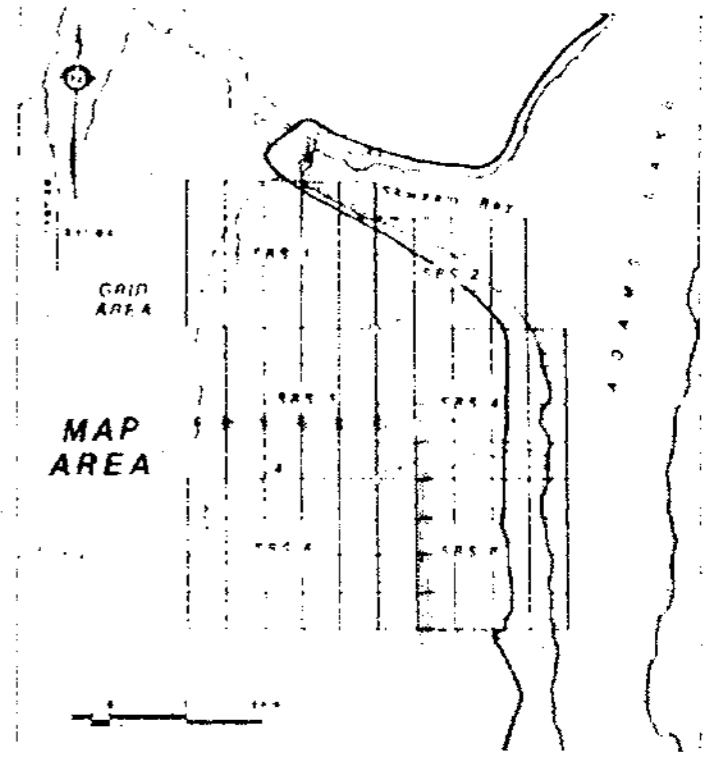
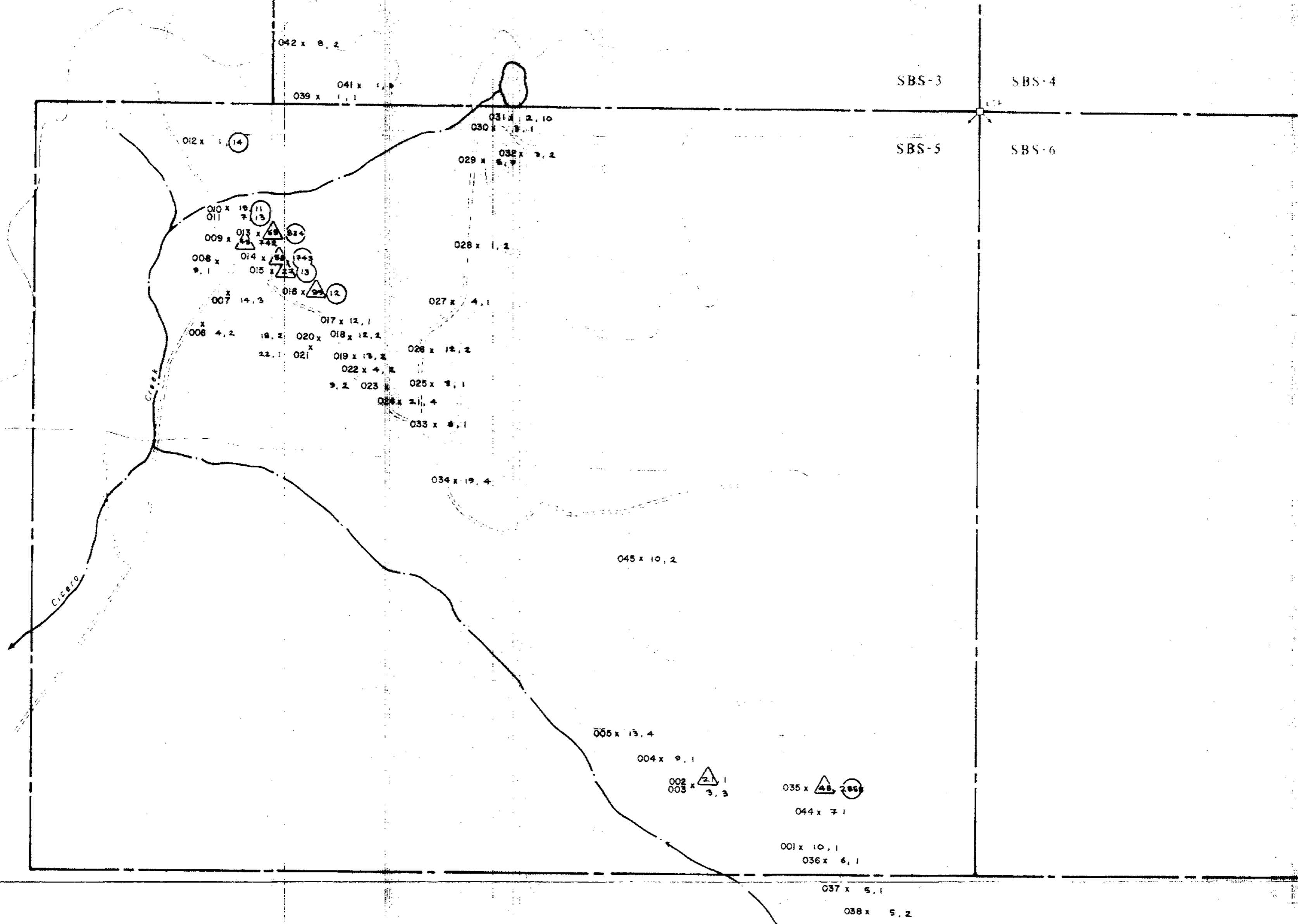
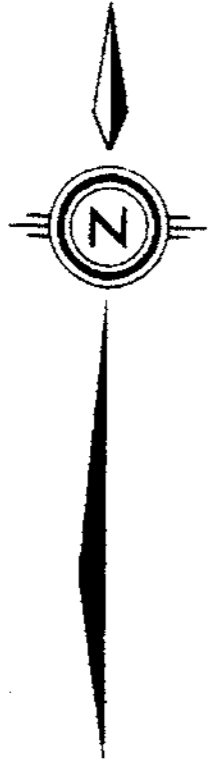
17,592

MINNOVA Inc.
SBS PROPERTY
 SKARN ZONE
LITHOGEOCHEMISTRY
Au ppb, Ag ppm

0 500 1000 1500m
 SCALE: 1:7500

N.T.S. 82M/4W	MAP:
DRAWN BY: IDP/sg	
DATE: JUNE 1988	

14



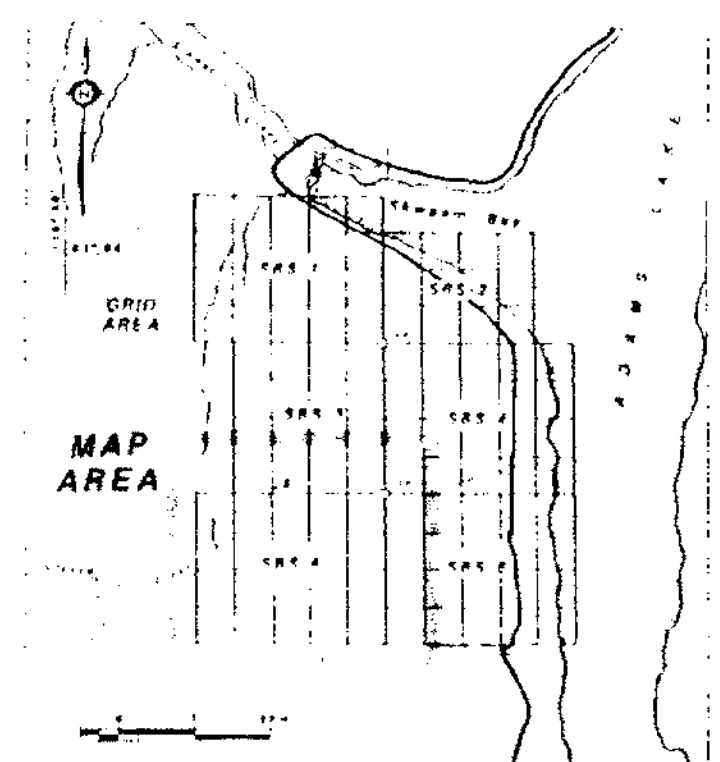
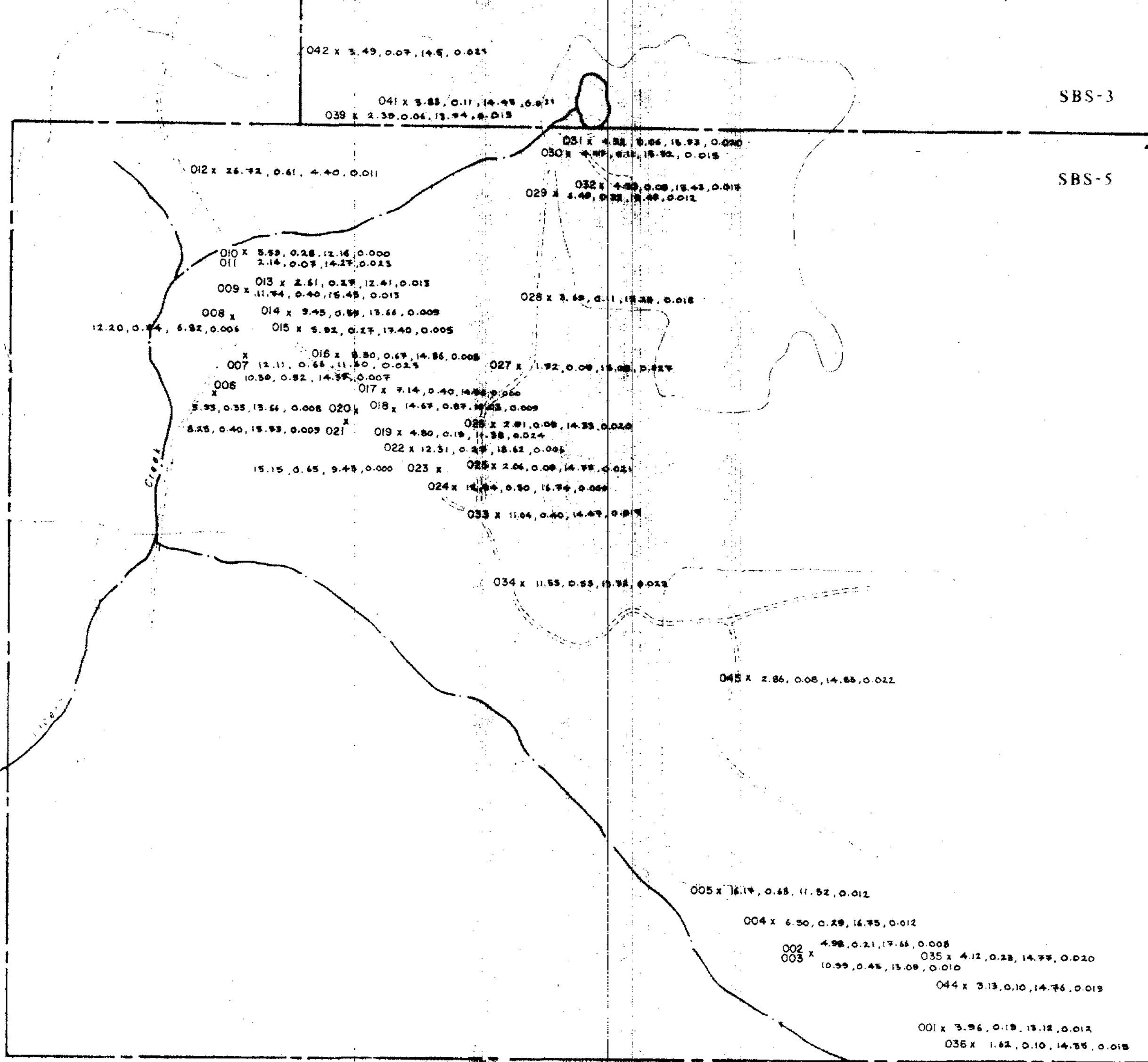
001 x 10, 1
sample location As, Sb ppm

○ ≥ 20 ppm As
△ ≥ 10 ppm Sb

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,592

MINNOVA Inc.		
SBS PROPERTY		
SKARN ZONE LITHOGEOCHEMISTRY		
As, Sb ppm		
 SCALE 1: 7500		
	N T S. 82M/4W DRAWN BY: IDP/sg DATE: JUNE 1988	MAP 15



001 x 3.85, 0.19, 13.12, 0.012
 sample location Fe₂O₃, MnO₂, Al₂O₃, Zr %

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

17,592

MINNOVA Inc.
SBS PROPERTY
 SKARN ZONE
LITHOGEOCHEMISTRY
Fe₂O₃, MnO₂, Al₂O₃, Zr %

0 500 1000 1500m
 SCALE: 1:7500

N.T.S. 82M/4W	MAP.
DRAWN BY: JDP/sg	16
DATE: JUNE 1988	