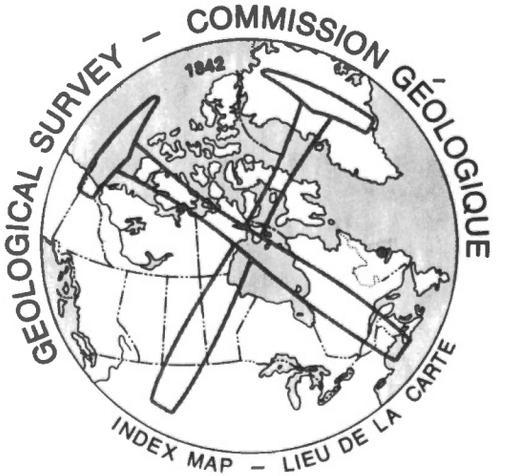
GEOLOGICAL SURVEY OF CANADA OPEN FILE 1637

NEWFOUNDLAND OPEN FILE LAB 768

(Parts of 13J and 13O)

CANADA – NEWFOUNDLAND MINERAL DEVELOPMENT AGREEMENT (1984 – 1989)

REGIONAL STREAM AND LAKE SEDIMENT AND WATER GEOCHEMICAL INFILL SURVEY DATA, EASTERN LABRADOR



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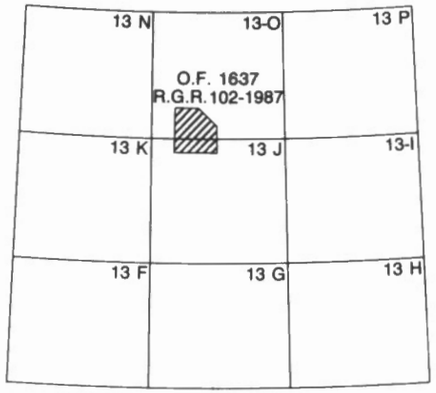
August, 1988

NATIONAL GEOCHEMICAL RECONNAISSANCE STREAM SEDIMENT, LAKE SEDIMENT AND WATER GEOCHEMICAL DATA, LABRADOR 1988, GSC OPEN FILE 1637, NGR 102 – 1988, LAB 768
parts of NTS 13J, 13O



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS

SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE ET INDEX DES CARTES ATTENANTES PUBLIÉES PAR LA COMMISSION GÉOLOGIQUE DU CANADA

Open File 1637 represents a contribution to the Canada – Newfoundland Mineral Development Agreement (1984 – 1989), a subsidiary agreement under the Economic and Regional Development Agreement. This project was funded and managed by the Geological Survey of Canada.

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Geological Survey of Canada Open File 1637
Newfoundland Department of Mines Open File LAB 768

Regional Stream Sediment, Lake Sediment and Water Geochemical Reconnaissance Data
Eastern Labrador, consisting of parts of NTS 13J and 13O

INTRODUCTION

Open File 1637 is one of two regional geochemical open files covering parts of Labrador which were released in 1988 (Open File 1636 and 1637) as part of the Canada – Newfoundland Mineral Development Agreement. Open file 1637 represents analyses of stream sediment and lake sediment material and waters for 24 elements.

The infill geochemical survey was undertaken in 1987 by the Geological Survey of Canada in conjunction with the Newfoundland Department of Natural Resources and Energy (Mineral Resources Division) under the Canada – Newfoundland Mineral Development Agreement (1984 – 1989).

The data base of the survey contributes to a national geochemical reconnaissance and is used for resource assessment, mineral exploration and geological mapping. The infill survey was designed to more fully evaluate the mineral potential in the Makkovik area. Regional survey sample collection and preparation procedures, analytical methods and repeatability of results are therefore strictly specified and controlled. In this way, consistent data can be systematically obtained in different areas in different years from different analytical laboratories

CREDITS

E.H.W. Hornbrook directed the survey.

P.W.B. Friske coordinated the operational activities of contract and Geological Survey of Canada staff.

Contracts were let to the following companies for sample collection, preparation and analysis and were managed by the following staff of the Exploration Geochemistry Subdivision:

Collection:	GSC personnel P.W.B. Friske, C.C. Durham, M. McCurdy, S. Cook
Preparation:	Golder Associates, Ottawa, Ontario J.J. Lynch
Analysis:	Bondar Clegg and Company Ltd., Ottawa Chemex Labs Limited, Vancouver, B.C. (waters and Au) J.J. Lynch

H.R. Schmitt coordinated and edited open file production.

A.C. Galletta and D. Wright managed the digital geochemical data, provided computer processing support, and developed software to plot the open file, symbol and regional trend maps. Computing services were provided by the Computer Science Centre, EMR. The plotting was done by Canada Lands Data Systems staff at Environment Canada, Hull, Quebec.

H. Gross developed microcomputer software to produce data listings and summary statistics

Open file base maps were prepared by Geological Information Division, Cartography Unit A-2 and Terra Surveys Ltd., Ottawa.

M. McCurdy, S. Cook and C.C. Durham provided technical support and editing assistance.

J.C. Bélec provided word processing support.

DESCRIPTION OF SURVEY AND SAMPLE MANAGEMENT

Helicopter supported sample collection was carried out during the summer of 1987.

Stream and lake sediment and water samples were collected at an average density of one sample per 3 to 5 square kilometres throughout the 1,200 square kilometres of the Makkovik survey.

Sample site duplicate samples were routinely collected in each analytical block of twenty samples.

In Ottawa, field dried lake sediment samples were air-dried, crushed, ball milled and sieved. The minus 80 mesh (177 microns) fraction was used for subsequent analyses. Field dried stream sediment samples were air-dried, sieved through an 80 mesh screen and ball milled. The ball milled fraction was analyzed. At this time, control reference and blind duplicate samples were inserted into each block of twenty sediment samples. For the water samples, only control reference samples were inserted into the block. There were no blind duplicate water samples.

On receipt, field and analytical data were processed with the aid of computers.

The field data were recorded by the field contract staff on standard stream sediment or lake sediment field cards (Rev. 74) used by the Geological Survey of Canada (Garrett, 1974).

The sample site positions were marked on appropriate 1:50,000 scale NTS maps in the field. These maps were digitized at the Geological Survey in Ottawa to obtain the sample site UTM coordinates.

The sample site coordinates were checked as follows: a sample location map was produced on a Calcomp 1051 drum plotter using the digitized coordinates; the field contractor's sample location map was then overlayed with the Calcomp map; the two sets of points were checked for coincidence. The dominant rock types in the stream catchment basins were identified on appropriate geological maps used as the bedrock geological base on RGR maps.

Thorough inspections of the field and analytical data were made to check for any missing information and/or gross errors.

Quality control and monitoring of the geochemical data was undertaken by a standard method used by the Exploration Geochemistry Subdivision at the Geological Survey of Canada.

ANALYTICAL PROCEDURES

Atomic Absorption Spectroscopy (AAS) and Other Analyses

The sample digestion procedure differed for stream and lake sediments as follows: for stream sediments, to determine of Zn, Cu, Pb, Ni, Co, Ag, Mn, Fe, Cd, and As a 1 gram sample was reacted with 3 mL concentrated HNO_3 in a test-tube overnight at room temperature. After digestion, the test-tube was immersed in a hot water bath at room temperature and brought up to 90° C and held at this temperature for 30 minutes with periodic shaking. 1 mL concentrated HCl was added and heating was continued for another 90 minutes. The sample solution was then diluted to 20 mL with metal free water and mixed. Zn, Cu, Pb, Ni, Co, Ag, Mn, Fe and Cd were determined by atomic absorption spectroscopy using an air-acetylene flame. Background corrections were made for Pb, Ni, Co, Ag and Cd.

For lake sediments, to determine Zn, Cu, Pb, Ni, Co, Ag, Mn, Fe, Cd, and As a 1 gram sample was reacted with 6 mL of a mixture of 4 M HNO_3 and M HCl in a test-tube overnight at room temperature. After digestion, the test-tube was immersed in a hot water bath at room temperature and brought up to 90° C and held at this temperature for 2 hours with periodic shaking. The sample solution

was then diluted to 20 mL with metal free water and mixed. Zn, Cu, Pb, Ni, Co, Ag, Mn, Fe and Cd were determined by atomic absorption spectroscopy using an air-acetylene flame. Background corrections were made for Pb, Ni, Co, Ag and Cd.

Arsenic was determined by atomic absorption using a hydride evolution method wherein the hydride (AsH3) is evolved and passed through a heated quartz tube in the light path of an atomic absorption spectrophotometer. The method is described by Aslin (1976). Detection limit = 1 ppm.

Molybdenum and vanadium were determined by atomic absorption spectroscopy using a nitrous oxide acetylene flame. A 0.5 gram sample was reacted with 1.5 mL concentrated HNO_3 at 90° C for 30 minutes. At this point 0.5 mL concentrated HCl was added and the digestion was continued at 90° C for an additional 90 minutes. After cooling, 8 mL of 1250 ppm Al solution were added and the sample solution was diluted to 10 mL before aspiration. Detection limit = Mo – 2 ppm; V – 5 ppm.

Mercury was determined by the Hatch and Ott Procedure with some modifications. The method is described by Jonasson *et al.* (1973). A 0.5 gram sample was reacted with 20 mL concentrated HNO_3 and 1 mL concentrated HCl in a test-tube for 10 minutes at room temperature prior to 2 hours of digestion with mixing at 90° C in a hot water bath. After digestion, the sample solutions were cooled and diluted to 100 mL with metal free water. The Hg present was reduced to the elemental state by the addition of 10 mL 10% w/v $SnSO_4$ in M H_2SO_4. The Hg vapour was then flushed by a stream of air into an absorption cell mounted in the light path of an atomic absorption spectrophotometer. Absorption measurements were made at 253.7 nm. Detection limit = 10 ppb.

Loss on ignition was determined using a 500 mg sample. The sample, weighed into 30 ml beaker, was placed in a cold muffle furnace and brought up to 500° C over a period of 2 – 3 hours. The sample was left at this temperature for 4 hours, then allowed to cool to room temperature for weighing. Detection limit = 1.0 pct.

Uranium was determined using a neutron activation method with delayed neutron counting. A detailed description of the method is provided by Boulanger *et al.* (1975). In brief, a 1 gram sample is weighed into a 7 dram polyethylene vial, capped and sealed. The irradiation is provided by the Slowpoke reactor with an operating flux of 10** 12 neutrons/sq cm/sec. The samples are pneumatically transferred from an automatic loader to the reactor, where each sample is irradiated for 60 seconds. After irradiation, the sample is again transferred pneumatically to the counting facility where after a 10 second delay the sample is counted for 60 seconds with six BF3 detector tubes embedded in paraffin. Following counting, the samples are automatically ejected into a shielded storage container. Calibration is carried out twice a day as a minimum, using natural materials of known uranium concentration. Detection limit = 0.5 ppm.

Antimony was determined as described by Aslin (1976). A 500 mg sample is placed in a test tube; 3 mL concentrated HNO_3 and 9 mL concentrated HCl are added and the mixture is allowed to stand overnight at room temperature. The mixture is heated slowly to 90° C and maintained at this temperature for at least 90 minutes. The solution is cooled and diluted to 10 mL with 1.8 M HCl. The antimony in an aliquot of this dilute solution is then determined by hydride evolution – atomic absorption spectrometry. Detection limit = 0.2 ppm.

Fluorine was determined as described by Ficklin (1970). A 250 mg sample is sintered with 1 g of a flux consisting of two parts by weight sodium carbonate and one part by weight potassium nitrate. The residue is then leached with water. The sodium carbonate is neutralized with 10 mL 10% (w/v) citric acid and the resulting solution is diluted to 100 mL with water. The pH of the resulting solution should be from 5.5 to 6.5. The fluoride content of the test solution is then measured using a fluoride ion electrode. Standard solutions contain sodium carbonate and citric acid in the same quantities as the sample solution. Detection limit = 20 ppm.

Gold was usually determined on a 10 g sediment sample; depending on the amount of sample available, lesser weights were sometimes used. This resulted in a variable detection limit: 2 ppb for a 5 g sample, 1 ppb for a 10 g sample . . . The sample was fused to produce a lead button, collecting any gold in the sample, which was cupelled in a muffle furnace to produce a silver (dore) bead. The silver beads were irradiated in a neutron flux for one hour, cooled for four hours, and counted by gamma ray spectrometry. Calibration was carried out using standard and blank beads.

Tungsten was determined as follows: A 0.2 g sample of sediment was fused with 1 g $K_2S_2O_7$ in a rimless test tube at 575° C for 15 minutes in a furnace. The cooled melt was then leached with 10 mL concentrated HCl in a water bath heated to 85° C. After the soluble material had completely dissolved, the insoluble material

was allowed to settle and an aliquot of 5 mL was transferred to another test tube. 5 mL of 20% $SnCl_2$ solution were then added to the sample aliquot, mixed and heated for 10 minutes at 85° C in a hot water bath. A 1 mL aliquot of dithiol solution (1% dithiol in iso-amyl acetate) was added to the test solution and the test solution was then heated for 4 – 6 hours at 80 – 85° C in a hot water bath. The test solution was then removed from the hot water bath, cooled and 2.5 mL of kerosene added to dissolve the globule. The colour intensity of the kerosene solution was measured at 630 nm using a spectrophotometer. The method is described by Quin and Brooks (1972). Detection limit = 2 ppm.

Tin was determined as follows: A 200 mg sample was heated with NH_4I; the sublined SnI_4 was dissolved in acid and the tin determined by atomic absorption spectrometry. Detection limit = 1 ppm

Barium was determined as follows: A 0.25 g sample was heated with 5 mL concentrated $HClO_4$ were added and heated to light fumes; 5 mL of water were added and the solution was transferred to a calibrated test tube and diluted to 25 mL with water. Barium was determined by spectroscopy. Detection limit = 40 ppm.

Fluoride in stream and lake water samples was determined using a fluoride electrode. Prior to measurement an aliquot of the sample was mixed with an equal volume of TISAB II buffer solution (total ionic strength adjustment buffer). The TISAB II buffer solution is prepared as follows: to 50 mL metal free water add 57 mL glacial acetic acid, 58 gm NaCl and 4 gm CDTA (cyclohexylene dinitrilo tetraacetic acid). Stir to dissolve and cool to room temperature. Using a pH meter, adjust the pH between 5.0 and 5.5 by slowly adding 5 M NaOH solution. Cool and dilute to one litre in a volumetric flask. Detection limit = 20 ppb.

Hydrogen ion activity (pH) was measured with a combination glass-calomel electrode and a pH meter.

Uranium in waters was determined by a laser-induced fluorometric method using a Scintrex UA-3 uranium analyser. A complexing agent, known commercially as fluran and composed of sodium pyrophosphate and sodium monophosphate (Hall, 1979) is added to produce the uranyl pyrophosate species which fluoresces when exposed to the laser. Since organic matter in the sample can cause unpredictable behaviour, a standard addition method was used. Further, there have been instances at the GSC where the reaction of uranium with fluran is either delayed or sluggish; for this reason an arbitrary 24 hour time delay between the addition of the fluran and the actual reading was incorporated into this method. In practice 500 µL of fluran solution were added to a 5 mL sample and allowed to stand for 24 hours. At the end of this period fluorescence readings were made with the addition of 0.0, 0.2 and 0.4 ppb U. For high samples the additions were 0.0, 2.0 and 4.0 (20 µL aliquots of either 55 or 550 ppb U were used). All readings were taken against a sample blank. Detection limit = .05 ppb.

Table 1 provides a summary of analytical data and methods.

PRESENTATION AND INTERPRETATION OF GOLD DATA

The following discussion reviews the format used to present the Au geochemical data and outlines some important points to consider when interpreting this data. This discussion is included in recognition of the special geochemical behaviour and mode of occurrence of Au in nature and the resultant difficulties in obtaining and analyzing samples which reflect the actual concentration level at a given site.

To correctly interpret Au geochemical data from regional stream sediment or lake sediment surveys requires an appreciation of the unique chemical and physical characteristics of Au and its mobility in the surficial environment. Key properties of Au that distinguish its geochemical behaviour from most other elements include (Harris, 1982):

(1) Au occurs most commonly in the native form which is chemically and physically resistant. A high proportion of the metal is dispersed in micron-sized particulate form. Gold's high specific gravity results in heterogeneous distribution, especially in stream sediment and clastic-rich (low LOI) lake sediment environments. Au distribution appears to be more homogeneous in organic-rich fluviatile and lake sediment environments.

(2) Gold typically occurs at low concentrations in the ppb range. Whereas gold concentrations of only a few ppm may represent economic deposits, background levels encountered from stream and centre-lake sediments seldom exceed 10 ppb, and commonly are near the detection limit of 1 ppb.

These factors result in a particle sparsity effect wherein very low concentrations of Au are heterogeneously enriched in the surficial environment. Hence, a major

problem facing the geochemist is to obtain a representative sample. In general, the lower the actual concentration of Au the larger the sample size, or the smaller the grain size required to reduce uncertainty over whether subsample analytical values truly represent actual values. Conversely, as actual Au concentrations increase or grain size decreases, the number of Au particles to be shared in random subsamples increases and the variability of results decreases (Clifton *et al.*, 1969; Harris, 1982). The limited amount of material collected during the rapid, reconnaissance-style regional surveys and the need to analyze for a broad spectrum of elements, precludes the use of a significantly large sample weight for the Au analyses. Therefore, to the extent that sample representivity can be increased, sample grain size is reduced by sieving and ball milling of all samples.

The following control methods are currently employed to evaluate and monitor the sampling and analytical variability which are inherent in the analysis of Au in geochemical mediums:

(1) For each block of twenty samples:

   (a) random insertion of a standard reference sample to control analytical accuracy and long-term precision;

   (b) collection of a field duplicate (two samples from one site) to control sampling variance;

   (c) analysis of a second subsample (blind duplicate) from one sample to control short-term precision.

(2) For both stream sediments and lake sediments, routine repeat analyses on a second subsample are performed for all samples having values that are statistically above approximately the 90th percentile of total data set. This applies only to gold analyses by fire assay preconcentration followed by neutron activation. **Such routine repeat analyses are not performed for INA analyses of archived samples.**

(3) For lake sediments only, a routine repeat analysis on a second subsample is performed on those samples with LOI values below 10%, indicating a large clastic component. On-going studies suggest that the Au distribution in these samples is more likely to be variable than in samples with a higher LOI content. **Again, routine repeat analyses are performed only when the fire assay preconcentration/neutron activation method is used.**

Au data presentation, statistical treatment and the value map format are different than for other elements. Au data listed in the open file may include initial analytical results, values determined from repeat analyses, together with sample weights and corresponding detection limits for all analyzed samples. The gold, statistical parameters and regional symbol trend plots are determined using the following data population selection criteria:

(1) Only the first analytical value is utilized.

(2) Au values determined from sample weights less than 10 g are excluded, except where determined by instrumental neutron activation analyses.

(3) Au values less than the detection limit (<1 ppb) for 10 g samples are set to 0.5 ppb.

On the value map, repeat analysis values, where determined (not field duplicates), are placed in brackets following the initial value determination. All values determined on a sample less than 10 g are denoted by an asterisk. Actual sample weight used can be determined from the text. Following are possible variations in data presentation on a value map:

*	No data
+ 27	Single analysis, 10 g sample weight
+ 27*	single analysis, <10 g sample weight
+ 27 (14)	Repeat analysis, both samples 10 g
+ 27 (14*)	Repeat analysis, first sample 10 g, repeat <10 g
+ <1	Single analysis, 10 g sample, less than detection limit of 1 ppb

In summary, geochemical follow-up investigations for Au should be based on a careful consideration of all geological and geochemical information, and especially a careful appraisal of gold geochemical data and its variability. In some instances, prospective follow-up areas may be indirectly identified by pathfinder element associations in favourable geology, although a complementary Au response due to natural variability may be lacking. Once an anomalous area has been identified, field investigations should be designed to include detailed

geochemical follow-up surveys and collection of large representative samples. Subsequent repeat subsample analyses will increase the reliability of results and permit a better understanding of natural variability which can then be used to improve sampling methodology and interpretation.

SEDIMENT DATA LIST LEGEND AND DIGITAL FIELD RECORD FORMAT

Table 2 and Table 3 lists both the field and map information which is recorded at each sample site and is listed in the accompanying data listings, and the digital record format for the tape or diskette version of the open file. For the digital record A = alpha; X = numeric, unless indicated otherwise.

REFERENCES

Aslin, G.E.M. (1976) The determination of arsenic and antimony in geological materials by flameless atomic absorption spectrophotometer; Journal of Geochemical Exploration, Vol. 6, pp. 321-330.

Boulanger, A., Evans, D.J.R., and Raby, B.F. (1975) Uranium analysis by neutron activation delayed neutron counting; Proceedings of the 7th Annual Symposium of Canadian Mineral Analysts, Thunder Bay, Ontario, September 22 – 23, 1975.

Clifton, H.E., Hunter, R.E., Swanson, F.J., and Phillips, R.L. (1969) Sample size and meaningful gold analysis; U.S. Geological Survey Professional Paper 625-C.

Ficklin, W.H. (1970) A rapid method for the determination of fluoride in rocks and soils, using an ion selective electrode; U.S. Geological Survey Paper 700C, pp. C186-188.

Garrett, R.G. (1974) Field data acquisition methods for applied geochemical surveys at the Geological Survey of Canada; Geol. Surv. Can. Paper 74-52.

Geological Survey of Canada (1988) Regional lake sediment and water geochemical reconnaissance data, Labrador 1988, GSC Open File 1636, 75 p. plus maps.

Hall, G.E.M. (1979) A study of the stability of uranium in waters collected from various geological environments in Canada; *In* Current Research, Part A, Geological Survey of Canada Paper 79-1A, p. 361-365.

Harris, J.F. (1982) Sampling and analytical requirements for effective use of geochemistry in exploration for gold; *In* Levinson, A.A., Editor, Precious Metals in the Northern Cordillera, proceedings of a symposium sponsored by the Association of Exploration Geochemists and the Cordilleran Section of the Geological Association of Canada, pp. 53-67.

Jonasson, I.R., Lynch, J.J., and Trip, L.J. (1973) Field and laboratory methods used by the Geological Survey of Canada in geochemical surveys; No. 12, Mercury in Ores, Rocks, Soils, Sediments and Water, Geological Survey of Canada Paper 73-21.

Quin, B.F., and Brooks, R.R. (1972) The rapid determination of tungsten in soils, stream sediments, rocks and vegetation; Analytica Chimica Acta, Vol. 58, pp. 301-309.

TABLE 1. Summary of Analytical Data and Methods

Element		Detection level		Method(s)
SEDIMENTS:				
Zn	Zinc	2	ppm	AAS
Cu	Copper	2	ppm	AAS
Pb	Lead	2	ppm	AAS
Ni	Nickel	2	ppm	AAS
Co	Cobalt	2	ppm	AAS
Ag	Silver	0.2	ppm	AAS
Mn	Manganese	5	ppm	AAS
As	Arsenic	1	ppm	AAS
Mo	Molybdenum	2	ppm	AAS
Fe	Iron	0.02	pct	AAS
Hg	Mercury	10	ppb	AAS
LOI	Loss-on-ignition	1.0	pct	GRAV
U	Uranium	0.5	ppm	NADNC
F	Fluorine	20	ppm	ISE
V	Vanadium	5	ppm	AAS
Cd	Cadmium	0.2	ppm	AAS
Sb	Antimony	0.2	ppm	AAS
W	Tungsten	2	ppm	COL
Ba	Barium	40	ppm	DCP
Sn	Tin	1	ppm	AAS
Au	Gold	1	ppb	FA – NA

TABLE 1 – Continued

Element		Detection level		Method(s)
WATERS:				
F	Fluoride	20	ppb	ISE
pH	Hydrogen ion activity			GCM
U	Uranium	0.05	ppb	LIF

AAS – Atomic absorption spectrometry
COL – Colorimetry using dithiol
DCP – Direct current plasma emission spectroscopy
FA – NA – Fire assay preconcentration – neutron activation
GCM – Glass Calomel electrode and pH meter
GRAV – Gravimetry
ISE – Ion selective electrode
LIF – Laser-induced fluorescence
NADNC – Neutron Activation delayed neutron counting

TABLE 2. DATA LIST AND DIGITAL FORMAT LEGEND – STREAMS
Record 1 – Field Data

FIELD RECORD	DEFINITION	TEXT CODE	DIGITAL RECORD COLUMN AND CODE
MAP	National topographic system (NTS): lettered quadrangle (1:250,000 scale) or (1:50,000 scale). Part of sample number.		1 – 6 "XXXAXX"
SAMPLE ID	Remainder of sample number: Year Field crew Sample sequence number	 19XX 1, 3, 5, 7 001 – 999	7 – 12 "XX " " X " " XXX"
UTM COORDINATES	Universal Transverse Mercator (UTM) Coordinate system; digitized sample location coordinates.		
ZN	Zone 7 to 22		13 – 14 "XX"
EASTING	UTM Easting in metres		15 – 20 "XXXXXX"
NORTHING	UTM Northing in metres		21 – 27 "XXXXXXX"
ROCK TYPE	Major rock type of stream catchment area: Quaternary Glacial surficial deposits Aphebian Michael Gabbro Monkey Hill, Strawberry and October Harbour leucocratic granites Benedict Mtns., quartz monzonite Adlavik mafic and ultramafic intrusives Quartz monzonite, granodiorite Felsic volcanics Mafic tuff, volcaniclastics Metasediments Kitts Pillow Lava Formation Quartzofeldspathic sediments Post Hill Amphibolite Archean Hopedale Gneiss	 Q AMB AMHG ABMG AAB AGN AAVF AAVM AASV AKPV AAS APHB AHGN	28 – 31 "Q" "AMB" "AMHG" "ABMG" "AAB" "AGN" "AAVF" "AAVM" "AASV" "AKPV" "AAS" "APHB" "AHGN"

TABLE 2 – Continued

FIELD RECORD	DEFINITION	TEXT CODE	DIGITAL RECORD COLUMN AND CODE
SAMPLE TYPE	Sample material collected: Stream bed sediment only Spring or sediment seep Heavy mineral concentrate Stream water only Natural groundwater, spring seep Simultaneous stream sediment and water Simultaneous spring or seep water and sediment	 1 2 3 4 5 6 7	32 "1" "2" "3" "4" "5" "6" "7"
WID	Stream width in decimetres	001 – 999	33 – 35 "XXX"
DEP	Water depth in decimetres	001 – 999	36 – 38 "XXX"
RS	Replicate Status; relationship of the sample to others in the project: A routine sample site First of a duplicate pair Second of a duplicate pair	 00 10 20	39 – 40 "00" "10" "20"
CONT	Contamination; human or natural None Possible Probable Definite Mining activity Industrial Sources Agricultural Domestic or household Forestry activity Burned areas	 0 1 2 3 4 5 6 7 8 9	41 "0" "1" "2" "3" "4" "5" "6" "7" "8" "9"
BANK TYPE	Bank type; the general nature of the bank material adjacent to the sample site: Alluvial Colluvial (bare rock, residual or mountain soils) Glacial till Glacial outwash sediments Bare rock Talus scree Organic predominant (debris, peat, muskeg, swamp)	 1 2 3 4 5 6 7	42 "1" "2" "3" "4" "5" "6" "7"

TABLE 2 – Continued

FIELD RECORD	DEFINITION	TEXT CODE	DIGITAL RECORD COLUMN AND CODE
WATER COL	Water colour; the general colour and suspended load of the sampled water:		43
	Clear (Clear)	0	"0"
	Brown transparent (Bn trans)	1	"1"
	White cloudy (Wh Cloudy)	2	"2"
	Brown cloudy (Bn Cloudy)	3	"3"
FLOW RATE	Water flow rate:		44
	Stagnant	0	"0"
	Slow (Slow)	1	"1"
	Moderate (Mod)	2	"2"
	Fast (Fast)	3	"3"
	Torrential (Torr)	4	"4"
SED COL	Predominant sediment colour:		45
	Red, brown (Rd – Bn)	1	"1"
	White, buff (Wh – Bf)	2	"2"
	Black (Bk)	3	"3"
	Yellow (Yw)	4	"4"
	Green (Gn)	5	"5"
	Grey, blue grey (Gy – Bl)	6	"6"
	Pink (Pink)	7	"7"
	Buff to brown (Bf – Bn)	8	"8"
	Brown (Bn)	9	"9"
SED COMP	Sediment composition; description of the bulk mechanical composition of the collected sample on a scale of 0 to 3, the total of the columns must add to 3 or 4 or 5:		46 – 48
	Size fractions are divided as follows:		
	Column 46 – >0.125 mm – sand		"X "
	Column 47 – <0.125 mm – fines, silt and clay, organics		" X "
	Column 48 – organics		" X"
	Amount of size fraction:		
	sum of amounts = 3 4 5		
	Absent 0 0 0	0	
	Minor <33% 25% 20%	1	
	Medium 33 – 67% 50% 40%	2	
	Major >67% 75% 60%	3	

TABLE 2 – Continued

FIELD RECORD	DEFINITION	TEXT CODE	DIGITAL RECORD COLUMN AND CODE
PCPT COL	Precipitate or stain; the presence of any coatings on pebbles, boulders or stream bottoms:		49
	None (None)	0	"0"
	Red – brown (Rd – Bn)	1	"1"
	White or buff (Wh – Bf)	2	"2"
	Black (Bk)	3	"3"
	Yellow (Yw)	4	"4"
	Green (Gn)	5	"5"
	Grey (Gy)	6	"6"
	Pink (Pink)	7	"7"
	Buff to brown (Bf – Bn)	8	"8"
BANK STAIN	Distinctive precipitate, stains, weathering on rocks in immediate catchment basin or stream banks:		50
	Featureless (None)	0	"0"
	Red, brown (*e.g.*, Fe) (Rd – Bn)	1	"1"
	White, buff (*e.g.*, CO_3, Zn) (Wh – Bf)	2	"2"
	Black (*e.g.*, Fe, Mn, sulphides) (Bk)	3	"3"
	Yellow (*e.g.*, Pb, U, Fe, Mo, REE) (Yw)		
	Green (Cu, Ni, U, Mo, As, Fe) (Gn)	4	"4"
	Bluish (Zn, P) (Bl)	5	"5"
	Pink (Co, As) (Pink)	6	"6"
		7	"7"
STRM PHYS	General physiography of drainage basin:		55
	Plain	0	"0"
	Muskeg, swampland	1	"1"
	Peneplain, plateau	2	"2"
	Hilly, undulating	3	"3"
	Mountainous, mature	4	"4"
	Mountainous, youthful (precipitous)	5	"5"
DRAIN PTRN	Drainage pattern:		56
	Poorly defined, haphazard	0	"0"
	Dendritic	1	"1"
	Herringbone	2	"2"
	Rectangular	3	"3"
	Trellis	4	"4"
	Discontinuous shield type (chains of lakes)	5	"5"
	Basinal (closed)	6	"6"
	Others	7	"7"

TABLE 2 – Continued

FIELD RECORD	DEFINITION	TEXT CODE	DIGITAL RECORD COLUMN AND CODE
STREAM TYPE	Stream type:		57
	Undefined	0	"0"
	Permanent, continuous	1	"1"
	Intermittent, seasonal	2	"2"
	Re-emergent, discontinuous	3	"3"
STREAM CLASS	Stream class (order):		58
	Undefined	0	"0"
	Primary	1	"1"
	Secondary	2	"2"
	Tertiary	3	"3"
	Quaternary	4	"4"
WATER SOURCE	Source of water:		59
	Unknown	0	"0"
	Groundwater	1	"1"
	Snow melt or spring run-off	2	"2"
	Recent precipitation	3	"3"
	Ice-cap or glacier meltwater	4	"4"
DAY*	Day of month site sampled:		60 – 61
MONTH*	Month number in year:		62 – 63
	January – 1 to December – 12		"XX"
AGE	Stratigraphic age of dominant rock type in catchment basin:		70 – 71
	Pleistocene to Recent	64	"64"
	Aphebian	02	"01"
	Archean	01	"01"

* Digital record only, not listed in text.

TABLE 2. DATA LIST AND DIGITAL FORMAT LEGEND – LAKES
Record 1 – Field Data

FIELD RECORD	DEFINITION	TEXT CODE	DIGITAL RECORD COLUMN AND CODE
MAP	National topographic system (NTS): lettered quadrangle (1:250,000 scale) or (1:50,000 scale).		1 – 6
	Part of sample number.		"XXXAXX"
SAMPLE ID	Remainder of sample number:		7 – 12
	Year	19XX	"XX "
	Field crew	1, 3, 5, 7	" X "
	Sample sequence number	001 – 999	" XXX"
UTM COORDINATES	Universal Transverse Mercator (UTM) Coordinate system; digitized sample location coordinates.		
ZN	Zone 7 to 22		13 – 14 "XX"
EASTING	UTM Easting in metres		15 – 20 "XXXXXX"
NORTHING	UTM Northing in metres		21 – 27 "XXXXXXX"
ROCK TYPE	Major rock type of stream catchment area:		28 – 31
	Quaternary		
	Glacial surficial deposits	Q	"Q"
	Aphebian		
	Michael Gabbro	AMB	"AMB"
	Monkey Hill, Strawberry and October Harbour leucocratic granites	AMHG	"AMHG"
	Benedict Mtns., quartz monzonite	ABMG	"ABMG"
	Adlavik mafic and ultramafic intrusives	AAB	"AAB"
	Quartz monzonite, granodiorite	AGN	"AGN"
	Felsic volcanics	AAVF	"AAVF"
	Mafic tuff, volcaniclastics	AAVM	"AAVM"
	Metasediments	AASV	"AASV"
	Kitts Pillow Lava Formation	AKPV	"AKPV"
	Quartzofeldspathic sediments	AAS	"AAS"
	Post Hill Amphibolite	APHB	"APHB"
	Archean		
	Hopedale Gneiss	AHGN	"AHGN"

TABLE 2 – Continued

FIELD RECORD	DEFINITION	TEXT CODE	DIGITAL RECORD COLUMN AND CODE
LAKE AREA	The area of the water body sampled: Pond ¼ to 1 sq km 1 to 5 sq km greater than 5 sq km	 POND .25 – 1 1 – 5 >5	32 – 35 "1 " " 1 " " 1" " 1"
LAKE DEP	Sample depth from surface of water body to lake bottom in metres	1 – 999	36 – 38 "XXX"
RS	Replicate status; the relationship of the sample to others within the analytical block of 20: Routine regional sample First of field duplicate Second of field duplicate	 00 10 20	39 – 40 "00" "10" "20"
RLF	Relief of the lake catchment basin: Low Medium High	 Lw Md Hi	41 – 43 "1 " " 1 " " 1"
CNT	Contamination; human or natural: None Work Camp Fuel Gossan	 Wo Ca Fu Go	48 – 51 " " "1 " " 1 " " 1 " " 1"
COLR	Sediment sample colour; up to two colours may be selected: Tan Yellow Green Grey Brown Black	 Tn Yl Gn Gy Br Bk	52 – 57 "1 " " 1 " " 1 " " 1 " " 1 " " 1"
SUSP	Suspended matter in water: None Heavy Light	 Hvy Lgt	58 – 59 " " "1 " " 1"

TABLE 2 – Continued

FIELD RECORD	DEFINITION	TEXT CODE	DIGITAL RECORD COLUMN AND CODE
AGE	Stratigraphic age of dominant rock type in catchment basin: Pleistocene to Recent Aphebian Archean Late Precambrian	 64 02 01 01	70 – 71 "64" "01" "01" "01"

Record 2 – Atomic Absorption Spectrometry and Other Data

FIELD RECORD	DEFINITION	UNITS	DETECTION LEVEL	DIGITAL RECORD COLUMN AND CODE
Zn – SEDS	Zinc in stream sediments	ppm	2	16 – 20
Cu – SEDS	Copper in stream sediments	ppm	2	21 – 25
Pb – SEDS	Lead in stream sediments	ppm	2	26 – 30
Ni – SEDS	Nickel in stream sediments	ppm	2	31 – 35
Co – SEDS	Cobalt in stream sediments	ppm	2	36 – 40
Ag – SEDS	Silver in stream sediments	ppm	0.2	41 – 47
Mn – SEDS	Manganese in stream sediments	ppm	5	48 – 53
As – SEDS	Arsenic in stream sediments	ppm	1	54 – 60
Mo – SEDS	Molybdenum in stream sediments	ppm	2	61 – 65
Fe – SEDS	Iron in stream sediments	pct	0.02	66 – 70
Hg – SEDS	Mercury in stream sediments	ppb	10	71 – 75
LOI – SEDS	Loss-on-ignition	pct	1	76 – 80

Record 3 – Atomic Absorption Spectrometry and Other Data

FIELD RECORD	DEFINITION	UNITS	DETECTION LEVEL	DIGITAL RECORD COLUMN AND CODE
U – SEDS	Uranium in stream sediments	ppm	0.5	16 – 22
F – SEDS	Fluorine in stream sediments	ppm	20	23 – 27
V – SEDS	Vanadium in stream sediments	ppm	5	28 – 32
Cd – SEDS	Cadmium in stream sediments	ppm	0.2	33 – 39
Sb – SEDS	Antimony in stream sediments	ppm	0.2	40 – 46
W – SEDS	Tungsten in stream sediments	ppm	2	47 – 51
Ba – SEDS	Barium in stream sediments	ppm	40	52 – 56
Sn – SEDS	Tin in stream sediments	ppm	1	57 – 63

Record 4 – Atomic Absorption Spectrometry and Other Data

FIELD RECORD	DEFINITION	UNITS	DETECTION LEVEL	DIGITAL RECORD COLUMN AND CODE
F – WATERS	Fluoride in stream waters	ppb	20	16 – 20
pH – WATERS	pH of stream waters			21 – 25
U – WATERS	Uranium in stream waters	ppb	0.05	26 – 30
Au – SEDS	Gold in stream sediments	ppb	variable	31 – 35
REPEAT Au	Gold in stream sediments – repeat analysis	ppb	variable	36 – 40
Au WEIGHT	Sample weight for first gold analysis	grams		41 – 44
REPEAT Au WEIGHT	Sample weight for repeat gold analysis	grams		45 – 48

Record 5 – Atomic Absorption Spectrometry and other Data

FIELD RECORD	DEFINITION	UNITS	DETECTION LEVEL	DIGITAL RECORD COLUMN AND CODE
Zn – SEDS	Zinc in lake sediments	ppm	2	16 – 20
Cu – SEDS	Copper in lake sediments	ppm	2	21 – 25
Pb – SEDS	Lead in lake sediments	ppm	2	26 – 30
Ni – SEDS	Nickel in lake sediments	ppm	2	31 – 35
Co – SEDS	Cobalt in lake sediments	ppm	2	36 – 40
Ag – SEDS	Silver in lake sediments	ppm	0.2	41 – 47
Mn – SEDS	Manganese in lake sediments	ppm	5	48 – 53
As – SEDS	Arsenic in lake sediments	ppm	1	54 – 60
Mo – SEDS	Molybdenum in lake sediments	ppm	2	61 – 65
Fe – SEDS	Iron in lake sediments	pct	0.02	66 – 70
Hg – SEDS	Mercury in lake sediments	ppb	10	71 – 75
LOI – SEDS	Loss-on-ignition	pct	1	76 – 80

Record 6 – Atomic Absorption Spectrometry and other Data

FIELD RECORD	DEFINITION	UNITS	DETECTION LEVEL	DIGITAL RECORD COLUMN AND CODE
U – SEDS	Uranium in lake sediments	ppm	0.5	16 – 22
F – SEDS	Fluorine in lake sediments	ppm	20	23 – 27
V – SEDS	Vanadium in lake sediments	ppm	5	28 – 32
Cd – SEDS	Cadmium in lake sediments	ppm	0.2	33 – 39
Sb – SEDS	Antimony in lake sediments	ppm	0.2	40 – 46
W – SEDS	Tungsten in lake sediments	ppm	2	47 – 51
Ba – SEDS	Barium in lake sediments	ppm	40	52 – 56
Sn – SEDS	Tin in lake sediments	ppm	1	57 – 63

Record 7 – Atomic Absorption Spectrometry and Other Data

FIELD RECORD	DEFINITION	UNITS	DETECTION LEVEL	DIGITAL RECORD COLUMN AND CODE
F – WATERS	Fluoride in lake waters	ppb	20	16 – 20
pH – WATERS	pH of lake waters			21 – 25
U – WATERS	Uranium in lake waters	ppb	0.05	26 – 30
Au – SEDS	Gold in lake sediments	ppb	variable	31 – 35
REPEAT Au	Gold in lake sediments – repeat analysis	ppb	variable	36 – 40
Au WEIGHT	Sample weight for first gold analysis	grams		41 – 44
REPEAT Au WEIGHT	Sample weight for repeat gold analysis	grams		45 – 48

National Geochemical Reconnaissance Lake Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J, 130
Field Data

Map	Sample ID	ZN	UTM Easting	UTM Northing	Rock Type	Rock Age	Lake Area	Lake Dep	Rep Stat	Relief	Cont	Sample Colour	Susp Matl
13J	871002	21	371583	6095299	AAsv	02	pond	3	00	Md	-	Br	Lgt
13J	871003	21	372534	6094153	AAsv	02	pond	5	10	Md	-	Br	Lgt
13J	871004	21	372534	6094153	AAsv	02	pond	5	20	Md	-	Br	Lgt
13J	871005	21	372816	6093118	AAb	02	.25-1	29	00	Md	-	Br	Lgt
13J	871006	21	374150	6092560	AAb	02	pond	10	00	Md	-	Br	Lgt
13J	871007	21	374953	6092548	AAb	02	.25-1	20	00	Md	-	Br	Lgt
13J	871008	21	373412	6091729	AAb	02	.25-1	19	00	Md	-	Br	-
13J	871009	21	374891	6090674	AAb	02	1-5	20	00	Hi	Go	Br	Lgt
13J	871011	21	374838	6089590	AAb	02	1-5	20	00	Hi	-	Br	-
13J	871012	21	376884	6089615	ABmg	02	pond	1	00	Md	-	Br	Lgt
13J	871013	21	376431	6086279	ABmg	02	pond	9	00	Md	-	Br	-
13J	871014	21	377247	6084200	ABmg	02	.25-1	5	00	Md	-	Br	-
13J	871015	21	376344	6084869	ABmg	02	.25-1	4	00	Md	-	Br	Lgt
13J	871016	21	372990	6086408	AAb	02	pond	4	00	Hi	-	Br	Lgt
13J	871017	21	372745	6089071	AAb	02	.25-1	12	00	Md	-	Br	-
13J	871018	21	373241	6089992	AAb	02	.25-1	23	00	Md	-	Br	-
13J	871019	21	371783	6090023	AAb	02	.25-1	27	00	Md	-	Br	-
13J	871020	21	371104	6091443	AAb	02	.25-1	20	00	Hi	-	Br	Lgt
13J	871023	21	369940	6093699	AAb	02	.25-1	9	00	Hi	-	BrBk	Lgt
13J	871024	21	367977	6094006	AAb	02	.25-1	26	00	Md	-	Br	-
13J	871025	21	366482	6095018	AAb	02	pond	10	10	Md	-	Br	-
13J	871026	21	366482	6095018	AAb	02	pond	10	20	Md	-	Br	-
13J	871027	21	354649	6096664	AMHg	02	.25-1	1	00	Md	-	GnBr	-
13J	871028	21	349423	6096364	AAvm	02	pond	1	00	Md	-	Br	-
13J	871029	21	350357	6094668	AMHg	02	pond	1	00	Hi	-	Br	Hvy
13J	871030	21	348328	6092281	AAsv	02	1-5	25	00	Md	-	Br	-
13J	871031	21	346580	6090236	AAsv	02	pond	1	00	Md	-	Br	-
13J	871032	21	345492	6091344	AAsv	02	pond	4	00	Md	-	Br	-
13J	871033	21	343868	6094261	AAvf	02	pond	1	00	Hi	-	Br	-
13J	871034	21	343204	6095456	Agn	02	pond	3	00	Md	-	GnBr	-
13J	871035	21	342309	6095413	Agn	02	pond	5	00	Md	-	Br	-
13J	871036	21	340936	6094517	Agn	02	pond	2	00	Hi	-	GnBr	-
13J	871037	21	340833	6092896	Agn	02	pond	1	00	Md	-	GnBr	-
13J	871038	21	342079	6093431	Agn	02	.25-1	12	00	Md	-	Br	-
13J	871039	21	343041	6091339	AHgn	01	1-5	10	00	Md	-	TnBr	-
13J	871040	21	341472	6088927	AHgn	01	.25-1	4	00	Lw	-	TnBr	-
13J	871042	21	340086	6088734	AHgn	01	pond	2	10	Lw	-	GnBr	-
13J	871043	21	340086	6088734	AHgn	01	pond	2	20	Lw	-	GnBr	-
13J	871044	21	340194	6086151	AHgn	01	pond	1	00	Md	-	TnBr	-
13J	871045	21	342201	6085475	AAsv	02	pond	2	00	Hi	-	Br	-

National Geochemical Reconnaissance Lake Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J, 13O
Analytical Data

	Element:	Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	W	Ba	Sn	Au	Au	Au	Au	F-W	pH	U-W
	Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	ppb		ppb
	Detection Limit:	2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	2	40	1	1-var	wght	1-var	wght	20		0.05
	Analytical Method:	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA		rpt	rpt	ISE	GCM	LIF
13J	871002	75	31	5	8	<	<	44	<	<	0.32	145	48.2	56.8	170	14	0.3	0.4	<	97	1	<	10.0	-	-	70	5.5	0.24
13J	871003	124	82	22	13	36	0.4	646	92.0	16	4.84	160	37.4	61.2	385	110	<	0.8	14	207	1	<	10.0	-	-	60	5.5	<
13J	871004	112	86	22	10	14	0.9	580	30.0	7	3.35	180	44.0	36.6	310	90	<	0.6	2	180	3	<	10.0	-	-	60	5.4	<
13J	871005	111	94	7	13	53	0.3	695	<	3	6.25	225	54.0	4.9	170	128	<	<	<	191	1	<	10.0	-	-	20	5.5	<
13J	871006	100	131	6	19	40	0.2	694	<	<	3.83	220	41.8	2.9	250	97	<	<	<	371	1	<	10.0	-	-	<	6.0	<
13J	871007	121	48	10	24	11	<	277	6.0	23	3.97	50	24.6	6.0	415	85	0.2	0.2	2	550	2	<	10.0	-	-	20	5.8	<
13J	871008	158	98	11	50	63	0.4	2898	<	2	8.51	245	38.2	2.7	260	83	<	<	<	340	1	<	10.0	-	-	<	6.1	<
13J	871009	148	59	8	30	39	<	734	<	4	7.65	90	30.0	4.0	270	73	<	<	2	442	2	<	10.0	-	-	20	6.0	<
13J	871011	116	63	7	36	45	<	2116	<	3	8.85	135	40.3	3.5	210	76	<	<	<	307	1	<	10.0	-	-	20	6.2	<
13J	871012	62	18	5	13	3	<	84	<	4	1.63	70	27.3	3.9	255	37	<	<	2	335	1	<	10.0	-	-	60	5.5	<
13J	871013	168	41	11	14	5	<	215	<	7	3.22	135	32.2	14.2	385	55	<	<	<	136	2	<	10.0	-	-	140	5.6	<
13J	871014	145	31	15	12	<	<	66	<	4	0.87	95	42.8	12.8	255	18	0.4	<	<	243	2	<	10.0	-	-	240	5.4	<
13J	871015	110	20	8	14	<	<	97	<	4	1.46	75	29.2	5.9	265	15	<	<	<	327	3	<	10.0	-	-	170	5.3	<
13J	871016	50	27	6	12	2	<	70	<	2	1.09	105	34.0	3.7	340	39	<	<	2	290	3	<	10.0	-	-	50	5.6	<
13J	871017	97	23	9	13	12	<	565	1.0	5	3.51	50	11.0	17.5	310	26	<	<	2	560	2	<	10.0	-	-	40	5.9	0.22
13J	871018	142	84	4	21	15	<	248	<	2	4.39	235	53.6	2.1	165	88	<	<	2	232	3	<	10.0	-	-	20	5.9	<
13J	871019	107	25	8	13	8	<	163	<	4	1.90	65	17.0	24.3	290	40	<	<	2	580	2	<	10.0	-	-	40	5.9	0.35
13J	871020	132	48	10	17	16	<	337	<	5	4.47	175	42.6	5.5	285	89	<	<	<	290	4	<	10.0	-	-	20	5.8	<
13J	871023	208	22	12	15	18	<	789	3.0	4	4.13	70	16.8	13.1	390	53	0.5	0.2	2	625	2	<	10.0	-	-	60	6.1	0.12
13J	871024	215	48	13	11	19	0.5	623	2.0	5	7.32	195	40.2	12.0	215	83	0.4	<	<	214	4	2	10.0	<	10.0	30	5.9	0.05
13J	871025	189	60	12	15	23	<	239	<	2	2.80	80	29.8	5.9	180	77	0.5	<	<	269	2	<	10.0	-	-	30	6.2	<
13J	871026	186	58	12	14	19	<	187	<	2	2.12	70	29.2	5.6	175	68	0.7	<	<	246	2	<	10.0	-	-	20	6.3	<
13J	871027	122	12	12	8	4	<	98	1.0	9	1.97	40	20.2	75.5	300	33	<	<	<	486	2	<	10.0	-	-	130	5.7	0.69
13J	871028	42	103	8	9	3	<	43	<	17	0.64	100	62.6	124.0	160	16	0.3	<	2	242	<	<	10.0	-	-	40	6.1	0.72
13J	871029	50	18	6	5	<	<	11	<	<	0.39	100	90.4	6.0	80	<	<	<	<	70	<	<	10.0	-	-	20	4.6	<
13J	871030	638	40	21	10	13	<	543	2.0	19	4.61	155	31.0	71.0	500	51	1.9	<	4	450	2	2	10.0	-	-	90	5.5	0.18
13J	871031	181	9	18	6	5	<	156	1.0	10	1.89	25	13.0	18.3	430	18	0.2	<	2	690	1	<	10.0	-	-	140	5.7	0.17
13J	871032	163	58	8	16	7	<	104	1.0	11	2.24	60	42.0	77.4	425	34	<	<	2	208	2	<	10.0	-	-	90	5.5	0.07
13J	871033	41	5	5	5	<	<	21	<	<	0.69	70	89.2	0.8	60	<	<	<	<	88	<	<	10.0	-	-	40	4.4	0.05
13J	871034	45	9	9	6	<	<	36	<	2	0.54	60	29.4	6.9	155	13	<	<	2	328	1	<	10.0	-	-	70	4.7	<
13J	871035	84	23	11	6	4	0.4	107	<	8	1.78	115	32.0	10.8	325	74	<	0.2	2	419	2	<	10.0	-	-	30	4.9	0.05
13J	871036	33	10	7	3	<	<	40	<	<	0.31	50	48.8	5.9	125	17	<	<	<	276	1	<	10.0	-	-	50	5.2	<
13J	871037	67	10	4	6	<	<	27	<	3	0.38	55	49.6	4.6	100	14	<	<	<	106	1	<	10.0	-	-	40	4.9	<
13J	871038	104	41	11	7	5	0.4	196	<	11	2.66	165	50.4	28.0	235	65	<	<	2	160	4	<	10.0	-	-	50	5.6	0.17
13J	871039	102	13	12	15	11	<	330	1.0	2	2.12	30	7.8	6.8	515	43	<	0.2	2	835	2	<	10.0	1	10.0	110	5.5	<
13J	871040	81	8	15	10	9	<	212	1.0	2	1.88	30	9.2	4.8	425	33	<	0.2	2	710	2	<	10.0	<	10.0	110	5.6	<
13J	871042	63	15	3	15	<	<	25	<	<	0.17	55	48.8	2.2	125	14	<	<	<	131	2	<	10.0	-	-	30	5.0	<
13J	871043	79	17	2	15	2	<	21	<	<	0.19	55	51.2	2.5	115	16	<	<	<	108	2	<	10.0	-	-	20	5.0	<
13J	871044	85	10	9	10	5	<	119	<	<	1.13	35	15.0	7.8	350	26	<	<	<	500	3	<	10.0	-	-	100	5.5	0.17
13J	871045	115	12	11	2	10	<	126	1.0	19	4.39	45	42.0	64.8	365	78	<	<	2	377	3	<	10.0	-	-	60	5.5	0.37

Map	Sample ID	ZN	UTM Easting	UTM Northing	Rock Type	Rock Age	Lake Area	Lake Dep	Rep Stat	Relief	Cont	Sample Colour	Susp Matl
13J	871046	21	343285	6086294	AAsv	02	pond	2	00	Hi	-	GnBr	-
13J	871047	21	344368	6085913	Agn	02	pond	7	00	Hi	-	Br	-
13J	871048	21	344065	6087914	AAsv	02	.25-1	5	00	Md	-	Br	-
13J	871049	21	345885	6087881	Agn	02	.25-1	7	00	Md	-	Br	-
13J	871050	21	347538	6087769	Agn	02	1-5	25	00	Md	-	Br	-
13J	871051	21	349041	6090911	AAsv	02	.25-1	13	00	Hi	-	Br	-
13J	871052	21	349966	6091489	AAvf	02	pond	4	00	Md	-	GnBr	-
13J	871053	21	352672	6093341	AAvf	02	1-5	9	00	Md	-	Br	-
13J	871054	21	354713	6092443	AAvf	02	pond	1	00	Hi	-	Br	-
13J	871055	21	357370	6092680	AAvf	02	pond	4	00	Hi	-	GnBr	-
13J	871056	21	358153	6095112	AAvf	02	pond	5	00	Hi	-	Br	-
13J	871058	21	364260	6096018	AAvf	02	pond	4	00	Hi	-	GnBr	-
13J	871059	21	364289	6093981	AAvf	02	pond	7	00	Hi	-	GnBr	-
13J	871060	21	367102	6093179	AAb	02	.25-1	17	00	Hi	-	Br	-
13J	871062	21	367707	6091880	AAb	02	pond	2	10	Hi	-	Br	-
13J	871063	21	367707	6091880	AAb	02	pond	2	20	Hi	-	Br	-
13J	871064	21	366234	6091696	AAvf	02	.25-1	11	00	Hi	-	GnBr	-
13J	871065	21	367293	6090377	AAsv	02	1-5	20	00	Md	-	GnBr	-
13J	871066	21	369605	6088975	AAsv	02	.25-1	12	00	Md	-	GnGy	-
13J	871067	21	370442	6089164	AAb	02	.25-1		00	Md	-	TnBr	-
13J	871068	21	370970	6088360	AAb	02	pond	8	00	Md	-	GnBr	-
13J	871069	21	370675	6087432	AAb	02	pond	4	00	Md	-	Br	-
13J	871070	21	369018	6087602	AAsv	02	1-5	16	00	Md	-	GyBr	-
13J	871071	21	368866	6086744	AAsv	02	pond	2	00	Md	-	Br	-
13J	871073	21	368084	6083176	AAb	02	.25-1	13	00	Md	-	Br	-
13J	871074	21	366508	6083770	ABmg	02	1-5	15	00	Md	-	Br	-
13J	871075	21	359815	6085290	AAvf	02	1-5	20	00	Md	-	Br	-
13J	871076	21	358843	6084654	AAvf	02	pond	9	00	Md	-	GnBr	-
13J	871077	21	357856	6083181	AAvf	02	pond	6	00	Md	-	Br	-
13J	871078	21	357306	6085456	AAvf	02	1-5	5	00	Md	-	TnBr	-
13J	871079	21	355538	6085490	AAvf	02	1-5	10	00	Md	-	GnBr	-
13J	871080	21	355448	6087627	AMHg	02	1-5	21	00	Hi	-	Br	-
13J	871082	21	353442	6088161	ABmg	02	pond	7	10	Md	-	GnBr	-
13J	871083	21	353442	6088161	ABmg	02	pond	7	20	Md	-	GnBr	-
13J	871084	21	352047	6088632	ABmg	02	1-5	15	00	Hi	-	GnBr	-
13J	871085	21	351419	6087387	ABmg	02	1-5	15	00	Hi	-	Br	-
13J	871086	21	349383	6088358	Agn	02	pond	7	00	Md	-	Br	-
13J	871088	21	349773	6089852	ABmg	02	pond	1	00	Md	-	TnBr	-
13J	871089	21	351045	6089648	ABmg	02	pond	9	00	Hi	-	Br	-
13J	871090	21	352603	6090381	ABmg	02	.25-1	1	00	Md	-	GyBr	-

National Geochemical Reconnaissance Lake Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J, 130
Analytical Data

	Element:	Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	W	Ba	Sn	Au	Au	Au	Au	F-W	pH	U-W
	Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	ppb		ppb
	Detection Limit:	2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	2	40	1	1-var	wght	1-var	wght	20		0.05
	Analytical Method:	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA		rpt	rpt	ISE	GCM	LIF
13J	871046	278	62	4	8	2	<	37	<	6	0.41	100	58.0	50.6	205	19	0.4	<	<	123	2	<	10.0	-	-	130	5.5	0.34
13J	871047	104	19	5	3	3	<	80	<	22	2.54	90	36.0	32.3	285	55	<	<	2	295	5	<	10.0	-	-	50	5.7	<
13J	871048	225	21	16	6	5	0.4	122	1.0	27	6.11	80	35.2	27.8	365	56	0.3	<	2	209	6	<	10.0	-	-	30	5.4	<
13J	871049	471	19	12	6	5	0.2	85	<	42	4.28	75	33.0	58.7	610	41	0.7	<	4	252	5	<	10.0	-	-	100	5.8	0.19
13J	871050	596	43	32	7	11	0.7	1049	1.0	33	4.70	100	36.0	137.0	570	37	1.6	<	2	225	8	<	10.0	-	-	140	5.8	0.13
13J	871051	450	23	20	4	4	0.5	178	<	15	3.38	115	53.6	168.0	735	51	0.8	<	2	421	4	<	10.0	-	-	130	5.8	0.36
13J	871052	225	17	36	4	3	<	76	<	3	0.68	70	27.4	43.5	310	22	0.7	<	<	442	2	<	10.0	-	-	100	5.3	0.34
13J	871053	207	16	17	4	9	<	340	1.0	22	4.71	50	21.6	77.2	400	41	<	<	2	462	2	2	10.0	1	10.0	120	5.5	0.35
13J	871054	127	12	10	6	2	<	48	<	<	0.59	50	35.2	42.9	260	15	0.7	<	<	347	2	<	10.0	-	-	110	5.7	0.34
13J	871055	255	36	27	8	2	0.2	47	<	<	0.52	95	28.6	20.3	250	11	0.9	<	2	204	3	<	10.0	-	-	60	5.1	<
13J	871056	103	32	21	6	2	<	59	<	8	0.62	65	37.6	161.0	340	16	0.3	<	2	280	2	<	10.0	-	-	120	5.5	1.31
13J	871058	931	31	35	5	3	<	90	1.0	4	1.37	50	14.6	46.5	280	25	7.0	0.2	2	411	2	<	10.0	-	-	60	6.4	0.48
13J	871059	1420	59	36	7	11	0.5	357	1.0	22	5.26	70	25.6	64.0	315	40	6.2	<	2	289	4	<	10.0	-	-	40	6.1	0.22
13J	871060	430	36	33	7	7	0.2	238	1.0	7	2.67	75	21.6	36.6	385	41	1.8	0.2	2	515	3	<	10.0	-	-	130	6.1	0.26
13J	871062	77	43	9	14	3	<	39	<	<	0.53	65	40.4	5.5	150	32	0.2	<	<	211	3	<	10.0	-	-	30	5.7	<
13J	871063	89	40	9	13	3	0.2	45	<	<	0.65	80	39.6	5.2	145	33	<	<	<	250	2	<	10.0	-	-	20	5.5	<
13J	871064	395	53	28	8	6	0.9	232	1.0	23	2.19	80	30.2	37.2	335	36	3.4	<	2	272	4	<	10.0	-	-	90	5.9	0.07
13J	871065	533	49	28	12	23	0.6	2066	4.0	35	8.44	115	30.8	110.0	360	61	2.1	<	2	479	3	<	10.0	-	-	70	5.8	0.23
13J	871066	100	22	13	20	9	<	192	2.0	2	1.79	15	4.4	9.9	475	32	<	<	<	705	2	<	10.0	8	10.0	70	5.9	0.16
13J	871067	299	59	22	14	26	0.5	885	3.0	19	8.14	80	27.6	82.8	430	70	0.8	<	2	461	5	<	10.0	-	-	70	5.9	0.14
13J	871068	100	34	7	12	5	0.2	64	<	4	1.36	85	41.6	9.1	175	57	<0.5	<	<	204	3	<	10.0	-	-	20	5.5	<
13J	871069	66	39	6	13	3	<	64	<	<	0.83	95	39.8	4.8	130	68	0.4	<	2	191	2	<	10.0	-	-	20	5.4	<
13J	871070	132	60	12	13	19	<	454	2.0	13	5.86	80	25.2	11.9	365	94	<	<	2	433	3	<	10.0	-	-	20	5.7	<
13J	871071	67	24	9	8	7	<	151	1.0	3	2.39	80	24.0	6.6	150	62	<	<	<	112	2	<	10.0	-	-	40	5.4	0.62
13J	871073	159	42	9	17	15	<	346	<	4	2.20	125	31.2	5.2	400	61	<	<	2	420	4	<	10.0	-	-	100	6.0	<
13J	871074	188	25	13	10	14	<	855	2.0	5	2.54	25	9.2	10.4	355	54	0.3	<	2	710	1	<	10.0	-	-	110	6.0	0.17
13J	871075	456	38	23	5	9	0.2	469	1.0	28	5.80	105	37.1	39.5	350	59	0.8	<	2	285	3	<	10.0	-	-	100	5.9	0.10
13J	871076	581	41	13	7	14	0.2	646	<	72	8.34	120	41.2	61.3	445	72	0.7	<	2	215	2	<	10.0	-	-	150	6.2	0.21
13J	871077	443	28	9	6	8	<	225	<	69	6.44	65	34.4	36.4	340	64	0.4	<	2	176	2	<	10.0	-	-	90	5.8	0.09
13J	871078	606	41	13	7	7	<	176	<	31	3.07	70	35.6	41.2	415	55	1.5	<	2	176	5	<	10.0	-	-	60	5.6	0.09
13J	871079	331	24	12	4	11	<	525	<	26	11.44	75	31.2	31.1	360	52	<	<	2	194	2	<	10.0	-	-	60	5.7	0.12
13J	871080	309	20	19	4	18	<	4710	1.0	14	8.66	45	21.2	42.6	420	34	0.3	<	2	484	2	<	10.0	-	-	100	5.8	0.07
13J	871082	535	17	19	4	12	<	345	<	40	6.59	50	30.8	57.7	660	44	1.1	<	2	192	2	<	10.0	-	-	100	5.7	0.08
13J	871083	550	17	20	5	13	<	422	<	39	7.82	50	29.0	57.1	580	38	1.2	<	<	201	3	<	10.0	-	-	100	5.8	0.06
13J	871084	502	50	16	12	6	<	223	1.0	15	2.04	25	12.8	61.4	590	38	0.9	<	<	765	2	<	10.0	-	-	100	6.0	0.06
13J	871085	317	27	19	4	19	<	1844	1.0	38	9.90	85	33.4	44.8	485	52	0.4	<	2	297	3	2	10.0	<	10.0	100	5.7	0.06
13J	871086	360	17	10	58	6	<	101	<	48	6.33	65	32.8	44.6	300	56	0.4	<	2	327	2	<	10.0	-	-	90	5.6	0.15
13J	871088	234	18	17	6	4	0.3	76	<	31	2.71	55	25.2	82.3	555	39	0.4	<	2	304	3	<	10.0	-	-	110	5.8	0.78
13J	871089	242	19	24	5	2	<	85	<	8	1.16	130	42.0	89.6	280	36	1.2	<	<	279	2	<	10.0	-	-	120	5.7	0.18
13J	871090	66	5	12	3	2	<	85	1.0	2	1.33	10	2.6	8.7	280	10	<	<	2	750	1	<	10.0	-	-	100	5.7	0.06

Field Data

Map	Sample ID	ZN	UTM Easting	UTM Northing	Rock Type	Rock Age	Lake Area	Lake Dep	Rep Stat	Relief	Cont	Sample Colour	Susp Matl
13J	871091	21	355499	6090716	AMHg	02	.25-1	3	00	Md	-	TnBr	-
13J	871092	21	357572	6090616	AAvf	02	.25-1	5	00	Hi	-	GnBr	-
13J	871093	21	359275	6093413	AAvf	02	.25-1	8	00	Md	-	TnBr	-
13J	871094	21	360198	6094274	AAsv	02	pond	1	00	Md	-	GyBr	-
13J	871095	21	361294	6094021	AAvm	02	1-5	14	00	Md	Wo	Br	-
13J	871096	21	362267	6091161	AAvf	02	pond	1	00	Lw	-	Br	-
13J	871097	21	363354	6092059	AAvf	02	pond	2	00	Md	-	GnBr	-
13J	871098	21	363726	6091090	AAvf	02	pond	1	00	Md	-	Br	-
13J	871099	21	367906	6089539	AAsv	02	1-5	10	00	Md	-	TnGy	-
13J	871100	21	366413	6087719	AAsv	02	pond	1	00	Md	-	Br	-
13J	871102	21	366215	6086107	AMHg	02	.25-1	20	00	Md	-	Br	-
13J	871103	21	364494	6087645	AAvf	02	pond	2	00	Hi	-	GnBr	-
13J	871104	21	363503	6088816	AAvf	02	1-5	20	00	Hi	-	Br	-
13J	871105	21	362053	6086875	AAvf	02	pond	4	10	Md	-	GnBr	-
13J	871106	21	362053	6086875	AAvf	02	pond	4	20	Md	-	GnBr	-
13J	871107	21	360248	6089042	AAvf	02	1-5	5	00	Md	Wo	GnBr	-
13J	871109	21	359148	6089146	AAvf	02	pond	1	00	Md	-	Br	-
13J	871110	21	360472	6090604	AAvf	02	1-5	18	00	Md	-	Br	-
13J	871111	21	359173	6091060	AAvf	02	pond	7	00	Md	-	GnBr	-

National Geochemical Reconnaissance Lake Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J, 130
Analytical Data

	Element:	Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	W	Ba	Sn	Au	Au	Au	Au	F-W	pH	U-W
	Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	ppb		ppb
	Detection Limit:	2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	2	40	1	1-var	wght	1-var	wght	20		0.05
	Analytical Method:	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA		rpt	rpt	ISE	GCM	LIF
13J	871091	364	17	28	7	3	<	86	<	10	2.13	40	2.6	37.2	355	34	1.1	<	2	395	2	<	10.0	-	-	140	5.8	0.15
13J	871092	388	24	27	8	3	<	86	<	12	1.66	55	27.0	50.4	420	28	1.4	<	2	347	2	<	10.0	-	-	160	5.9	0.12
13J	871093	239	25	15	7	3	<	98	<	17	1.68	35	21.4	11.0	400	32	0.6	<	2	443	3	<	10.0	-	-	150	5.8	1.47
13J	871094	131	12	10	4	3	<	120	2.0	4	1.68	15	8.2	20.6	300	16	0.2	0.2	<	650	3	<	10.0	-	-	160	6.0	0.86
13J	871095	147	17	15	5	8	<	4800	2.0	24	4.01	40	6.8	32.3	365	26	<	0.2	2	800	1	<	10.0	-	-	120	6.1	0.23
13J	871096	343	18	15	5	4	<	151	1.0	18	1.98	40	15.8	108.0	300	32	1.4	0.2	2	495	1	<	10.0	-	-	120	6.1	1.75
13J	871097	306	45	19	8	2	<	73	<	74	1.34	80	33.0	87.4	285	30	1.6	0.2	<	249	3	<	10.0	-	-	50	5.9	0.74
13J	871098	155	22	12	7	3	<	90	<	2	0.62	60	27.6	53.6	290	18	1.0	<	<	555	1	<	10.0	-	-	130	6.2	0.60
13J	871099	283	64	13	14	7	<	248	5.0	32	2.02	10	5.0	144.0	365	39	0.9	0.3	4	590	2	<	10.0	-	-	70	6.1	0.71
13J	871100	153	19	13	5	4	<	92	4.0	9	1.37	30	11.6	65.9	300	38	0.4	<	2	605	2	<	10.0	-	-	150	6.1	4.62
13J	871102	419	46	38	8	36	0.5	6268	2.0	32	6.08	175	40.2	80.3	530	83	1.0	<	4	340	3	<	10.0	-	-	100	6.0	0.38
13J	871103	446	23	15	9	4	<	94	<	2	0.81	45	20.0	130.0	290	17	1.7	<	<	493	3	<	10.0	-	-	20	5.9	1.07
13J	871104	747	58	27	11	16	0.9	2812	1.0	74	6.08	115	31.0	86.9	300	42	3.4	0.2	2	298	3	<	10.0	-	-	70	6.1	0.10
13J	871105	437	58	22	12	4	<	82	<	8	0.81	105	34.0	62.6	310	27	2.8	<	<	347	2	<	10.0	<2	5.00	100	5.8	0.14
13J	871106	419	51	20	11	4	<	76	<	9	0.74	70	35.2	60.8	320	25	2.6	0.2	<	348	3	1	10.0	<2	5.00	100	5.7	0.21
13J	871107	251	20	14	6	7	<	380	1.0	11	2.78	40	11.8	30.5	345	32	0.7	<	<	570	2	<	10.0	-	-	100	5.9	0.17
13J	871109	118	19	18	6	<	<	49	<	<	0.50	50	46.0	34.4	215	16	0.4	<	2	379	1	<	10.0	-	-	100	6.0	0.33
13J	871110	261	24	15	5	12	<	624	2.0	11	6.46	60	12.4	39.0	350	37	0.4	0.2	<	605	2	<	10.0	-	-	100	6.2	0.16
13J	871111	271	27	28	7	4	0.3	116	<	8	1.76	70	25.2	123.0	360	31	0.9	<	<	336	3	<	10.0	-	-	140	6.0	0.24

Map	Sample ID	ZN	UTM Easting	UTM Northing	Rock Type	Rock Age	Lake Area	Lake Dep	Rep Stat	Relief	Cont	Sample Colour	Susp Matl
130	871002	21	356244	6111875	Agn	02	1-5	3	00	Md	-	Br	-
130	871003	21	356542	6113028	Agn	02	.25-1	1	00	Md	-	Br	-
130	871004	21	355922	6114688	Agn	02	1-5	1	00	Md	-	Br	Lgt
130	871005	21	356548	6115797	AAsv	02	>5	1	00	Md	-	GyBr	-
130	871006	21	356378	6116862	AAsv	02	>5	2	00	Md	-	Br	Lgt
130	871007	21	357423	6119254	AAsv	02	1-5	1	00	Md	-	Br	Lgt
130	871008	21	358874	6120041	AAsv	02	.25-1	2	00	Hi	WoCa	GyBr	Lgt
130	871009	21	359592	6122046	AAsv	02	.25-1	4	10	Hi	-	Br	-
130	871010	21	359592	6122046	AAsv	02	.25-1	4	20	Hi	-	Br	-
130	871011	21	363226	6120605	AAvf	02	.25-1	4	00	Md	Wo	GyBr	-
130	871012	21	361488	6119267	AAvf	02	.25-1	1	00	Md	-	Br	Lgt
130	871013	21	360647	6116542	AAvf	02	>5	4	00	Hi	-	TnBr	-
130	871014	21	361943	6115976	AAvf	02	.25-1	14	00	Md	-	Br	Lgt
130	871015	21	360096	6114286	AAvf	02	>5	6	00	Md	-	TnBr	-
130	871016	21	358582	6114449	AAvf	02	1-5	1	00	Lw	-	Tn	-
130	871018	21	359975	6112641	AAvf	02	1-5	2	00	Lw	-	Br	-
130	871019	21	360196	6110786	AAvf	02	.25-1	2	00	Lw	-	Br	-
130	871020	21	364736	6109123	AAvf	02	pond	1	00	Md	-	GnBr	Lgt
130	871022	21	367635	6110252	AMHg	02	pond	1	00	Md	-	Br	Lgt
130	871023	21	369390	6110851	AMHg	02	pond	6	10	Md	-	GnBr	Lgt
130	871024	21	369390	6110851	AMHg	02	pond	6	20	Md	-	GnBr	Lgt
130	871025	21	371410	6110495	AAvf	02	pond	4	00	Hi	-	GnBr	-
130	871026	21	371792	6111697	AAvf	02	pond	7	00	Hi	-	Br	-
130	871027	21	374730	6110270	AAsv	02	pond	3	00	Md	-	GnGy	Lgt
130	871028	21	374121	6107853	AAsv	02	pond	4	00	Md	-	GyBr	-
130	871029	21	373702	6104786	AAvf	02	pond	1	00	Md	-	GyBr	Lgt
130	871030	21	372390	6104517	AAvf	02	pond	11	00	Hi	-	GnBr	Lgt
130	871031	21	372507	6103083	AAvf	02	pond	1	00	Md	-	GnBr	Lgt
130	871032	21	370022	6103391	AAvf	02	.25-1	25	00	Md	-	GnBr	-
130	871033	21	370986	6104655	AAvf	02	pond	5	00	Md	-	GnBr	-
130	871034	21	371539	6105177	AAvf	02	pond	4	00	Md	-	GnBr	-
130	871035	21	370452	6105990	AAvf	02	pond	11	00	Md	-	GnBr	-
130	871036	21	369558	6106297	AAvf	02	.25-1	20	00	Md	-	GnBr	-
130	871038	21	370969	6107361	AAvf	02	pond	2	00	Md	-	GyBr	Lgt
130	871039	21	364654	6108143	AAvf	02	pond	3	00	Md	Go	Br	-
130	871040	21	364053	6107615	AAvf	02	pond	5	00	Md	-	Br	-
130	871042	21	362247	6107825	AAvf	02	pond	2	00	Lw	-	Br	Lgt
130	871043	21	358132	6108054	AAvf	02	pond	1	00	Md	-	Br	-
130	871045	21	353623	6106984	AAsv	02	pond	5	10	Md	-	Br	-
130	871046	21	353623	6106984	AAsv	02	pond	5	20	Md	-	Br	-

National Geochemical Reconnaissance Lake Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J, 130
Analytical Data

	Element:	Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	W	Ba	Sn	Au	Au	Au	Au	F-W	pH	U-W
	Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	ppb		ppb
	Detection Limit:	2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	2	40	1	1-var	wght	1-var	wght	20		0.05
	Analytical Method:	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA		rpt	rpt	ISE	GCM	LIF
130	871002	138	18	13	8	5	<	130	<	8	1.91	60	21.8	30.5	280	59	<	<	2	605	3	<	10.0	-	-	110	5.4	0.19
130	871003	77	9	10	9	5	<	96	1.0	<	0.84	30	13.6	7.4	315	20	<	<	2	865	1	<	10.0	-	-	160	5.4	0.17
130	871004	105	14	13	9	4	<	71	<	3	1.06	60	24.0	8.2	185	32	<	<	<	189	2	<	10.0	-	-	140	5.6	<
130	871005	154	21	13	14	8	<	130	2.0	5	1.37	20	10.4	12.1	310	34	0.2	0.2	2	740	2	<	10.0	-	-	120	5.8	0.15
130	871006	88	11	8	9	5	<	97	2.0	<	1.04	30	16.6	3.4	340	28	<	0.2	2	515	2	<	10.0	-	-	70	6.2	0.05
130	871007	70	14	7	18	8	<	96	<	<	1.65	45	32.0	6.4	305	38	<	<	2	309	2	<	10.0	-	-	100	6.4	<
130	871008	56	17	11	12	8	<	124	2.0	2	1.34	20	9.2	4.7	355	27	<	<	<	650	1	<	10.0	<	10.0	150	6.2	<
130	871009	163	46	26	20	8	<	166	1.0	2	2.82	65	44.4	10.9	190	45	<	<	4	456	4	<	10.0	-	-	40	6.1	0.09
130	871010	132	44	25	19	8	<	161	1.0	2	2.78	80	44.6	10.4	195	45	<	<	4	443	3	<	10.0	-	-	30	6.0	<
130	871011	408	75	13	48	21	<	293	2.0	20	2.48	80	30.6	27.4	305	48	0.7	<	2	455	3	<	10.0	-	-	50	6.1	<
130	871012	108	41	11	14	3	<	87	<	<	0.89	115	57.8	9.5	90	12	0.7	<	<	86	1	<	10.0	-	-	70	6.0	<
130	871013	149	30	12	18	6	0.2	129	<	5	1.49	55	19.2	11.0	260	28	<	<	2	464	3	<	10.0	-	-	70	5.7	0.21
130	871014	498	69	23	11	9	<	382	<	95	4.84	115	32.6	33.5	495	87	1.1	<	2	367	5	<	10.0	-	-	110	6.0	0.09
130	871015	151	26	15	18	6	<	131	1.0	5	1.58	45	17.4	8.5	315	31	<	<	2	378	2	<	10.0	-	-	70	5.8	0.19
130	871016	137	11	19	10	6	<	166	1.0	<	1.59	20	5.6	6.8	330	28	<	<	2	685	1	<	10.0	<	10.0	130	5.8	1.11
130	871018	190	11	12	10	6	<	145	1.0	6	1.39	40	14.0	7.9	270	32	0.2	<	2	580	2	<	10.0	-	-	90	6.2	0.29
130	871019	87	17	5	9	2	<	76	<	<	0.72	85	68.4	4.6	80	27	0.2	<	2	200	5	<	10.0	-	-	60	5.6	<
130	871020	327	51	14	9	5	0.2	60	<	17	0.75	155	53.8	51.1	145	13	1.4	<	<	191	3	<	10.0	-	-	60	6.1	1.00
130	871022	70	10	34	8	3	<	112	1.0	<	1.06	40	15.6	5.9	285	17	<	2.0	2	494	3	<	10.0	-	-	110	5.3	0.19
130	871023	195	20	23	7	5	<	135	1.0	31	4.31	75	22.4	56.8	340	48	0.3	<	<	345	2	<	10.0	-	-	150	5.8	0.46
130	871024	192	20	20	7	5	<	138	1.0	30	4.34	75	21.4	55.6	330	45	0.3	<	2	365	2	<	10.0	-	-	160	5.8	0.75
130	871025	496	24	17	5	7	<	645	2.0	17	3.35	40	9.6	110.0	335	29	0.7	0.2	2	500	2	<	10.0	7	10.0	190	5.8	1.83
130	871026	906	66	51	9	19	0.7	8520	4.0	119	11.03	175	27.4	200.0	540	42	2.8	<	2	323	3	<	10.0	-	-	200	6.3	1.90
130	871027	117	70	10	16	9	1.0	194	4.0	4	1.75	25	22.2	16.7	435	37	0.2	<	<	630	1	4	10.0	<	10.0	30	6.2	0.15
130	871028	96	39	16	15	11	0.2	415	5.0	12	2.72	35	7.2	29.1	460	50	<	0.2	4	720	2	<	10.0	4	10.0	40	6.0	0.25
130	871029	380	30	13	12	6	<	149	4.0	3	1.50	75	28.6	49.3	340	36	1.3	<	8	483	2	<	10.0	-	-	150	6.2	0.80
130	871030	406	25	30	13	8	<	463	4.0	40	3.36	125	17.0	71.9	455	44	1.0	0.2	4	401	3	<	10.0	-	-	150	6.2	0.59
130	871031	1081	35	38	19	16	0.2	213	4.0	14	2.85	95	19.6	22.4	555	50	3.2	0.2	2	416	2	<	10.0	-	-	180	6.2	0.38
130	871032	289	37	29	20	30	0.3	2064	13.0	11	6.19	75	19.8	84.9	480	45	1.0	<	2	358	3	<	10.0	-	-	60	6.1	0.20
130	871033	190	24	15	15	6	<	143	5.0	5	1.41	75	23.8	37.4	315	40	0.4	0.2	<	266	2	<	10.0	-	-	60	5.9	0.26
130	871034	295	28	20	43	12	<	260	24.0	20	3.08	60	15.0	71.4	545	45	0.2	0.6	2	294	2	<	10.0	-	-	80	6.1	0.33
130	871035	902	47	14	12	10	0.5	256	3.0	22	3.77	140	32.4	39.0	290	27	2.3	<	2	202	4	<	10.0	-	-	40	5.7	<
130	871036	1083	53	64	7	7	1.3	736	3.0	68	5.29	385	44.2	216.0	515	48	4.0	<	4	305	5	<	10.0	-	-	150	6.1	0.55
130	871038	851	48	26	13	13	<	2368	10.0	41	2.00	85	20.2	63.3	345	31	2.8	0.3	4	401	3	<	10.0	-	-	170	6.4	0.44
130	871039	763	70	28	13	3	0.4	80	1.0	25	0.80	80	37.2	45.6	140	24	2.6	<	2	250	2	<	10.0	-	-	40	5.8	0.13
130	871040	521	29	42	9	4	0.6	115	<	56	2.72	90	43.2	27.5	155	25	1.9	<	2	204	4	<	10.0	-	-	20	5.5	0.05
130	871042	355	55	24	13	2	0.2	46	<	<	0.56	120	60.0	7.4	110	13	0.6	<	<	191	2	<	10.0	-	-	40	5.2	<
130	871043	37	21	3	6	2	<	68	<	<	0.49	160	80.2	6.0	135	<	0.3	<	<	141	2	<	10.0	-	-	130	5.9	<
130	871045	66	24	34	8	12	0.6	147	2.0	14	3.36	105	31.6	12.5	510	56	<	<	14	352	3	<	10.0	-	-	30	6.5	0.08
130	871046	82	27	36	7	3	0.7	102	1.0	2	1.46	115	33.2	10.9	170	67	0.2	<	<	288	1	<	10.0	-	-	20	6.0	0.08

Map	Sample ID	ZN	UTM Easting	UTM Northing	Rock Type	Rock Age	Lake Area	Lake Dep	Rep Stat	Relief	Cont	Sample Colour	Susp Matl
130	871047	21	353739	6108768	AAsv	02	pond	12	00	Md	-	Br	-
130	871048	21	355355	6109396	AAsv	02	pond	1	00	Md	-	Br	-
130	871049	21	354706	6109987	AAsv	02	pond	4	00	Md	-	Br	-
130	871050	21	353788	6110460	AAsv	02	pond	1	00	Md	-	Br	-
130	871051	21	352170	6111199	AAvf	02	pond	2	00	Lw	-	Br	-
130	871052	21	354039	6112070	AAsv	02	.25-1	3	00	Lw	-	GnBr	-
130	871053	21	353810	6114128	AMHg	02	pond	1	00	Lw	-	GyBr	-
130	871054	21	348953	6112692	Agn	02	pond	1	00	Md	-	Br	-
130	871055	21	348464	6111365	Agn	02	.25-1	1	00	Lw	-	GnBr	-
130	871056	21	348143	6109625	Agn	02	pond	2	00	Lw	-	GnBr	-
130	871057	21	347127	6107558	Agn	02	pond	2	00	Lw	-	Br	-
130	871058	21	344745	6104563	Agn	02	pond	1	00	Lw	-	GnBr	-
130	871059	21	343473	6104104	AAs	02	pond	1	00	Lw	-	Tn	-
130	871060	21	344399	6102405	Agn	02	pond	1	00	Lw	-	Br	-
130	871062	21	342576	6101118	AHgn	01	1-5	13	00	Lw	Wo	Tn	-
130	871063	21	340357	6099224	AAs	02	pond	5	10	Md	-	Br	-
130	871064	21	340357	6099224	AAs	02	pond	5	20	Md	-	Br	-
130	871065	21	340170	6097532	AKPv	02	pond	4	00	Md	-	Br	-
130	871066	21	342962	6098046	Agn	02	pond	1	00	Lw	Wo	TnBr	-
130	871067	21	344697	6098547	Agn	02	.25-1	1	00	Lw	-	TnBr	-
130	871068	21	346223	6098708	AAvf	02	.25-1	14	00	Lw	-	Br	-
130	871069	21	347261	6098039	AAvf	02	pond	5	00	Lw	-	Br	-
130	871070	21	347506	6099412	AAvf	02	pond	2	00	Md	-	Br	-
130	871071	21	348503	6102652	AAvf	02	pond	1	00	Md	-	Br	-
130	871072	21	349878	6104426	AAvf	02	pond	8	00	Hi	-	Br	-
130	871073	21	350432	6105743	AAvf	02	pond	1	00	Hi	-	Br	-
130	871074	21	352402	6105730	Agn	02	.25-1	20	00	Md	-	Br	-
130	871075	21	351152	6105133	AAsv	02	pond	4	00	Md	-	Br	-
130	871076	21	352147	6104674	Agn	02	pond	1	00	Lw	-	TnBr	-
130	871077	21	352736	6103263	Agn	02	.25-1	3	00	Md	-	GnBr	-
130	871079	21	357884	6104778	AAsv	02	pond	1	00	Hi	-	Br	-
130	871080	21	366563	6101979	AAvf	02	pond	12	00	Md	-	Br	-
130	871082	21	369012	6099528	AMHg	02	pond	8	00	Md	-	GyBr	-
130	871083	21	366878	6099307	AMHg	02	pond	38	00	Md	-	Br	-
130	871084	21	364531	6098940	AAvf	02	pond	3	10	Md	-	Gn	-
130	871085	21	364531	6098940	AAvf	02	pond	3	20	Md	-	Gn	-
130	871086	21	358772	6103216	AAvf	02	.25-1	14	00	Md	-	Br	-
130	871087	21	357450	6099686	AAvf	02	pond	3	00	Md	-	Br	-
130	871088	21	356542	6099603	AAsv	02	.25-1	5	00	Md	-	Br	-
130	871089	21	355274	6098059	AMHg	02	pond	9	00	-	-	Br	-

	Element:	Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	W	Ba	Sn	Au	Au	Au	Au	F-W	pH	U-W
	Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	ppb		ppb
	Detection Limit:	2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	2	40	1	1-var	wght	1-var	wght	20		0.05
	Analytical Method:	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA		rpt	rpt	ISE	GCM	LIF
130	871047	92	25	38	8	5	0.5	157	2.0	3	2.12	90	36.8	19.8	230	48	0.3	0.2	<	358	3	10	10.0	1	10.0	20	6.3	0.08
130	871048	87	21	14	6	6	0.5	169	1.0	5	2.02	80	33.0	18.2	255	38	0.3	<	<	440	3	<	10.0	-	-	60	6.1	0.21
130	871049	67	13	24	8	8	0.7	167	2.0	3	1.87	55	28.0	19.9	310	38	<	<	2	580	1	<	10.0	-	-	60	6.1	0.19
130	871050	32	6	13	3	<	0.4	49	<	<	0.55	80	91.4	2.5	80	5	0.3	<	4	59	3	<	10.0	-	-	30	5.6	<
130	871051	105	23	4	8	<	0.6	55	<	<	0.58	100	42.4	77.2	180	<	0.6	<	<	675	1	<	10.0	-	-	100	5.8	0.63
130	871052	73	10	8	9	5	0.7	148	1.0	<	1.48	20	9.8	6.2	350	26	<	<	<	695	1	<	10.0	1	10.0	70	6.1	0.05
130	871053	47	6	9	8	4	<	130	1.0	<	1.25	15	5.8	3.2	305	14	<	<	<	845	<	<	10.0	<	10.0	120	5.8	0.23
130	871054	48	28	2	5	<	0.2	39	<	<	0.50	125	75.2	8.3	125	7	0.2	<	<	168	3	<	10.0	-	-	40	5.2	<
130	871055	27	8	5	6	3	<	88	1.0	<	0.98	20	17.6	2.3	250	11	<	<	2	570	1	<	10.0	-	-	60	5.6	<
130	871056	27	19	2	4	2	<	45	<	<	0.53	90	70.0	2.2	135	<	<	<	<	111	3	<	10.0	-	-	30	4.3	<
130	871057	45	22	6	4	2	0.2	18	<	<	0.32	125	74.0	2.9	75	6	0.2	<	2	70	<	<	10.0	-	-	20	4.5	<
130	871058	74	10	12	18	8	<	204	1.0	<	1.82	35	21.4	2.3	365	27	<	<	2	486	<	<	10.0	-	-	50	5.0	<
130	871059	40	5	4	8	3	<	87	1.0	<	0.86	15	5.8	1.8	270	10	<	<	<	615	<	<	10.0	<	10.0	40	5.8	<
130	871060	14	9	3	3	2	<	22	1.0	<	0.44	100	90.0	2.7	75	8	<	<	2	63	3	<	10.0	-	-	20	4.8	<
130	871062	54	14	11	16	7	<	172	1.0	<	1.43	25	6.8	3.6	310	35	<0.5	<	<	695	2	<	10.0	1	10.0	40	5.7	0.14
130	871063	82	37	32	9	3	0.3	69	1.0	3	0.60	105	50.4	11.5	170	45	0.5	<	2	168	6	<	10.0	-	-	20	5.7	<
130	871064	96	39	24	24	6	<	73	2.0	3	0.80	80	47.6	11.2	185	39	0.5	<	<	141	3	<	10.0	-	-	<	5.7	<
130	871065	97	92	11	23	9	<	100	3.0	3	1.92	75	45.2	3.9	180	42	0.4	<	<	119	5	<	10.0	-	-	<	5.9	<
130	871066	39	13	8	8	3	<	72	1.0	<	0.74	40	17.0	1.8	195	14	<	<	<	295	1	<	10.0	-	-	20	4.9	0.08
130	871067	35	7	10	7	2	<	81	<	<	0.72	40	18.8	2.8	235	14	<	<	2	545	1	<	10.0	-	-	30	4.5	<
130	871068	110	18	13	13	8	0.2	351	1.0	3	2.84	105	27.0	12.9	385	48	<	<	2	460	6	<	10.0	-	-	70	5.2	0.08
130	871069	83	18	12	7	2	<	108	<	<	0.96	90	31.4	7.8	240	23	<	<	<	225	4	<	10.0	-	-	80	5.3	0.08
130	871070	24	8	3	4	<	<	40	<	<	0.29	100	84.6	8.6	130	8	0.2	<	2	217	2	<	10.0	-	-	60	4.7	<
130	871071	31	5	2	4	<	<	33	<	<	0.56	60	89.8	1.8	80	5	<	<	2	51	4	<	10.0	-	-	60	5.2	<
130	871072	65	24	10	6	2	0.4	79	1.0	7	1.44	140	41.2	55.7	170	49	<	<	2	287	5	<	10.0	-	-	50	5.3	0.52
130	871073	34	23	6	6	2	<	57	1.0	2	1.07	95	73.4	8.1	115	16	0.2	<	2	57	<	<	10.0	-	-	60	5.4	<
130	871074	192	61	67	10	16	0.3	342	2.0	21	6.78	120	33.8	37.3	340	73	0.4	<	2	92	3	<	10.0	-	-	30	5.7	0.12
130	871075	119	24	16	7	9	<	324	2.0	22	2.95	65	23.6	27.2	350	53	<	<	2	419	2	<	10.0	-	-	40	5.4	0.11
130	871076	64	13	13	8	2	<	68	1.0	3	0.90	40	19.0	10.9	265	18	<	<	<	498	2	<	10.0	-	-	40	5.6	0.17
130	871077	87	15	15	11	4	<	128	<	4	1.41	35	17.8	9.3	325	31	<	<	<	498	2	<	10.0	-	-	50	5.5	0.19
130	871079	60	23	6	11	5	<	174	1.0	16	1.00	85	61.6	17.8	115	29	0.5	<	<	270	2	<	10.0	-	-	80	6.1	0.16
130	871080	226	21	26	7	8	0.3	286	1.0	15	3.93	110	35.0	527.0	590	27	1.6	0.2	2	505	4	<	10.0	-	-	80	6.2	0.34
130	871082	191	42	42	9	4	0.2	121	2.0	2	1.05	50	8.2	28.4	290	30	0.3	0.2	2	525	2	<	10.0	-	-	70	5.9	0.40
130	871083	488	58	54	11	11	0.4	421	3.0	18	3.02	115	25.2	206.0	390	38	2.7	0.2	2	266	3	<	10.0	-	-	70	6.0	0.26
130	871084	1640	62	352	14	4	0.3	59	2.0	18	1.15	145	60.0	120.0	150	53	9.1	<	2	167	4	1	10.0	-	-	40	5.4	0.64
130	871085	1450	56	272	13	4	0.3	64	1.0	16	1.04	130	62.0	97.1	140	49	8.5	<	<	158	4	<	10.0	-	-	40	5.4	0.58
130	871086	199	25	16	19	12	<	655	2.0	8	3.02	45	7.8	18.9	475	46	0.2	0.2	2	935	3	<	10.0	-	-	100	5.7	0.38
130	871087	105	26	7	7	<	0.2	26	<	5	0.19	80	52.8	21.5	105	14	0.6	<	<	217	5	<	10.0	-	-	70	5.4	0.61
130	871088	112	24	13	5	5	<	471	2.0	14	3.63	30	9.0	61.8	335	40	<	0.2	2	610	3	<	10.0	-	-	50	5.5	0.55
130	871089	125	13	10	7	5	<	173	2.0	3	4.88	45	26.8	29.9	285	57	<	<	<	346	3	<	10.0	-	-	30	5.5	0.22

National Geochemical Reconnaissance Lake Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J, 130
Field Data

Map	Sample ID	ZN	UTM Easting	UTM Northing	Rock Type	Rock Age	Lake Area	Lake Dep	Rep Stat	Relief	Cont	Sample Colour	Susp Matl
130	871090	21	354392	6097323	AMHg	02	.25-1	1	00	Md	-	Br	-
130	871091	21	359243	6099865	AAvf	02	.25-1	6	00	Hi	-	Br	-
130	871092	21	360306	6103499	AAvf	02	pond	2	00	Hi	-	Br	-
130	871093	21	362306	6100858	Agn	02	1-5	35	00	Md	-	GnBr	-
130	871094	21	363409	6098543	AAsv	02	pond	3	00	Md	Ca	Br	-
130	871095	21	362664	6097563	AAsv	02	pond	1	00	Hi	-	Br	Hvy
130	871096	21	360751	6096876	AAsv	02	pond	3	00	Hi	-	Br	-
130	871098	21	362650	6117314	AAvf	02	pond	2	00	Hi	-	Br	-

National Geochemical Reconnaissance Lake Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J, 130
Analytical Data

	Element:	Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	W	Ba	Sn	Au	Au	Au	Au	F-W	pH	U-W
	Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	ppb		ppb
	Detection Limit:	2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	2	40	1	1-var	wght	1-var	wght	20		0.05
	Analytical Method:	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA		rpt	rpt	ISE	GCM	LIF
130	871090	43	8	7	5	2	<	65	1.0	2	1.37	40	16.2	35.5	255	42	<	<	<	446	3	<	10.0	-	-	60	5.4	0.42
130	871091	169	19	17	8	4	<	147	1.0	15	1.58	40	12.4	37.9	335	29	0.2	<	2	530	2	<	10.0	-	-	150	5.5	0.96
130	871092	151	34	7	10	2	<	71	<	18	0.56	85	33.0	25.7	195	16	0.6	<	2	276	3	<	10.0	-	-	120	5.5	0.41
130	871093	467	34	31	14	15	0.2	6454	3.0	38	4.41	65	12.2	37.9	415	46	1.1	0.2	2	825	2	<	10.0	-	-	100	6.0	0.36
130	871094	2600	55	257	14	5	0.6	83	1.0	15	0.66	120	58.6	92.7	150	40	10.2	0.2	2	190	3	<	10.0	-	-	50	5.5	0.37
130	871095	57	7	5	4	<	<	52	<	3	0.35	55	70.4	4.3	90	11	0.3	<	2	213	4	<	10.0	-	-	30	4.8	0.71
130	871096	382	187	7	16	6	0.3	70	1.0	133	1.86	70	43.2	141.0	270	38	1.0	<	2	139	3	<	10.0	-	-	60	5.4	0.51
130	871098	424	53	23	11	5	<	98	<	68	1.11	100	30.6	26.5	305	20	2.6	<	2	338	2	<	10.0	-	-	110	6.6	0.14

Map	Sample ID	ZN	UTM Easting	UTM Northing	Rock Type	Rock Age	Stream Wid	Stream Dep	RS	Sample Type	Cont	Bank Type	Water Col	Flow Rate	Sed Col	Sed Comp	Pcpt Col	Bank Stain	Strm Phys	Drain Ptrn	Stream Type	Stream Class	Water Source
13J	873002	21	370265	6093053	AAb	02	4	4	00	Sed/Wat	0	2	Clear	Slow	Bf-Bn	122	None	None	2	1	2	1	1
13J	873003	21	373853	6094044	AAsv	02	4	5	00	Sed/Wat	0	2	Bn Trans	Slow	Bf-Bn	221	None	None	3	1	1	1	1
13J	873004	21	377008	6090792	ABmg	02	5	5	00	Sed/Wat	0	2	Bn Trans	Slow	Bf-Bn	121	None	None	3	1	2	1	1
13J	873005	21	371603	6089794	AAb	02	40	8	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	121	None	None	3	1	1	3	1
13J	873007	21	366922	6090833	AAvf	02	30	2	10	Sed/Wat	0	2	Clear	Mod	Bf-Bn	121	Rd-Bn	None	3	1	1	2	1
13J	873008	21	366922	6090833	AAvf	02	30	2	20	Sed/Wat	0	2	Clear	Mod	Bf-Bn	121	Rd-Bn	None	3	1	1	2	1
13J	873009	21	365801	6093216	AAb	02	35	3	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	120	Rd-Bn	None	3	1	1	2	1
13J	873010	21	367195	6096387	AAb	02	25	3	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	121	None	None	3	1	1	2	1
13J	873011	21	363894	6093009	AAvf	02	20	4	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	Rd-Bn	None	3	1	1	2	1
13J	873012	21	365601	6090842	AAvf	02	25	4	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	320	Rd-Bn	None	3	1	1	1	1
13J	873013	21	365662	6085972	AMHg	02	30	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	Rd-Bn	None	3	1	1	1	1
13J	873014	21	372608	6087894	AAb	02	10	3	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	220	Rd-Bn	None	4	1	1	1	1
13J	873015	21	374538	6088111	AAb	02	25	7	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	320	Rd-Bn	None	3	1	1	3	1
13J	873016	21	377919	6085623	ABmg	02	15	5	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	221	Rd-Bn	None	3	1	1	2	1
13J	873017	21	374758	6084531	ABmg	02	15	5	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	121	Rd-Bn	None	3	1	1	2	1
13J	873018	21	374520	6082183	AAb	02	7	7	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	221	None	None	3	1	1	1	1
13J	873019	21	370569	6085211	AAb	02	10	7	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	320	Rd-Bn	None	3	1	1	1	1
13J	873020	21	369183	6084844	AAsv	02	4	2	00	Sed/Wat	0	2	Bn Trans	Slow	Bf-Bn	022	None	None	3	1	1	1	1
13J	873022	21	369551	6083815	AAsv	02	50	7	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	211	None	None	3	1	1	2	1
13J	873023	21	367482	6084047	AAb	02	30	5	10	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	None	None	3	1	1	2	1
13J	873024	21	367482	6084047	AAb	02	30	5	20	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	None	None	3	1	1	2	1
13J	873025	21	364087	6083231	ABmg	02	50	6	00	Sed/Wat	0	2	Clear	Fast		320	None	None	3	1	1	3	1
13J	873026	21	362816	6088428	AAvf	02	15	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	320	None	None	4	1	1	1	1
13J	873027	21	361195	6091497	AAvf	02	60	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	310	Rd-Bn	None	3	1	1	2	1
13J	873028	21	361717	6093679	AAvf	02	20	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	310	Rd-Bn	None	3	1	1	1	1
13J	873029	21	361685	6096074	AAvm	02	300	6	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	310	None	None	3	1	1	3	1
13J	873030	21	344732	6095608	AAvf	02	9	3	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	012	None	None	3	1	1	1	1
13J	873031	21	341578	6096370	AHgn	01	21	5	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	None	None	3	1	1	2	1
13J	873032	21	343448	6092594	AAvf	02	25	3	00	Sed/Wat	0	2	Clear	Fast	Bf-Bn	220	Rd-Bn	None	3	1	1	2	1
13J	873033	21	342000	6091352	Agn	02	15	4	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	121	None	None	3	1	1	1	1
13J	873034	21	340636	6090718	Agn	02	50	3	00	Sed/Wat	0	2	Bn Trans	Slow	Bf-Bn	023	None	None	3	1	1	2	1
13J	873035	21	340638	6086137	AHgn	01	20	3	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	300	None	None	3	1	1	1	1
13J	873036	21	341594	6087278	AHgn	01	15	14	00	Sed/Wat	0	2	Clear	Slow	Bf-Bn	030	None	None	3	1	1	1	1
13J	873038	21	341994	6088199	AHgn	01	20	12	00	Sed/Wat	0	2	Clear	Slow	Bf-Bn	021	None	None	3	1	1	2	1
13J	873039	21	346567	6091314	AAsv	02	15	4	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	221	Rd-Bn	None	3	1	1	1	1
13J	873040	21	348330	6091464	AAsv	02	15	3	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	122	Rd-Bn	None	3	1	1	1	1
13J	873042	21	359844	6094794	AAsv	02	25	2	10	Sed/Wat	0	2	Clear	Mod	Bf-Bn	221	None	None	3	1	1	1	1
13J	873043	21	359844	6094794	AAsv	02	25	2	20	Sed/Wat	0	2	Clear	Mod	Bf-Bn	221	None	None	3	1	1	1	1
13J	873044	21	359228	6094009	AAvf	02	35	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	Rd-Bn	None	3	1	1	1	1
13J	873045	21	360153	6091610	AAvf	02	40	3	00	Sed/Wat	0	2	Clear	Fast	Bf-Bn	221	Rd-Bn	None	3	1	1	2	1

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J 13O

Analytical Data

		Sediment																					Water					
Element:		Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	W	Ba	Sn	Au	Au	Au	Au	F-W	pH	U-W
Units:		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	ppb		ppb
Detection Limit:		2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	2	40	1	1-var	wght	1-var	wght	20		0.05
Analytical Method:		AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA		rpt	rpt	ISE	GCM	LIF
13J	873002	29	4	4	<	6	0.2	322	7.0	<	6.99	20	11.4	1.9	200	44	<	<	2	505	15	<	10.0	-	-	50	5.3	0.08
13J	873003	21	6	6	<	7	<	192	1.0	<	2.00	30	8.0	1.4	395	37	<	<	2	525	4	<	10.0	-	-	20	5.1	<
13J	873004	15	4	4	<	<	<	52	1.0	<	1.06	35	8.0	3.1	255	16	<	<	2	630	3	<	10.0	-	-	60	4.7	0.23
13J	873005	111	16	25	7	16	<	626	3.0	<	2.69	55	21.2	21.0	305	33	<	<	<	570	2	<	10.0	-	-	60	5.9	0.19
13J	873007	55	8	10	<	3	<	227	2.0	3	1.12	20	4.4	14.4	230	18	<	<	2	454	1	<	10.0	-	-	130	6.4	1.10
13J	873008	54	7	9	<	2	0.2	205	2.0	2	1.10	10	4.4	13.3	200	17	<	<	2	590	2	<	10.0	-	-	130	6.3	1.25
13J	873009	131	9	12	<	2	<	185	1.0	<	1.16	25	3.6	12.0	225	12	<	<	2	520	2	<	10.0	-	-	100	6.5	0.31
13J	873010	38	7	6	<	2	<	100	1.0	<	1.35	10	2.8	4.1	200	21	<	<	2	511	1	<	10.0	-	-	60	6.6	<
13J	873011	145	13	9	<	<	<	96	2.0	<	1.42	15	5.2	23.6	205	15	<	<	<	346	2	<	10.0	-	-	120	6.4	0.23
13J	873012	119	10	14	4	6	0.2	420	3.0	10	1.72	25	5.4	31.6	260	20	<	<	4	610	1	<	10.0	-	-	160	6.3	0.71
13J	873013	88	11	17	3	6	<	406	2.0	<	1.68	35	10.6	14.9	355	24	<	<	2	595	2	<	10.0	-	-	140	6.1	0.29
13J	873014	19	6	6	2	6	<	233	1.0	<	1.99	10	6.2	3.7	300	29	<	<	2	665	1	<	10.0	-	-	40	5.3	<
13J	873015	30	6	3	2	<	<	76	1.0	<	1.57	20	7.0	2.1	315	20	<	<	<	755	<	<	10.0	-	-	30	5.7	<
13J	873016	42	7	14	<	3	<	514	1.0	6	2.39	50	15.0	7.2	360	26	<	<	2	595	1	<	10.0	-	-	320	5.5	<
13J	873017	17	6	6	<	<	<	66	1.0	<	1.56	30	11.4	3.1	200	31	<	<	<	650	2	<	10.0	-	-	130	5.1	<
13J	873018	18	4	5	4	3	<	74	<	<	0.95	20	7.8	2.2	270	10	<	<	2	693	2	<	10.0	-	-	50	4.7	0.46
13J	873019	16	6	4	7	5	<	103	1.0	<	1.92	15	3.4	2.9	290	22	<	<	<	670	<	<	10.0	-	-	30	5.5	<
13J	873020	32	9	17	<	4	<	321	3.0	<	18.45	90	47.4	16.9	75	56	<	<	2	252	3	2	10.0	-	-	40	5.2	0.05
13J	873022	22	4	6	4	5	<	238	1.0	<	1.85	25	6.2	2.8	240	26	<	<	2	730	2	<	10.0	-	-	70	5.4	<
13J	873023	72	33	12	33	22	<	676	4.0	<	2.34	20	5.4	6.0	335	19	<	<	2	400	2	<	10.0	-	-	100	5.6	0.30
13J	873024	82	38	19	38	26	<	735	5.0	3	2.73	20	4.6	5.5	345	25	<	<	2	369	1	<	10.0	-	-	100	5.8	0.35
13J	873025	108	15	16	10	12	<	634	2.0	3	2.30	25	6.2	6.8	315	30	<	<	2	625	1	<	10.0	-	-	120	5.9	0.18
13J	873026	512	50	52	9	11	0.4	800	7.0	16	2.26	75	16.6	46.6	300	27	1.3	<	4	580	2	<	10.0	-	-	290	6.1	0.65
13J	873027	129	9	12	3	5	<	837	2.0	5	1.44	15	3.2	16.8	260	14	<	<	2	635	1	<	10.0	-	-	130	6.2	1.19
13J	873028	158	13	13	3	6	<	408	2.0	4	2.13	55	4.8	26.6	315	16	0.6	<	2	570	2	<	10.0	-	-	130	6.1	1.55
13J	873029	181	26	26	9	12	<	732	6.0	8	2.35	25	6.8	28.7	510	29	0.4	<	<	545	1	<	10.0	-	-	130	6.0	0.15
13J	873030	29	6	28	3	3	<	216	2.0	5	2.72	35	17.2	6.7	300	27	<	<	2	590	1	<	10.0	-	-	80	5.3	0.12
13J	873031	30	7	12	4	9	<	387	5.0	4	2.57	15	6.0	5.9	360	29	<	<	2	620	2	<	10.0	-	-	40	5.5	<
13J	873032	38	6	14	5	9	<	676	2.0	3	2.25	25	7.4	6.7	265	22	<	<	<	750	1	<	10.0	-	-	70	5.5	0.07
13J	873033	14	2	7	3	<	<	52	<	<	0.74	20	6.4	2.5	195	9	0.2	<	2	785	2	<	10.0	-	-	50	4.6	0.17
13J	873034	20	4	7	4	2	<	81	1.0	<	1.13	10	2.4	2.9	240	12	<	<	<	770	2	<	10.0	-	-	50	5.4	<
13J	873035	50	7	14	4	8	<	542	2.0	7	3.24	30	9.9	8.2	320	23	0.7	<	2	640	1	<	10.0	-	-	70	5.6	0.12
13J	873036	43	6	15	5	3	<	109	1.0	2	1.34	20	9.0	7.5	260	16	<	<	2	835	2	<	10.0	-	-	90	5.5	0.14
13J	873038	22	4	8	6	2	<	108	1.0	<	0.89	15	2.4	4.0	365	9	<	<	<	885	1	<	10.0	-	-	60	5.7	0.07
13J	873039	23	4	13	3	4	<	262	2.0	6	2.64	25	9.4	7.6	205	26	<	<	4	615	2	<	10.0	-	-	70	5.4	0.09
13J	873040	33	4	13	3	5	<	272	1.0	4	2.07	30	7.6	16.8	200	13	<	<	<	555	1	<	10.0	-	-	120	5.5	0.62
13J	873042	103	14	17	<	5	<	358	5.0	4	1.49	20	6.2	62.7	190	10	<	<	4	585	2	<	10.0	-	-	130	5.9	0.48
13J	873043	123	20	22	<	5	0.2	461	6.0	6	1.59	35	9.6	79.9	235	12	<	<	4	494	3	<	10.0	-	-	130	5.8	0.45
13J	873044	117	22	35	<	4	0.2	389	2.0	6	1.39	80	29.8	63.5	230	14	<	<	2	371	2	<	10.0	-	-	170	5.9	1.00
13J	873045	192	24	55	3	9	0.2	573	5.0	5	3.03	105	26.4	51.7	285	27	<	<	2	317	3	<	10.0	-	-	140	5.9	0.50

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J 130
Field Data

Map	Sample ID	ZN	UTM Easting	UTM Northing	Rock Type	Rock Age	Stream Wid	Stream Dep	RS	Sample Type	Cont	Bank Type	Water Col	Flow Rate	Sed Col	Sed Comp	Pcpt Col	Bank Stain	Strm Phys	Drain Ptrn	Stream Type	Stream Class	Water Source
13J	873046	21	360412	6088014	AAvf	02	10	2	00	Sed/Wat	0	2	Clear	Fast	Bf-Bn	220	None	None	3	1	1	1	1
13J	873047	21	360413	6085442	AAvf	02	12	3	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	221	Rd-Bn	None	3	1	1	1	1
13J	873048	21	360688	6080894	AAvf	02	20	10	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	220	None	None	3	1	1	2	1
13J	873049	21	359928	6080851	AAvf	02	10		00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	120	None	None	3	1	1	2	1
13J	873050	21	358449	6087740	AAvf	02	25		00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	Rd-Bn	None	3	1	1	2	1
13J	873052	21	357049	6090255	AAvf	02	10	3	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	310	None	None	3	1	1	2	1
13J	873053	21	353200	6091307	ABmg	02	25	5	00	Sed/Wat	0	2	Clear	Fast	Bf-Bn	220	Rd-Bn	None	3	1	1	2	1
13J	873054	21	356753	6093664	AMHg	02	10	3	00	Sed/Wat	0	2	Clear	Slow	Bf-Bn	320	None	None	3	1	1	1	1
13J	873055	21	355189	6095854	AMHg	02	15	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	320	Rd-Bn	None	3	1	1	1	1

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J 13O

Analytical Data

		Sediment																				Water					
Element:		Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	W	Ba	Sn	Au	Au	Au	Au	F-W	pH	U-W
Units:		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	ppb		ppb
Detection Limit:		2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	2	40	1	1-var	wght	1-var	wght	20		0.05
Analytical Method:		AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA		rpt	rpt	ISE	GCM	LIF
13J	873046	53	7	7	<	3	<	106	1.0	<	1.12	10	1.8	7.3	270	16	<	<	2	755	2	<	10.0	-	-	150	6.0	1.00
13J	873047	168	13	16	2	15	<	849	3.0	9	3.62	50	13.6	16.3	285	36	<	<	2	590	3	<	10.0	-	-	140	6.0	0.34
13J	873048	22	6	9	<	7	<	250	1.0	<	1.59	25	5.4	4.1	220	14	<	<	<	690	1	<	10.0	-	-	110	5.7	<
13J	873049	58	10	10	<	8	<	290	1.0	2	2.95	35	7.4	6.3	275	24	<	<	2	635	2	<	10.0	-	-	120	5.9	0.12
13J	873050	103	16	37	<	7	<	390	4.0	15	4.47	105	36.8	29.2	250	38	<	<	2	364	2	<	10.0	-	-	130	5.5	0.19
13J	873052	571	36	69	7	21	<	2182	4.0	15	4.67	90	18.8	62.8	430	36	0.3	<	4	461	4	<	7.50	-	-	180	6.3	0.28
13J	873053	76	9	26	<	12	<	814	2.0	3	3.01	40	14.6	22.3	250	27	<	<	2	545	2	<	10.0	-	-	160	6.0	0.45
13J	873054	36	4	11	<	<	<	118	1.0	4	1.62	10	3.6	27.0	270	11	<	<	2	625	2	<	10.0	-	-	180	5.7	1.32
13J	873055	39	5	18	<	<	<	96	1.0	3	1.14	20	6.6	31.8	150	13	<	<	<	575	2	<	10.0	-	-	100	5.6	2.08

Map	Sample ID	ZN	UTM Easting	UTM Northing	Rock Type	Rock Age	Stream Wid	Stream Dep	RS	Sample Type	Sample Cont	Bank Type	Water Col	Flow Rate	Sed Col	Sed Comp	Pcpt Col	Bank Stain	Strm Phys	Drain Ptrn	Stream Type	Stream Class	Water Source
130	873002	21	367564	6106970	AAvf	02	30	4	00	Sed/Wat	0	5	Clear	Fast	Bn	310	None	None	3	1	1	2	1
130	873003	21	367473	6106183	AAvf	02	30	3	00	Sed/Wat	0	5	Clear	Fast	Bn	220	None	None	3	1	1	2	1
130	873004	21	367295	6105839	AAvf	02	35	4	00	Sed/Wat	0	5	Clear	Fast	Bn	320	None	None	3	1	1	2	1
130	873005	21	368274	6104555	AAvf	02	20	2	10	Sed/Wat	0	5	Clear	Fast	Bn	130	None	None	3	1	1	2	1
130	873006	21	368274	6104555	AAvf	02	20	2	20	Sed/Wat	0	5	Clear	Fast	Bn	130	None	None	3	1	1	2	1
130	873007	21	370730	6109070	AAvf	02	15	2	00	Sed/Wat	0	5	Clear	Fast	Bn	220	None	None	3	1	1	1	1
130	873008	21	372045	6109185	AAvf	02	30	5	00	Sed/Wat	0	5	Clear	Fast	Bn	220	None	None	3	1	1	2	1
130	873009	21	372477	6108651	AAvf	02	10	3	00	Sed/Wat	0	5	Clear	Fast	Bf-Bn	220	None	None	3	1	1	1	1
130	873010	21	372328	6107436	AAvf	02	20	4	00	Sed/Wat	0	5	Clear	Fast	Bf-Bn	130	None	None	3	1	1	3	1
130	873011	21	347181	6109601	Agn	02	10	12	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	310	None	None	3	1	1	1	1
130	873012	21	356773	6109322	AAsv	02	10	1	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	220	None	None	2	1	1	1	1
130	873013	21	355776	6110223	Agn	02	10	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	320	Rd-Bn	None	3	1	1	2	1
130	873014	21	354770	6109744	AAsv	02	10	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	031	None	None	3	1	1	2	1
130	873015	21	352867	6109636	AAsv	02	12	1	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	220	None	None	2	1	1	1	1
130	873016	21	354520	6111210	AAsv	02	30	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	None	None	2	1	1	2	1
130	873017	21	354446	6111308	AAsv	02	30	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	None	None	2	1	1	2	1
130	873018	21	353886	6113664	AAsv	02	25	5	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	130	None	None	2	1	1	2	1
130	873019	21	354700	6114770	Agn	02	20	8	00	Sed/Wat	0	7	Clear	Mod	Bf-Bn	320	Rd-Bn	None	1	1	1	1	1
130	873022	21	354698	6114856	Agn	02	10	5	10	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	131	Rd-Bn	None	2	1	1	1	1
130	873023	21	354698	6114856	Agn	02	10	5	20	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	131	Rd-Bn	None	2	1	1	1	1
130	873024	21	354838	6116637	AMHg	02	10	3	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	221	None	None	3	1	1	2	1
130	873025	21	355891	6118978	AAsv	02	10	2	00	Sed/Wat	0	5	Clear	Fast	Bf-Bn	121	None	None	4	1	1	1	1
130	873026	21	357075	6119937	AAsv	02	20	10	00	Sed/Wat	0	2	Clear	Mod	Bk	022	None	None	3	1	1	1	1
130	873027	21	357597	6117483	AAsv	02	10	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	030	None	None	2	1	1	1	1
130	873029	21	357702	6117081	AAsv	02	10	10	00	Sed/Wat	0	2	Bn Trans	Slow	Bf-Bn	022	None	None	2	1	1	1	1
130	873030	21	357756	6115127	AAsv	02	20	3	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	320	Rd-Bn	None	3	1	1	1	1
130	873031	21	358739	6113763	AAvf	02	15	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	Rd-Bn	RdBn	3	1	1	1	1
130	873032	21	361667	6119693	AAvf	02	20	2	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	320	Rd-Bn	RdBn	3	1	1	1	1
130	873033	21	363830	6117306	AAvf	02	5	1	00	Sed/Wat	0	5	Clear	Mod	Bf-Bn	131	###	None	4	1	1	1	1
130	873034	21	363321	6114623	AAvf	02	20	4	00	Sed/Wat	0	5	Clear	Fast	Bf-Bn	320	None	None	4	1	1	1	1
130	873035	21	360222	6112619	AAvf	02	30	5	00	Sed/Wat	2	2	Clear	Mod	Bf-Bn	220	Bf-Bn	None	3	1	1	1	1
130	873036	21	360155	6112318	AAvf	02	10	1	00	Sed/Wat	2	2	Bn Trans	Mod	Rd-Bn	130	Bf-Bn	None	2	1	1	1	1
130	873037	21	358583	6110234	AAsv	02	15	5	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	320	None	None	3	1	1	1	1
130	873038	21	355405	6106886	AAsv	02	21	2	00	Sed/Wat	0	2	Clear	Fast	Bf-Bn	220	Rd-Bn	None	3	1	1	2	1
130	873039	21	355048	6105861	Agn	02	5	1	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	320	None	None	3	1	1	1	1
130	873040	21	354827	6105212	Agn	02	12	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	130	None	None	4	1	1	1	1
130	873042	21	354053	6103282	AAvm	02	50	5	10	Sed/Wat	0	5	Clear	Fast	Bf-Bn	031	None	None	3	1	1	2	1
130	873043	21	354053	6103282	AAvm	02	50	5	20	Sed/Wat	0	5	Clear	Fast	Bf-Bn	031	None	None	3	1	1	2	1
130	873044	21	350581	6100573	Agn	02	30	4	00	Sed/Wat	0	2	Clear	Fast	Gy-Bl	130	Rd-Bn	None	3	1	1	3	1
130	873045	21	350231	6101785	Agn	02	5	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	131	None	None	3	1	1	1	1

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J 13O

Analytical Data

		Sediment																						Water		
Element:		Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	W	Ba	Sn	Au	Au	Au	Au	F-W	pH	U-W
Units:		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	ppb		ppb
Detection Limit:		2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	2	40	1	1-var	wght	1-var	wght	20		0.05
Analytical Method:		AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA		rpt	rpt	ISE	GCM	LIF
130	873002	365	14	40	8	13	<	1065	3.0	12	2.91	55	7.6	18.7	270	31	1.1	<	2	545	3	<	10.0	-	-	180	6.3	0.90
130	873003	220	11	50	5	3	0.2	306	5.0	19	1.87	70	6.6	15.1	315	17	0.4	<	4	403	1	<	10.0	-	-	170	6.3	0.57
130	873004	233	12	72	7	5	0.2	539	5.0	13	3.04	60	10.4	10.2	290	25	0.4	<	4	520	3	<	10.0	-	-	110	6.1	0.36
130	873005	140	19	39	12	6	<	482	7.0	3	2.64	65	10.8	24.7	285	36	<	<	2	482	2	<	10.0	-	-	70	6.1	0.38
130	873006	138	15	40	9	5	<	535	5.0	3	2.12	45	13.8	23.4	345	30	0.2	<	8	545	2	<	10.0	-	-	60	6.2	0.28
130	873007	175	16	37	2	5	0.2	545	3.0	13	2.47	110	17.4	78.3	255	24	0.4	<	4	520	2	<	10.0	-	-	220	6.4	1.03
130	873008	135	11	21	5	4	<	297	3.0	5	2.11	25	3.2	16.8	270	20	0.3	<	4	492	2	<	10.0	-	-	170	6.4	2.62
130	873009	121	8	13	5	2	<	205	3.0	3	1.47	25	5.0	10.5	220	19	<	<	2	447	1	<	10.0	-	-	280	6.2	2.19
130	873010	80	13	12	8	3	<	407	6.0	2	1.68	20	2.9	7.6	280	20	<	<	2	500	1	<	10.0	-	-	130	6.2	0.30
130	873011	22	4	8	2	<	<	70	<	<	0.96	20	11.6	2.1	140	11	<	<	2	850	2	<	10.0	-	-	40	4.4	0.12
130	873012	23	6	14	<	<	<	97	1.0	<	1.32	25	8.0	3.3	145	18	<	<	2	765	2	<	10.0	-	-	130	5.9	0.65
130	873013	38	5	15	4	5	<	373	2.0	<	2.43	35	7.8	6.0	220	27	<	<	2	735	1	<	10.0	-	-	90	5.8	0.21
130	873014	40	13	21	4	22	<	3542	4.0	13	3.09	75	18.4	18.1	295	33	<	<	6	814	1	<	10.0	-	-	60	6.2	0.55
130	873015	22	3	6	<	4	<	344	2.0	<	2.01	20	4.0	7.1	205	22	<	<	<	610	2	<	10.0	-	-	50	6.3	0.11
130	873016	41	6	7	5	6	<	356	2.0	<	1.96	20	4.6	5.0	260	26	<	<	2	730	1	<	10.0	-	-	60	6.1	0.29
130	873017	31	5	7	4	5	<	298	2.0	<	1.71	20	4.2	4.2	285	23	<	<	2	675	<	<	10.0	-	-	70	6.1	0.25
130	873018	64	9	19	8	10	<	587	4.0	3	3.41	50	13.6	5.2	300	36	<	<	2	595	1	<	10.0	-	-	60	6.0	0.17
130	873019	20	2	9	<	<	<	159	1.0	<	1.41	25	7.4	4.0	210	15	<	0.2	4	535	2	<	10.0	-	-	130	5.9	0.16
130	873022	58	5	18	<	8	<	760	2.0	2	3.91	25	8.2	3.6	265	42	<	<	2	595	<	<	10.0	-	-	110	6.2	<
130	873023	59	4	14	<	12	<	510	1.0	2	2.79	25	6.8	3.7	215	31	<	<	4	673	3	<	10.0	-	-	110	6.1	<
130	873024	75	14	25	3	<	<	203	4.0	<	2.52	80	37.4	4.8	265	36	<	<	2	505	1	<	7.50	-	-	70	6.1	<
130	873025	130	20	29	13	27	<	2320	3.0	5	6.52	90	28.2	8.2	390	82	<	<	2	575	3	<	10.0	-	-	50	6.1	<
130	873026	51	22	17	4	7	<	494	2.0	2	1.44	165	68.2	7.0	125	20	<	<	<	234	ns	<	10.0	-	-	60	6.2	<
130	873027	48	16	8	16	7	<	227	2.0	<	2.20	<	1.6	2.6	390	29	<	<	<	815	<	<	10.0	-	-	50	6.1	<
130	873029	39	8	12	14	6	<	403	3.0	<	2.86	25	10.4	3.2	340	28	<	<	2	775	1	<	10.0	-	-	60	6.5	0.12
130	873030	48	5	17	5	7	<	534	1.0	<	2.08	20	8.6	7.8	295	22	<	<	<	720	3	<	10.0	-	-	170	6.4	0.66
130	873031	40	5	15	4	3	<	142	1.0	3	1.82	20	4.7	5.4	280	26	<	<	2	588	<	<	10.0	-	-	120	6.2	0.46
130	873032	123	12	19	6	13	<	493	3.0	19	3.45	45	11.4	17.2	270	34	<	<	4	945	1	<	10.0	-	-	80	6.4	1.25
130	873033	563	20	42	52	18	<	919	4.0	10	3.71	60	16.0	14.8	915	56	0.5	<	2	225	<	<	10.0	-	-	100	6.3	0.12
130	873034	175	7	23	4	4	<	243	3.0	9	1.79	20	3.2	4.1	245	11	<	<	2	595	<	2	10.0	<	10.0	170	6.2	0.10
130	873035	346	13	28	8	11	<	1938	3.0	17	4.10	85	15.0	11.8	305	38	0.5	<	2	500	<	<	10.0	-	-	100	6.3	0.20
130	873036	42	4	9	2	4	<	379	2.0	5	2.56	20	6.4	5.2	220	20	<	<	2	545	<	<	10.0	-	-	80	6.0	0.24
130	873037	35	8	12	3	8	<	329	2.0	<	1.76	20	6.8	4.5	240	25	<	<	<	660	<	<	10.0	-	-	50	5.8	0.20
130	873038	22	9	13	5	3	<	117	1.0	<	1.73	<	3.8	6.8	340	28	<	<	6	555	1	<	10.0	-	-	30	5.8	0.21
130	873039	26	18	13	8	7	<	117	1.0	2	1.68	10	3.6	6.5	400	30	<	<	2	545	<	<	10.0	-	-	70	5.7	1.14
130	873040	56	13	14	9	6	<	163	1.0	2	1.69	25	5.8	16.3	335	21	<	<	4	675	<	<	10.0	-	-	120	5.9	1.83
130	873042	23	4	14	5	2	<	102	1.0	<	1.46	25	13.4	4.5	270	21	<	<	<	585	<	<	10.0	-	-	50	5.5	0.14
130	873043	24	4	10	4	2	<	81	1.0	<	1.14	20	12.4	3.8	270	16	<	<	<	560	1	<	10.0	-	-	80	5.6	0.19
130	873044	31	8	7	7	5	<	169	1.0	<	1.68	<	2.8	2.7	300	18	<	<	<	900	<	<	10.0	-	-	80	5.8	0.23
130	873045	16	2	12	<	<	<	70	1.0	<	3.35	45	13.6	2.6	155	27	<	<	<	615	<	<	10.0	-	-	50	4.9	0.19

Map	Sample ID	ZN	UTM Easting	UTM Northing	Rock Type	Rock Age	Stream Wid	Stream Dep	Stream RS	Sample Type	Bank Cont	Bank Type	Water Col	Flow Rate	Sed Col	Sed Comp	Pcpt Col	Bank Stain	Strm Phys	Drain Ptrn	Stream Type	Stream Class	Water Source
130	873046	21	350024	6101970	Agn	02	27	4	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	221	Rd-Bn	None	3	1	1	1	1
130	873047	21	349418	6101590	Agn	02	12	3	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	122	Rd-Bn	None	3	1	1	1	1
130	873048	21	349153	6100872	Agn	02	6	3	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	022	None	None	2	1	1	1	1
130	873049	21	346931	6100788	AAvf	02	25	3	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	121	Rd-Bn	None	3	1	1	2	1
130	873050	21	345545	6101036	Agn	02	9	6	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	131	None	None	3	1	1	1	1
130	873051	21	346045	6099799	Agn	02	45	8	00	Sed/Wat	0	2	Bn Trans	Fast	Bf-Bn	131	Rd-Bn	None	2	1	1	3	1
130	873052	21	345964	6097751	AAvf	02	12	6	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	130	None	None	3	1	1	1	1
130	873053	21	344295	6097539	Agn	02	18	8	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	221	None	None	3	1	1	2	1
130	873054	21	344491	6099106	Agn	02	8	4	00	Sed/Wat	0	2	Bn Trans	Slow	Bf-Bn	022	None	None	1	1	2	1	1
130	873055	21	342295	6100000	AHgn	01	12	3	00	Sed/Wat	1	2	Bn Trans	Mod	Bf-Bn	022	Rd-Bn	None	2	1	1	2	1
130	873056	21	341810	6099883	AHgn	01	30	9	00	Sed/Wat	1	2	Clear	Mod	Bf-Bn	121	None	None	3	1	1	1	1
130	873057	21	343267	6101363	AHgn	01	10	2	00	Sed/Wat	0	2	Bn Trans	Slow	Bf-Bn	310	None	None	3	1	1	1	1
130	873059	21	345314	6104062	Agn	02	10	2	00	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	022	None	None	2	1	1	1	1
130	873060	21	349094	6106505	AAvf	02	12	2	00	Sed/Wat	0	5	Bn Trans	Fast	Bf-Bn	122	Rd-Bn	None	3	1	1	1	1
130	873062	21	349215	6106679	AAvf	02	10	3	00	Sed/Wat	0	5	Bn Trans	Fast	Bf-Bn	122	Rd-Bn	None	3	1	1	1	1
130	873063	21	352020	6109232	AAvf	02	24	4	10	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	022	None	None	4	1	1	2	1
130	873064	21	352020	6109232	AAvf	02	24	4	20	Sed/Wat	0	2	Bn Trans	Mod	Bf-Bn	022	None	None	4	1	1	2	1
130	873065	21	355119	6108993	AAsv	02	12	9	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	022	None	None	3	1	1	2	1
130	873066	21	368739	6111826	AMHg	02	25	11	00	Sed/Wat	1	2	Clear	Mod	Bf-Bn	220	Rd-Bn	None	3	1	1	1	1
130	873068	21	370959	6112815	AMHg	02	5	2	00	Sed/Wat	0	5	Clear	Mod	Bf-Bn	122	Rd-Bn	None	4	1	2	1	1
130	873069	21	374794	6110481	AAsv	02	4	1	00	Sed/Wat	0	5	Clear	Slow	Bf-Bn	023	None	None	4	1	2	1	1
130	873070	21	373244	6106993	AAvf	02	30	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	221	None	None	3	1	1	2	1
130	873071	21	372935	6106123	AAvf	02	25	3	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	031	None	None	3	1	1	1	1
130	873072	21	374544	6105213	AMHg	02	15	3	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	212	Rd-Bn	None	3	1	1	2	1
130	873073	21	369293	6100767	AAb	02	40		00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	Rd-Bn	None	3	1	1	2	1
130	873074	21	367984	6100147	AAvf	02	30	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	221	Rd-Bn	None	4	1	1	2	1
130	873075	21	370059	6099259	AAb	02	25	3	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	121	Rd-Bn	None	3	1	1	3	1
130	873076	21	368427	6096691	AAvm	02	100	8	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	None	None	3	1	1	3	1
130	873077	21	365951	6096868	AAvf	02	15	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	121	None	None	3	1	1	2	1
130	873078	21	364529	6099939	AAvf	02	10	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	122	###	###	3	1	1	1	1
130	873079	21	363904	6100995	AAvm	02	10	3	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	122	None	None	3	1	1	2	1
130	873080	21	364815	6103004	AAvf	02	10	2	00	Sed/Wat	1	2	Clear	Slow	Gy-Bl	131	None	None	3	1	2	1	1
130	873082	21	366115	6104267	AAvf	02	35	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	122	None	None	3	1	1	1	1
130	873084	21	362744	6105875	AAvf	02	25	4	10	Sed/Wat	0	2	Clear	Mod	Bf-Bn	122	Rd-Bn	None	3	1	1	1	1
130	873085	21	362744	6105875	AAvf	02	25	4	20	Sed/Wat	0	2	Clear	Mod	Bf-Bn	122	Rd-Bn	None	3	1	1	1	1
130	873086	21	362739	6104475	AAsv	02	10	2	00	Sed/Wat	1	2	Bn Trans	Slow	Bf-Bn	122	None	None	3	1	1	1	1
130	873087	21	363244	6101261	AAsv	02	15	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	221	Rd-Bn	RdBn	3	1	1	1	1
130	873088	21	363237	6097260	AAvm	02	40	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	None	None	3	1	1	2	1
130	873089	21	363233	6099077	AMHg	02	45	2	00	Sed/Wat	2	2	Clear	Mod	Bf-Bn	320	Rd-Bn	None	3	1	1	3	1
130	873090	21	361491	6101342	Agn	02	15	5	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	320	Rd-Bn	None	3	1	1	1	1

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J 130

Analytical Data

		Sediment																						Water			
Element:		Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	W	Ba	Sn	Au	Au	Au	Au	F-W	pH	U-W
Units:		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	ppb		ppb
Detection Limit:		2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	2	40	1	1-var	wght	1-var	wght	20		0.05
Analytical Method:		AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA		rpt	rpt	ISE	GCM	LIF
130	873046	18	3	13	2	<	<	131	1.0	<	2.35	25	8.8	3.4	205	15	<	<	10	705	<	<	10.0	-	-	60	5.3	0.11
130	873047	18	4	9	2	<	<	75	1.0	6	2.21	35	7.6	5.3	310	48	<	<	<	655	1	<	10.0	-	-	60	5.6	0.07
130	873048	33	5	28	2	9	<	763	2.0	5	3.41	45	17.6	5.4	275	33	<	<	4	603	<	<	10.0	-	-	60	5.8	0.25
130	873049	25	5	10	7	7	<	397	2.0	<	1.91	<	3.6	3.5	300	22	<	<	2	675	<	<	10.0	-	-	110	5.8	0.42
130	873050	11	2	6	<	<	<	44	<	<	0.51	<	11.2	1.6	180	7	<	<	<	770	1	<	10.0	-	-	40	4.8	<
130	873051	16	3	8	5	2	<	71	<	<	1.24	15	10.0	3.3	260	11	<	<	<	715	<	<	10.0	-	-	40	5.3	0.08
130	873052	12	2	7	3	<	<	61	<	<	0.82	15	10.0	2.8	235	9	<	<	<	590	<	<	10.0	-	-	60	4.9	0.33
130	873053	11	2	8	<	<	<	36	<	<	0.76	25	5.6	4.1	225	9	<	<	<	635	1	<	10.0	-	-	40	4.7	<
130	873054	17	4	9	4	3	<	72	<	<	1.24	25	5.0	1.9	245	13	<	<	<	815	<	<	10.0	-	-	40	4.9	0.39
130	873055	29	7	11	8	5	<	102	2.0	<	2.14	25	4.6	2.0	295	23	<	<	4	765	1	<	10.0	-	-	40	5.2	0.18
130	873056	14	3	8	5	<	<	64	3.0	<	0.85	15	6.0	4.4	305	10	<	<	<	665	<	<	10.0	-	-	80	5.8	0.54
130	873057	15	2	9	2	<	<	35	<	<	0.57	35	14.4	1.6	145	<	<	<	<	673	<	<	10.0	-	-	40	4.8	<
130	873059	27	4	7	3	2	<	62	<	<	0.93	90	4.0	1.5	200	7	<	<	<	478	<	<	10.0	-	-	30	4.4	<
130	873060	16	3	12	3	<	<	119	<	<	0.96	45	3.4	6.6	150	9	<	<	<	700	<	<	10.0	-	-	60	5.2	0.30
130	873062	22	5	24	<	4	<	223	1.0	<	1.52	50	16.4	6.2	200	17	<	<	<	695	3	<	10.0	-	-	70	5.4	0.63
130	873063	29	5	9	7	6	<	173	1.0	2	1.64	15	3.6	5.6	370	23	<	<	2	750	<	<	10.0	-	-	70	5.8	0.79
130	873064	30	5	9	8	5	<	162	1.0	<	1.63	20	3.4	4.4	345	16	<	<	2	755	1	<	10.0	-	-	70	6.0	0.61
130	873065	17	5	13	3	3	<	74	1.0	<	1.23	20	6.6	5.9	265	19	<	<	2	758	<	<	10.0	-	-	70	6.1	0.39
130	873066	39	4	13	3	3	<	126	1.0	13	1.63	15	6.8	16.0	285	14	<	<	2	394	<	<	10.0	-	-	190	6.1	1.63
130	873068	58	8	15	4	4	<	170	1.0	30	1.69	25	8.2	90.0	310	15	<	<	4	424	<	<	10.0	-	-	320	6.7	5.00
130	873069	94	42	35	5	10	0.6	1066	8.0	2	1.80	125	49.4	128.0	265	25	0.3	<	4	284	1	<	10.0	-	-	60	6.6	1.75
130	873070	105	10	17	20	7	<	216	7.0	2	1.41	25	4.8	8.4	445	21	<	<	2	457	1	<	10.0	-	-	170	6.5	1.09
130	873071	146	17	17	62	15	<	403	13.0	<	2.19	35	5.6	9.2	990	37	<	0.2	<	170	<	<	10.0	-	-	90	6.4	0.53
130	873072	104	7	21	6	4	0.2	185	3.0	3	1.53	45	12.2	10.6	430	14	<	<	4	424	<	<	10.0	-	-	170	6.3	0.98
130	873073	40	7	20	7	5	<	191	2.0	<	1.74	20	6.4	8.5	270	26	<	<	2	565	<	<	10.0	-	-	130	6.3	0.60
130	873074	116	15	32	3	5	<	239	2.0	<	1.44	45	12.2	25.1	280	16	0.3	<	<	477	<	<	10.0	-	-	100	6.4	0.52
130	873075	53	7	13	18	5	<	184	2.0	<	1.38	25	3.4	7.0	295	14	0.2	<	<	449	<	<	10.0	-	-	120	6.2	0.48
130	873076	65	8	13	7	4	<	178	2.0	<	1.53	20	2.4	6.6	290	14	<	<	<	456	1	<	10.0	-	-	110	6.3	0.52
130	873077	155	12	35	4	5	<	281	2.0	2	1.44	45	6.4	18.7	280	10	0.5	<	<	458	<	<	10.0	-	-	140	6.4	0.85
130	873078	104	11	33	5	6	<	632	2.0	<	1.58	70	9.8	11.2	250	12	0.3	<	2	428	<	<	10.0	-	-	150	6.5	0.24
130	873079	223	16	53	16	11	0.2	604	3.0	6	2.34	40	6.6	9.1	550	28	0.3	<	4	383	2	<	10.0	-	-	170	6.6	0.31
130	873080	89	60	18	9	4	<	304	2.0	5	1.15	60	18.2	12.9	510	13	0.6	<	2	408	2	<	10.0	-	-	140	6.2	<
130	873082	382	16	34	34	12	<	604	3.0	<	2.33	45	7.8	16.5	420	25	0.7	<	2	823	3	<	10.0	-	-	180	6.4	0.33
130	873084	99	6	10	8	7	<	723	2.0	2	2.19	<	5.4	6.2	340	16	<	<	4	550	1	<	10.0	-	-	140	7.3	0.13
130	873085	91	5	9	5	7	<	698	2.0	3	2.10	10	3.4	5.8	300	18	<	<	24	525	5	<	10.0	-	-	140	6.8	0.09
130	873086	43	7	15	3	4	<	250	2.0	2	2.43	40	12.0	4.7	315	27	0.2	<	2	473	<	<	10.0	-	-	270	5.4	0.35
130	873087	130	32	16	2	9	<	338	1.0	51	3.82	25	13.0	9.8	315	31	<	<	4	437	1	<	10.0	-	-	160	6.2	0.35
130	873088	110	9	21	5	6	<	210	3.0	5	1.65	25	4.0	17.9	400	16	0.2	<	<	405	3	<	10.0	-	-	90	6.4	0.95
130	873089	109	9	16	3	7	<	409	3.0	14	2.36	15	3.6	17.9	390	18	0.4	<	<	457	1	<	10.0	-	-	100	6.4	0.94
130	873090	184	8	13	7	13	<	1354	2.0	13	3.23	20	6.8	10.1	340	20	0.3	<	<	545	<	<	10.0	-	-	260	6.4	0.56

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J 130
Field Data

Map	Sample ID	ZN	UTM Easting	UTM Northing	Rock Type	Rock Age	Stream Wid	Stream Dep	RS	Sample Type	Cont	Bank Type	Water Col	Flow Rate	Sed Col	Sed Comp	Pcpt Col	Bank Stain	Strm Phys	Drain Ptrn	Stream Type	Stream Class	Water Source
130	873091	21	361946	6104523	AAvf	02	15	5	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	310	Rd-Bn	None	3	1	1	1	1
130	873092	21	359206	6105748	AAvf	02	9	4	00	Sed/Wat	1	2	Bn Trans	Mod	Bf-Bn	212	None	None	3	1	1	2	1
130	873093	21	356531	6104234	AAsv	02	9	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	120	None	None	3	1	1	1	1
130	873094	21	357272	6103203	AAsv	02	3	1	00	Sed/Wat	0	2	Bn Cloud	Stag		030	None	None	3	1	1	1	1
130	873095	21	355268	6099896	AMHg	02	36	9	00	Sed/Wat	0	2	Clear	Mod	Gy-Bl	030	Rd-Bn	None	3	1	1	2	1
130	873096	21	351427	6098741	AMHg	02	12	6	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	030	None	None	3	1	1	1	1
130	873097	21	349702	6097878	AMHg	02	20	4	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	112	Rd-Bn	None	3	1	1	2	1
130	873098	21	351759	6097128	AMHg	02	40	3	00	Sed/Wat	0	2	Clear	Mod	Gy-Bl	230	Rd-Bn	None	3	1	1	2	1
130	873099	21	358639	6102271	AAvf	02	25	5	00	Sed/Wat	0	2	Clear	Fast	Bf-Bn	220	Rd-Bn	None	3	1	1	3	1
130	873100	21	358585	6099359	AAvf	02	50	10	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	220	None	None	3	1	1	2	1
130	873102	21	356267	6099022	AAsv	02	20	3	10	Sed/Wat	0	2	Clear	Mod	Bf-Bn	320	Rd-Bn	None	3	1	1	2	1
130	873103	21	356267	6099022	AAsv	02	20	3	20	Sed/Wat	0	2	Clear	Mod	Bf-Bn	320	Rd-Bn	None	3	1	1	2	1
130	873104	21	357452	6101995	AAsv	02	10	2	00	Sed/Wat	0	2	Clear	Mod	Bf-Bn	121	Rd-Bn	None	3	1	1	1	1

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Newfoundland, 1988, GSC OF-1637, NGR 102-1988, NDM LAB 768, NTS 13J 130

Analytical Data

		Sediment																					Water			
Element:		Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	W	Ba	Sn	Au	Au	Au	Au	F-W	pH	U-W
Units:		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	ppb		ppb
Detection Limit:		2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	2	40	1	1-var	wght	1-var	wght	20		0.05
Analytical Method:		AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA		rpt	rpt	ISE	GCM	LIF
130	873091	51	3	10	4	7	<	633	2.0	4	2.18	20	3.6	6.1	275	16	<	<	2	473	<	<	10.0	-	-	140	6.2	0.40
130	873092	69	7	20	4	8	<	519	2.0	4	1.98	30	13.8	4.6	385	28	<	<	<	585	1	<	10.0	-	-	50	5.9	<
130	873093	30	5	10	6	7	<	214	1.0	<	1.69	<	4.6	3.2	345	18	<	<	<	695	<	<	10.0	-	-	100	6.0	<
130	873094	34	5	10	10	6	<	140	1.0	<	1.39	20	3.6	2.9	380	22	<	<	<	805	<	<	10.0	-	-	50	5.7	<
130	873095	49	8	17	10	7	<	142	2.0	<	1.73	<	4.6	8.3	430	25	<	<	<	725	<	<	10.0	-	-	60	5.6	1.02
130	873096	15	4	7	5	5	<	82	1.0	<	0.90	<	<	3.0	295	11	<	<	<	790	1	<	10.0	-	-	110	5.3	2.77
130	873097	17	5	12	<	2	<	100	<	2	0.91	25	10.4	7.9	200	13	<	<	<	490	<	<	10.0	-	-	70	5.5	1.60
130	873098	45	10	11	14	8	<	208	3.0	<	2.10	10	2.0	5.3	330	27	<	<	<	650	2	<	10.0	-	-	60	5.4	1.76
130	873099	75	7	12	6	8	<	459	2.0	7	2.28	25	4.5	8.2	360	20	<	<	2	705	<	<	10.0	-	-	140	5.9	0.90
130	873100	35	5	12	7	2	<	80	1.0	3	0.93	15	3.4	10.0	265	9	<	<	<	625	<	<	10.0	-	-	150	5.6	1.63
130	873102	22	2	9	3	2	<	113	1.0	<	0.88	<	2.8	8.7	260	10	<	<	2	540	<	<	10.0	-	-	80	5.6	0.42
130	873103	22	2	9	3	3	<	124	1.0	2	0.93	10	2.6	8.6	300	9	<	<	<	427	<	<	10.0	-	-	80	5.6	1.10
130	873104	36	9	17	3	2	<	85	1.0	3	1.52	50	19.8	15.2	200	14	<	<	2	535	<	<	10.0	-	-	70	5.8	0.63

Summary Statistics for Total Data Set

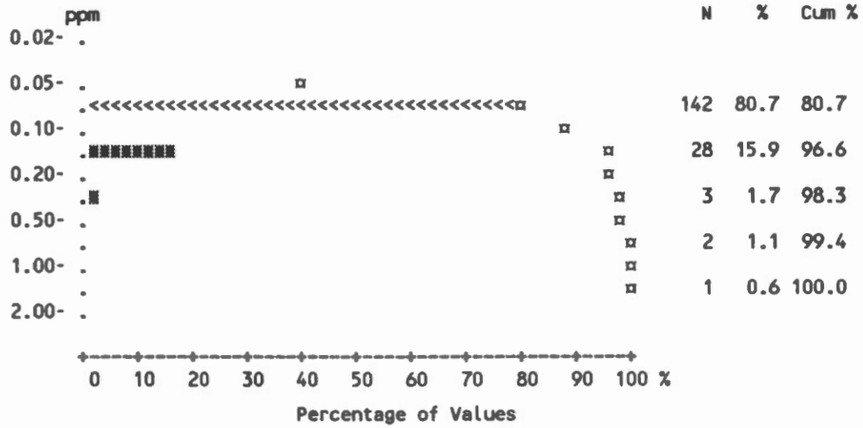
Variable	Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct
Detection Limit	2	2	2	2	2	0.2	5	1	2	0.02	10	1.0
Analytical Method	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV
Number of Values	176	176	176	176	176	176	176	176	176	176	176	176
Values > D.L.	176	176	176	176	159	39	176	97	138	176	176	176
Number of Missing Values	0	0	0	0	0	0	0	0	0	0	0	0
Mean	251.77	32.45	19.19	10.80	8.24	0.1926	454.90	1.97	14.09	2.63	80.51	32.35
Standard Deviation	309.09	24.76	33.03	7.93	9.36	0.2023	1105.94	7.20	20.72	2.33	50.50	19.54
Skewness	3.77	2.28	7.97	3.10	2.96	2.52	4.79	11.29	2.93	1.49	1.96	1.01
Excess Kurtosis	20.64	8.80	70.91	12.85	10.77	6.95	25.33	136.30	10.46	1.87	7.31	0.9408
Coef. of Var. %	122.77	76.30	172.09	73.46	113.48	105.02	243.12	364.73	147.13	88.58	62.72	60.41
Std Error of the Mean	23.30	1.87	2.49	0.5980	0.7052	0.0152	83.36	0.5428	1.56	0.1759	3.81	1.47
Lower 95% limit on Mean	205.78	28.77	14.28	9.62	6.85	0.1625	290.34	0.9029	11.00	2.29	73.00	29.44
Upper 95% limit on Mean	297.76	36.14	24.11	11.98	9.64	0.2227	619.46	3.05	17.17	2.98	88.03	35.26
Geometric Statistics												
Mean	157.84	25.43	13.23	9.05	5.31	0.1416	167.28	0.9913	6.00	1.80	67.01	26.35
Log10 Mean	2.20	1.41	1.12	0.9566	0.7251	-0.8489	2.22	-0.0038	0.7780	0.2561	1.83	1.42
Log10 S.D.	0.4106	0.3079	0.3289	0.2479	0.4057	0.2942	0.5230	0.3667	0.5858	0.3942	0.2752	0.3025
Log10 Std. Error of Mean	0.0309	0.0232	0.0248	0.0187	0.0306	0.0222	0.0394	0.0276	0.0442	0.0297	0.0207	0.0228
Lower 95% limit on Mean	137.13	22.88	11.82	8.31	4.62	0.1280	139.84	0.8742	4.91	1.58	60.98	23.76
Upper 95% limit on Mean	181.68	28.26	14.80	9.85	6.10	0.1566	200.10	1.12	7.33	2.06	73.64	29.23
Percentiles												
Min Value	14.00	5.00	2.00	2.00	1.00	0.1000	10.00	0.5000	1.00	0.2000	10.00	3.00
25th %tile	82.00	17.00	9.00	6.00	3.00	0.1000	80.00	0.5000	2.00	0.9000	45.00	18.00
50th %tile	145.00	24.00	13.00	9.00	5.00	0.1000	130.00	1.00	5.00	1.80	75.00	31.00
75th %tile	317.00	43.00	21.00	13.00	9.00	0.2000	330.00	2.00	18.00	3.50	100.00	42.00
80th %tile	388.00	48.00	24.00	14.00	11.00	0.3000	380.00	2.00	22.00	4.30	115.00	43.00
90th %tile	521.00	61.00	32.00	18.00	18.00	0.5000	730.00	3.00	35.00	6.20	140.00	59.00
95th %tile	851.00	75.00	38.00	21.00	26.00	0.6000	2120.00	4.00	68.00	8.10	175.00	74.00
98th %tile	1083.00	98.00	64.00	43.00	40.00	0.9000	4800.00	10.00	74.00	8.80	225.00	90.00
99th %tile	1640.00	131.00	257.00	50.00	53.00	1.00	6450.00	24.00	119.00	11.00	245.00	90.00
Max Value	2600.00	187.00	352.00	58.00	63.00	1.30	8520.00	92.00	133.00	11.40	385.00	91.00

Summary Statistics for Total Data Set

Variable	U	F	V	Cd	Sb	W	Ba	Sn	Au	F-W	pH	U-W
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb		ppb
Detection Limit	0.5	20	5	0.2	0.2	2	40	1	1-var	20		0.05
Analytical Method	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA	ISE	GCM	LIF
Number of Values	176	176	176	176	176	176	176	176	176	176	176	176
Values > D.L.	176	176	171	89	6	114	176	168	7	173	176	117
Number of Missing Values	0	0	0	0	0	0	0	0	0	0	0	0
Mean	40.34	303.61	38.05	0.7483	0.1216	1.93	377.65	2.48	0.6108	78.52	5.71	0.2775
Standard Deviation	56.13	130.38	22.78	1.39	0.1592	1.56	196.50	1.28	0.7913	45.90	0.4199	0.4714
Skewness	4.42	0.3866	0.9248	4.15	9.96	5.67	0.5252	0.9809	10.06	0.6394	-0.8956	5.30
Excess Kurtosis	31.15	0.0966	1.07	20.89	109.40	39.36	-0.3922	1.56	111.73	-0.1451	1.00	40.53
Coef. of Var. %	139.15	42.94	59.87	185.56	130.97	80.69	52.03	51.60	129.56	58.45	7.36	169.86
Std Error of the Mean	4.23	9.83	1.72	0.1047	0.0120	0.1175	14.81	0.0963	0.0596	3.46	0.0316	0.0355
Lower 95% limit on Mean	31.98	284.21	34.66	0.5417	0.0979	1.70	348.41	2.29	0.4930	71.69	5.65	0.2074
Upper 95% limit on Mean	48.69	323.01	41.44	0.9549	0.1453	2.16	406.89	2.67	0.7285	85.35	5.77	0.3477
Geometric Statistics												
Mean	19.65	272.16	30.47	0.3013	0.1061	1.68	321.73	2.15	0.5332	64.35	5.69	0.1195
Log10 Mean	1.29	2.43	1.48	-0.5210	-0.9742	0.2251	2.51	0.3316	-0.2731	1.81	0.7552	-0.9227
Log10 S.D.	0.5541	0.2181	0.3287	0.5460	0.1476	0.2043	0.2658	0.2471	0.1495	0.2939	0.0333	0.5733
Log10 Std. Error of Mean	0.0418	0.0164	0.0248	0.0412	0.0111	0.0154	0.0200	0.0186	0.0113	0.0222	0.0025	0.0432
Lower 95% limit on Mean	16.25	252.57	27.22	0.2499	0.1009	1.57	293.73	1.97	0.5066	58.18	5.63	0.0982
Upper 95% limit on Mean	23.76	293.27	34.10	0.3632	0.1116	1.80	352.41	2.34	0.5612	71.16	5.76	0.1454
Percentiles												
Min Value	0.8000	60.00	2.50	0.1000	0.1000	1.00	51.00	0.5000	0.5000	10.00	4.30	0.0250
25th %tile	6.80	205.00	20.00	0.1000	0.1000	1.00	214.00	2.00	0.5000	40.00	5.50	0.0250
50th %tile	22.40	305.00	36.00	0.3000	0.1000	2.00	345.00	2.00	0.5000	70.00	5.80	0.1400
75th %tile	55.70	365.00	50.00	0.8000	0.1000	2.00	498.00	3.00	0.5000	110.00	6.00	0.3400
80th %tile	62.60	400.00	54.00	1.00	0.1000	2.00	550.00	3.00	0.5000	120.00	6.10	0.3800
90th %tile	89.60	480.00	72.00	1.90	0.2000	2.00	675.00	4.00	0.5000	150.00	6.20	0.6900
95th %tile	137.00	545.00	83.00	2.80	0.2000	4.00	740.00	5.00	0.5000	160.00	6.20	1.00
98th %tile	200.00	590.00	94.00	6.20	0.4000	4.00	835.00	6.00	2.00	180.00	6.40	1.75
99th %tile	216.00	660.00	110.00	9.10	0.8000	14.00	865.00	6.00	4.00	200.00	6.50	1.90
Max Value	527.00	735.00	128.00	10.20	2.00	14.00	935.00	8.00	10.00	240.00	6.60	4.62

Statistics per Variable

Variable - Antimony [Sb]
Number of Values - 176
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

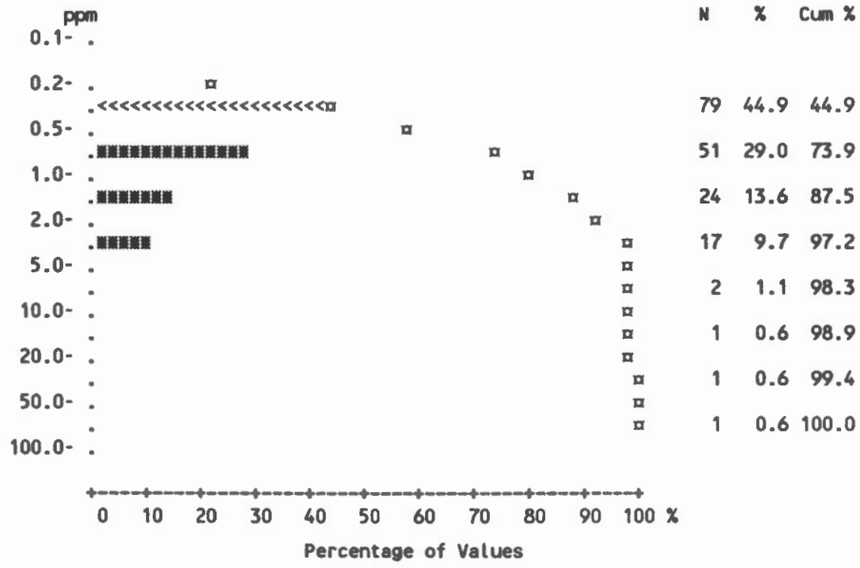


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	6	0	3	2	0	0	0	1
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	0.12	-	0.13	0.11	-	-	-	0.26
Standard Deviation	0.16	-	0.13	0.067	-	-	-	0.55
Skewness	9.96	-	4.08	6.44	-	-	-	2.65
Excess Kurtosis	109.40	-	16.93	42.50	-	-	-	5.48
Coef. of Var. %	130.97	-	97.17	60.34	-	-	-	212.32
Std. Error of the Mean	0.01	-	0.022	0	-	-	-	0.16
Lower 95% limit on Mean	0.10	-	0.089	0.094	-	-	-	-0.090
Upper 95% limit on Mean	0.15	-	0.18	0.13	-	-	-	0.61
Geometric Statistics								
Mean	0.11	-	0.11	0.10	-	-	-	0.13
Log10 Mean	-0.97	-	-0.94	-0.98	-	-	-	-0.89
Log10 S.D.	0.15	-	0.20	0.11	-	-	-	0.38
Log10 Std. Error of Mean	0.01	-	0.033	0.014	-	-	-	0.11
Lower 95% limit on Mean	0.10	-	0.098	0.098	-	-	-	0.074
Upper 95% limit on Mean	0.11	-	0.13	0.11	-	-	-	0.22
Percentiles								
Min Value	0.10	-	0.10	0.10	-	-	-	0.10
25th %tile	0.10	-	0.10	0.10	-	-	-	0.10
50th %tile	0.10	-	0.10	0.10	-	-	-	0.10
75th %tile	0.10	-	0.20	0.10	-	-	-	0.10
80th %tile	0.10	-	0.20	0.20	-	-	-	0.20
90th %tile	0.20	-	0.20	0.20	-	-	-	0.20
95th %tile	0.20	-	0.40	0.20	-	-	-	2.00
98th %tile	0.40	-	0.80	0.30	-	-	-	2.00
99th %tile	0.80	-	0.80	0.60	-	-	-	2.00
Max Value	2.00	-	0.80	0.60	-	-	-	2.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Arsenic [As]
Number of Values - 176
Units - ppm
Detection Limit - 1
Analytical Method - AAS

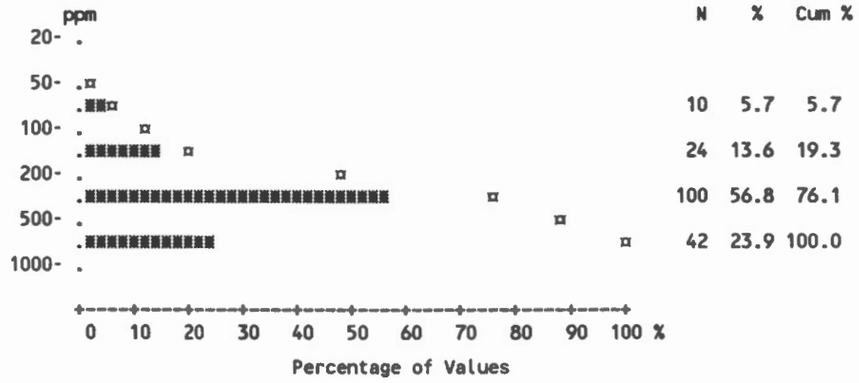


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	97	6	29	32	4	9	3	10
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	1.97	1.15	4.34	1.83	0.77	0.81	0.80	1.33
Standard Deviation	7.20	1.40	15.30	3.53	0.47	0.59	0.27	0.75
Skewness	11.29	2.27	5.36	4.57	1.55	2.43	-0.29	0.82
Excess Kurtosis	136.30	4.62	27.76	23.49	1.42	5.83	-2.25	-0.52
Coef. of Var. %	364.73	121.43	352.38	192.86	60.45	72.16	34.23	56.16
Std. Error of the Mean	0.54	0.31	2.59	0.44	0.14	0.12	0.12	0.22
Lower 95% limit on Mean	0.90	0.50	-0.92	0.95	0.46	0.56	0.46	0.86
Upper 95% limit on Mean	3.05	1.80	9.60	2.71	1.09	1.06	1.14	1.81
Geometric Statistics								
Mean	0.99	0.78	1.58	0.98	0.69	0.70	0.76	1.16
Log10 Mean	-0.00	-0.11	0.20	-0	-0.16	-0.16	-0.12	0.065
Log10 S.D.	0.37	0.34	0.43	0.40	0.21	0.22	0.16	0.24
Log10 Std. Error of Mean	0.03	0.076	0.072	0.050	0.062	0.045	0.074	0.069
Lower 95% limit on Mean	0.87	0.54	1.13	0.78	0.50	0.57	0.47	0.82
Upper 95% limit on Mean	1.12	1.12	2.22	1.23	0.94	0.86	1.21	1.65
Percentiles								
Min Value	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
25th %tile	0.50	0.50	1.00	0.50	0.50	0.50	0.50	1.00
50th %tile	1.00	0.50	2.00	0.50	0.50	0.50	1.00	1.00
75th %tile	2.00	1.00	2.00	1.00	1.00	1.00	1.00	2.00
80th %tile	2.00	1.00	2.00	2.00	1.00	1.00	1.00	2.00
90th %tile	3.00	3.00	4.00	4.00	1.00	1.00	1.00	2.00
95th %tile	4.00	3.00	5.00	5.00	2.00	2.00	1.00	3.00
98th %tile	10.00	6.00	92.00	13.00	2.00	3.00	1.00	3.00
99th %tile	24.00	6.00	92.00	24.00	2.00	3.00	1.00	3.00
Max Value	92.00	6.00	92.00	24.00	2.00	3.00	1.00	3.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Barium [Ba]
Number of Values - 176
Units - ppm
Detection Limit - 40
Analytical Method - DCP

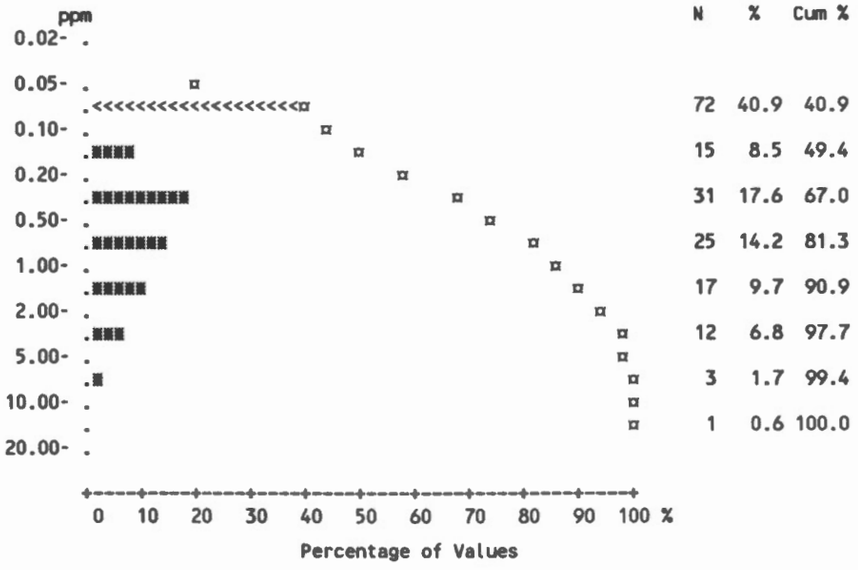


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	176	20	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	377.65	363.15	420.03	344.36	394.36	344.50	574.20	420.17
Standard Deviation	196.50	145.43	208.96	165.84	230.89	227.04	275.22	183.55
Skewness	0.53	0.36	-0.10	0.77	0.70	0.70	-0.63	0.42
Excess Kurtosis	-0.39	-1.42	-1.35	1.05	-1.34	-0.45	-1.47	0.56
Coef. of Var. %	52.03	40.05	49.75	48.16	58.55	65.90	47.93	43.68
Std. Error of the Mean	14.81	32.52	35.32	20.73	69.62	46.34	123.08	52.99
Lower 95% limit on Mean	348.41	295.09	348.20	302.93	239.26	248.62	232.52	303.54
Upper 95% limit on Mean	406.89	431.21	491.86	385.78	549.47	440.38	915.88	536.79
Geometric Statistics								
Mean	321.73	335.99	353.93	301.81	340.50	270.71	485.55	371.29
Log10 Mean	2.51	2.53	2.55	2.48	2.53	2.43	2.69	2.57
Log10 S.D.	0.27	0.18	0.29	0.24	0.24	0.33	0.33	0.26
Log10 Std. Error of Mean	0.02	0.040	0.049	0.030	0.074	0.067	0.15	0.075
Lower 95% limit on Mean	293.73	277.70	281.95	262.38	233.18	196.80	190.02	253.46
Upper 95% limit on Mean	352.41	406.51	444.28	347.16	497.21	372.39	1240.68	543.88
Percentiles								
Min Value	51.00	191.00	59.00	51.00	136.00	63.00	131.00	70.00
25th %tile	214.00	214.00	209.00	215.00	243.00	160.00	500.00	340.00
50th %tile	345.00	307.00	433.00	323.00	304.00	295.00	695.00	395.00
75th %tile	498.00	461.00	610.00	455.00	710.00	498.00	710.00	486.00
80th %tile	550.00	515.00	630.00	483.00	710.00	545.00	710.00	494.00
90th %tile	675.00	560.00	695.00	555.00	750.00	605.00	835.00	525.00
95th %tile	740.00	580.00	720.00	605.00	765.00	825.00	835.00	845.00
98th %tile	835.00	625.00	740.00	685.00	765.00	865.00	835.00	845.00
99th %tile	865.00	625.00	740.00	935.00	765.00	865.00	835.00	845.00
Max Value	935.00	625.00	740.00	935.00	765.00	865.00	835.00	845.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Cadmium [Cd]
Number of Values - 176
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

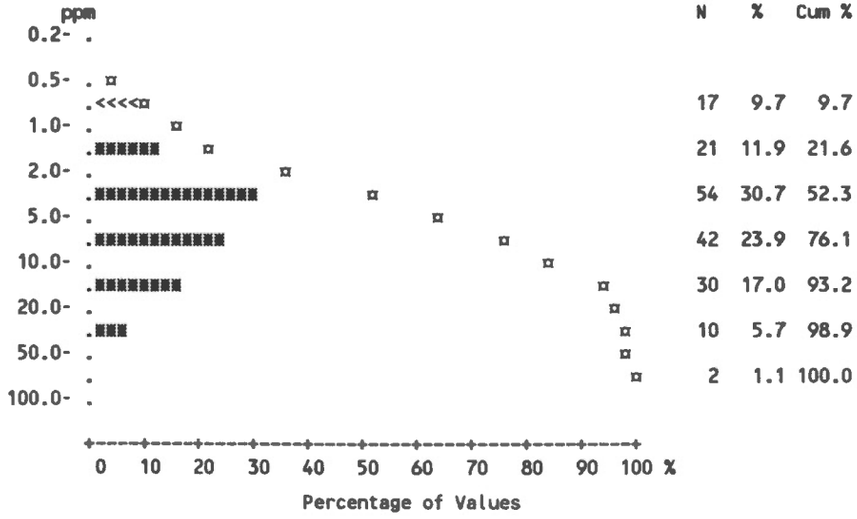


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	89	6	15	47	7	5	0	6
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	0.75	0.29	0.63	1.32	0.46	0.25	-	0.52
Standard Deviation	1.39	0.41	1.73	1.71	0.41	0.37	-	0.77
Skewness	4.15	2.58	4.83	2.46	0.70	2.44	-	1.84
Excess Kurtosis	20.89	6.57	23.68	6.91	-1.23	5.17	-	2.39
Coef. of Var. %	185.56	140.58	275.54	129.62	89.07	147.20	-	146.67
Std. Error of the Mean	0.10	0.091	0.29	0.21	0.12	0.076	-	0.22
Lower 95% limit on Mean	0.54	0.099	0.033	0.89	0.19	0.096	-	0.036
Upper 95% limit on Mean	0.95	0.48	1.22	1.75	0.74	0.41	-	1.01
Geometric Statistics								
Mean	0.30	0.17	0.22	0.63	0.31	0.15	-	0.26
Log10 Mean	-0.52	-0.76	-0.65	-0.20	-0.51	-0.82	-	-0.59
Log10 S.D.	0.55	0.39	0.50	0.57	0.43	0.37	-	0.51
Log10 Std. Error of Mean	0.04	0.088	0.084	0.072	0.13	0.076	-	0.15
Lower 95% limit on Mean	0.25	0.11	0.15	0.45	0.16	0.11	-	0.12
Upper 95% limit on Mean	0.36	0.26	0.33	0.87	0.60	0.22	-	0.54
Percentiles								
Min Value	0.10	0.10	0.10	0.10	0.10	0.10	-	0.10
25th %tile	0.10	0.10	0.10	0.20	0.10	0.10	-	0.10
50th %tile	0.30	0.10	0.20	0.70	0.40	0.10	-	0.10
75th %tile	0.80	0.40	0.40	1.60	0.90	0.20	-	0.30
80th %tile	1.00	0.40	0.40	2.30	0.90	0.40	-	1.00
90th %tile	1.90	0.50	1.00	3.20	1.10	0.70	-	1.10
95th %tile	2.80	0.80	2.10	4.00	1.20	1.10	-	2.70
98th %tile	6.20	1.80	10.20	7.00	1.20	1.60	-	2.70
99th %tile	9.10	1.80	10.20	9.10	1.20	1.60	-	2.70
Max Value	10.20	1.80	10.20	9.10	1.20	1.60	-	2.70

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Cobalt [Co]
Number of Values - 176
Units - ppm
Detection Limit - 2
Analytical Method - AAS

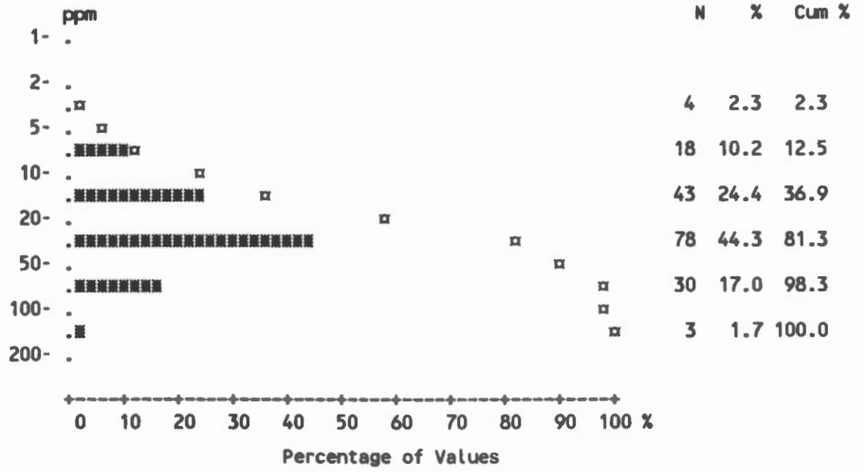


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	159	20	32	58	9	20	4	11
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	8.24	21.15	8.00	6.45	6.27	4.63	6.60	8.00
Standard Deviation	9.36	17.77	6.66	5.51	6.03	4.11	3.85	9.97
Skewness	2.96	0.90	2.43	1.78	0.92	1.56	-0.28	1.84
Excess Kurtosis	10.77	-0.41	7.01	4.03	-0.72	1.56	-1.72	2.31
Coef. of Var. %	113.48	84.01	83.30	85.32	96.21	88.76	58.29	124.66
Std. Error of the Mean	0.71	3.97	1.13	0.69	1.82	0.84	1.72	2.88
Lower 95% limit on Mean	6.85	12.83	5.71	5.08	2.22	2.89	1.82	1.66
Upper 95% limit on Mean	9.64	29.47	10.29	7.83	10.33	6.36	11.38	14.34
Geometric Statistics								
Mean	5.31	14.22	6.10	4.64	4.03	3.36	5.10	4.93
Log10 Mean	0.73	1.15	0.79	0.67	0.61	0.53	0.71	0.69
Log10 S.D.	0.41	0.43	0.34	0.37	0.44	0.35	0.42	0.42
Log10 Std. Error of Mean	0.03	0.097	0.058	0.046	0.13	0.072	0.19	0.12
Lower 95% limit on Mean	4.62	8.93	4.65	3.75	2.04	2.39	1.55	2.67
Upper 95% limit on Mean	6.10	22.66	7.98	5.72	7.98	4.74	16.76	9.10
Percentiles								
Min Value	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
25th %tile	3.00	7.00	5.00	2.00	2.00	2.00	5.00	3.00
50th %tile	5.00	15.00	7.00	5.00	4.00	3.00	7.00	4.00
75th %tile	9.00	26.00	9.00	8.00	12.00	5.00	9.00	5.00
80th %tile	11.00	39.00	9.00	10.00	12.00	6.00	9.00	11.00
90th %tile	18.00	45.00	13.00	13.00	14.00	11.00	11.00	18.00
95th %tile	26.00	53.00	23.00	16.00	19.00	15.00	11.00	36.00
98th %tile	40.00	63.00	36.00	21.00	19.00	16.00	11.00	36.00
99th %tile	53.00	63.00	36.00	30.00	19.00	16.00	11.00	36.00
Max Value	63.00	63.00	36.00	30.00	19.00	16.00	11.00	36.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Copper [Cu]
Number of Values - 176
Units - ppm
Detection Limit - 2
Analytical Method - AAS

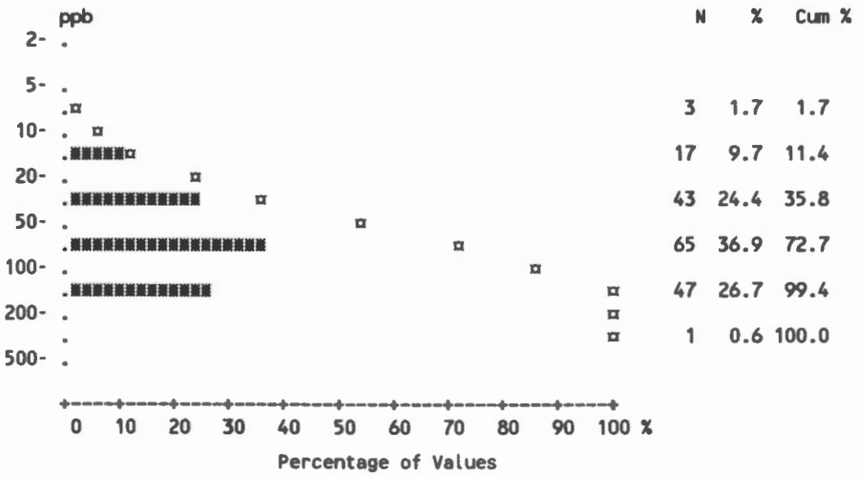


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	176	20	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	32.45	54.15	35.00	32.47	24.64	19.63	12.00	22.50
Standard Deviation	24.76	28.48	33.31	17.06	12.42	13.31	2.92	16.77
Skewness	2.28	1.08	2.76	0.70	0.57	1.53	-0.29	0.94
Excess Kurtosis	8.80	0.46	9.67	-0.40	-0.54	1.78	-1.98	-0.68
Coef. of Var. %	76.30	52.59	95.18	52.54	50.41	67.80	24.30	74.55
Std. Error of the Mean	1.87	6.37	5.63	2.13	3.74	2.72	1.30	4.84
Lower 95% limit on Mean	28.77	40.82	23.55	28.21	16.29	14.01	8.38	11.84
Upper 95% limit on Mean	36.14	67.48	46.45	36.73	32.98	25.24	15.62	33.16
Geometric Statistics								
Mean	25.43	48.07	25.87	27.96	21.48	16.46	11.69	17.82
Log10 Mean	1.41	1.68	1.41	1.45	1.33	1.22	1.07	1.25
Log10 S.D.	0.31	0.22	0.33	0.25	0.26	0.25	0.11	0.31
Log10 Std. Error of Mean	0.02	0.048	0.056	0.032	0.079	0.052	0.051	0.088
Lower 95% limit on Mean	22.88	38.12	19.88	24.16	14.35	12.88	8.45	11.39
Upper 95% limit on Mean	28.26	60.63	33.67	32.36	32.15	21.05	16.18	27.90
Percentiles								
Min Value	5.00	22.00	6.00	5.00	5.00	7.00	8.00	6.00
25th %tile	17.00	34.00	14.00	21.00	18.00	10.00	10.00	10.00
50th %tile	24.00	48.00	24.00	26.00	20.00	15.00	13.00	17.00
75th %tile	43.00	60.00	49.00	41.00	31.00	22.00	14.00	20.00
80th %tile	48.00	63.00	55.00	51.00	31.00	28.00	14.00	42.00
90th %tile	61.00	94.00	64.00	58.00	41.00	41.00	15.00	46.00
95th %tile	75.00	98.00	82.00	66.00	50.00	43.00	15.00	58.00
98th %tile	98.00	131.00	187.00	70.00	50.00	61.00	15.00	58.00
99th %tile	131.00	131.00	187.00	75.00	50.00	61.00	15.00	58.00
Max Value	187.00	131.00	187.00	75.00	50.00	61.00	15.00	58.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Fluoride [F-W]
Number of Values - 176
Units - ppb
Detection Limit - 20
Analytical Method - ISE

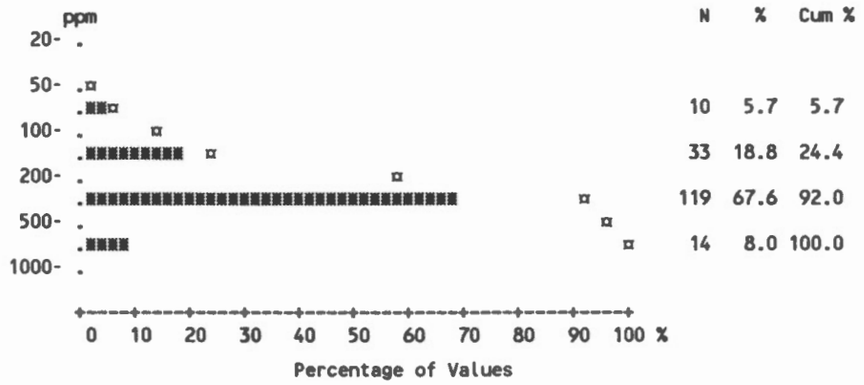


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	173	18	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	78.52	38.00	71.71	93.13	122.73	63.33	78.00	91.67
Standard Deviation	45.90	31.05	40.26	43.20	47.56	41.35	39.62	41.96
Skewness	0.64	1.62	0.75	0.50	1.20	0.93	-0.29	-0.29
Excess Kurtosis	-0.15	1.83	-0.60	-0.59	0.75	-0.41	-2.21	-1.33
Coef. of Var. %	58.45	81.72	56.13	46.39	38.75	65.30	50.80	45.77
Std. Error of the Mean	3.46	6.94	6.80	5.40	14.34	8.44	17.72	12.11
Lower 95% limit on Mean	71.69	23.47	57.88	82.33	90.78	45.87	28.81	65.01
Upper 95% limit on Mean	85.35	52.53	85.55	103.92	154.68	80.80	127.19	118.33
Geometric Statistics								
Mean	64.35	29.78	61.36	82.84	115.71	52.22	67.98	79.48
Log10 Mean	1.81	1.47	1.79	1.92	2.06	1.72	1.83	1.90
Log10 S.D.	0.29	0.30	0.25	0.22	0.15	0.27	0.27	0.27
Log10 Std. Error of Mean	0.02	0.067	0.042	0.028	0.046	0.056	0.12	0.078
Lower 95% limit on Mean	58.18	21.60	50.30	72.93	91.34	39.97	31.29	53.40
Upper 95% limit on Mean	71.16	41.07	74.86	94.11	146.58	68.22	147.70	118.31
Percentiles								
Min Value	10.00	10.00	20.00	20.00	60.00	20.00	30.00	20.00
25th %tile	40.00	20.00	40.00	60.00	100.00	30.00	40.00	60.00
50th %tile	70.00	20.00	60.00	90.00	110.00	50.00	100.00	100.00
75th %tile	110.00	40.00	90.00	120.00	140.00	90.00	110.00	120.00
80th %tile	120.00	50.00	100.00	130.00	140.00	100.00	110.00	130.00
90th %tile	150.00	70.00	140.00	150.00	170.00	140.00	110.00	140.00
95th %tile	160.00	100.00	150.00	170.00	240.00	140.00	110.00	150.00
98th %tile	180.00	130.00	160.00	190.00	240.00	160.00	110.00	150.00
99th %tile	200.00	130.00	160.00	200.00	240.00	160.00	110.00	150.00
Max Value	240.00	130.00	160.00	200.00	240.00	160.00	110.00	150.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Fluorine [F]
Number of Values - 176
Units - ppm
Detection Limit - 20
Analytical Method - ISE

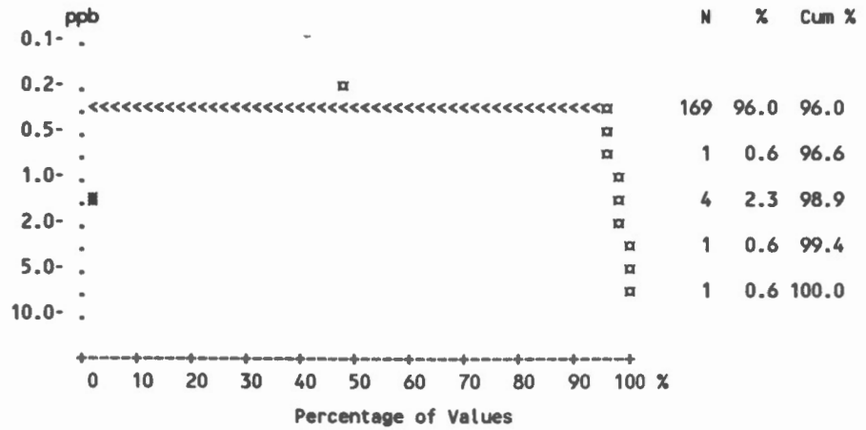


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	176	20	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	303.61	271.00	323.86	301.95	396.82	261.88	345.00	319.58
Standard Deviation	130.38	96.66	134.68	129.53	150.39	138.70	145.73	107.21
Skewness	0.39	0.21	0.42	0.078	0.50	0.79	-0.34	-0.23
Excess Kurtosis	0.10	-1.42	0.77	-0.57	-1.51	0.23	-1.57	0.41
Coef. of Var. %	42.94	35.67	41.59	42.90	37.90	52.96	42.24	33.55
Std. Error of the Mean	9.83	21.61	22.77	16.19	45.34	28.31	65.17	30.95
Lower 95% limit on Mean	284.21	225.76	277.56	269.60	295.79	203.30	164.08	251.47
Upper 95% limit on Mean	323.01	316.24	370.15	334.31	497.84	320.45	525.92	387.70
Geometric Statistics								
Mean	272.16	254.26	292.43	268.64	372.84	226.89	312.25	296.45
Log10 Mean	2.43	2.41	2.47	2.43	2.57	2.36	2.49	2.47
Log10 S.D.	0.22	0.16	0.21	0.23	0.16	0.25	0.24	0.20
Log10 Std. Error of Mean	0.02	0.036	0.036	0.029	0.048	0.051	0.11	0.058
Lower 95% limit on Mean	252.57	213.58	246.69	235.32	291.64	178.35	158.35	221.31
Upper 95% limit on Mean	293.27	302.68	346.63	306.69	476.64	288.62	615.74	397.11
Percentiles								
Min Value	60.00	130.00	80.00	60.00	255.00	75.00	125.00	80.00
25th %tile	205.00	175.00	230.00	195.00	265.00	135.00	310.00	285.00
50th %tile	305.00	260.00	340.00	310.00	355.00	250.00	350.00	300.00
75th %tile	365.00	340.00	385.00	360.00	555.00	325.00	425.00	355.00
80th %tile	400.00	385.00	425.00	400.00	555.00	340.00	425.00	390.00
90th %tile	480.00	400.00	475.00	480.00	590.00	415.00	515.00	420.00
95th %tile	545.00	415.00	510.00	540.00	660.00	570.00	515.00	530.00
98th %tile	590.00	430.00	735.00	555.00	660.00	610.00	515.00	530.00
99th %tile	660.00	430.00	735.00	590.00	660.00	610.00	515.00	530.00
Max Value	735.00	430.00	735.00	590.00	660.00	610.00	515.00	530.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Gold [Au]
Number of Values - 176
Units - ppb
Detection Limit - 1-var
Analytical Method - FA-NA

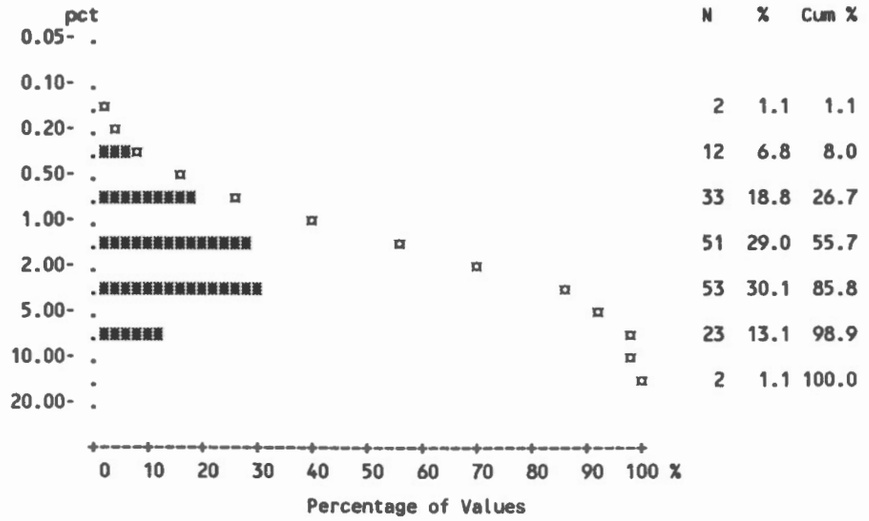


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	7	1	3	2	1	0	0	0
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	0.61	0.57	0.91	0.53	0.64	-	-	-
Standard Deviation	0.79	0.34	1.70	0.20	0.45	-	-	-
Skewness	10.06	3.82	4.49	6.71	2.47	-	-	-
Excess Kurtosis	111.73	13.29	20.40	46.08	4.52	-	-	-
Coef. of Var. %	129.56	58.33	186.39	37.03	71.07	-	-	-
Std. Error of the Mean	0.06	0.075	0.29	0.025	0.14	-	-	-
Lower 95% limit on Mean	0.49	0.42	0.33	0.48	0.33	-	-	-
Upper 95% limit on Mean	0.73	0.73	1.50	0.58	0.94	-	-	-
Geometric Statistics								
Mean	0.53	0.54	0.60	0.52	0.57	-	-	-
Log10 Mean	-0.27	-0.27	-0.22	-0.29	-0.25	-	-	-
Log10 S.D.	0.15	0.13	0.28	0.084	0.18	-	-	-
Log10 Std. Error of Mean	0.01	0.030	0.047	0.010	0.055	-	-	-
Lower 95% limit on Mean	0.51	0.46	0.48	0.49	0.43	-	-	-
Upper 95% limit on Mean	0.56	0.62	0.75	0.54	0.75	-	-	-
Percentiles								
Min Value	0.50	0.50	0.50	0.50	0.50	-	-	-
25th %tile	0.50	0.50	0.50	0.50	0.50	-	-	-
50th %tile	0.50	0.50	0.50	0.50	0.50	-	-	-
75th %tile	0.50	0.50	0.50	0.50	0.50	-	-	-
80th %tile	0.50	0.50	0.50	0.50	0.50	-	-	-
90th %tile	0.50	0.50	0.50	0.50	0.50	-	-	-
95th %tile	0.50	0.50	4.00	0.50	2.00	-	-	-
98th %tile	2.00	2.00	10.00	1.00	2.00	-	-	-
99th %tile	4.00	2.00	10.00	2.00	2.00	-	-	-
Max Value	10.00	2.00	10.00	2.00	2.00	-	-	-

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Iron [Fe]
Number of Values - 176
Units - pct
Detection Limit - 0.02
Analytical Method - AAS

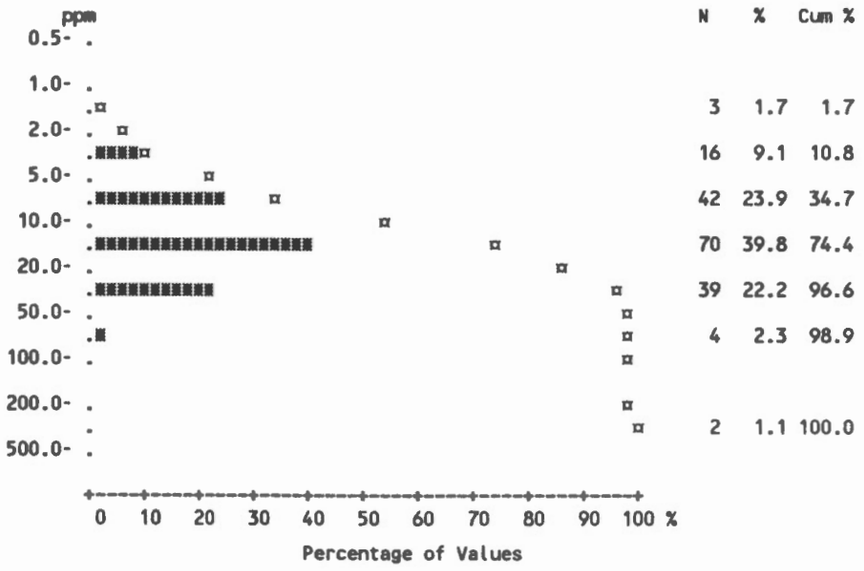


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	176	20	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	2.63	4.22	2.47	2.53	3.04	1.95	1.35	3.01
Standard Deviation	2.33	2.70	1.81	2.46	2.77	1.93	0.76	2.50
Skewness	1.49	0.37	1.36	1.76	1.44	1.22	-0.46	0.92
Excess Kurtosis	1.87	-1.29	1.72	3.03	0.75	0.22	-1.60	-0.40
Coef. of Var. %	88.58	63.98	73.22	97.36	91.08	98.99	56.59	82.90
Std. Error of the Mean	0.18	0.60	0.31	0.31	0.84	0.39	0.34	0.72
Lower 95% limit on Mean	2.29	2.96	1.84	1.91	1.18	1.14	0.40	1.43
Upper 95% limit on Mean	2.98	5.48	3.09	3.14	4.90	2.77	2.29	4.60
Geometric Statistics								
Mean	1.80	3.26	1.89	1.67	2.30	1.25	1.02	2.16
Log10 Mean	0.26	0.51	0.28	0.22	0.36	0.098	0	0.33
Log10 S.D.	0.39	0.35	0.34	0.40	0.32	0.42	0.45	0.39
Log10 Std. Error of Mean	0.03	0.079	0.058	0.050	0.097	0.086	0.20	0.11
Lower 95% limit on Mean	1.58	2.23	1.44	1.33	1.40	0.83	0.28	1.23
Upper 95% limit on Mean	2.06	4.77	2.48	2.11	3.77	1.88	3.66	3.81
Percentiles								
Min Value	0.20	0.50	0.30	0.20	0.90	0.30	0.20	0.40
25th %tile	0.90	1.90	1.40	0.80	1.30	0.50	1.10	1.10
50th %tile	1.80	3.80	1.90	1.60	2.00	1.00	1.40	2.00
75th %tile	3.50	6.20	3.40	3.10	3.20	2.50	1.90	4.30
80th %tile	4.30	7.30	3.40	3.90	3.20	4.30	1.90	4.90
90th %tile	6.20	8.10	4.80	6.10	6.60	4.70	2.10	6.10
95th %tile	8.10	8.50	6.10	6.50	9.90	6.30	2.10	8.70
98th %tile	8.80	8.80	8.40	11.00	9.90	6.80	2.10	8.70
99th %tile	11.00	8.80	8.40	11.40	9.90	6.80	2.10	8.70
Max Value	11.40	8.80	8.40	11.40	9.90	6.80	2.10	8.70

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Lead [Pb]
Number of Values - 176
Units - ppm
Detection Limit - 2
Analytical Method - AAS

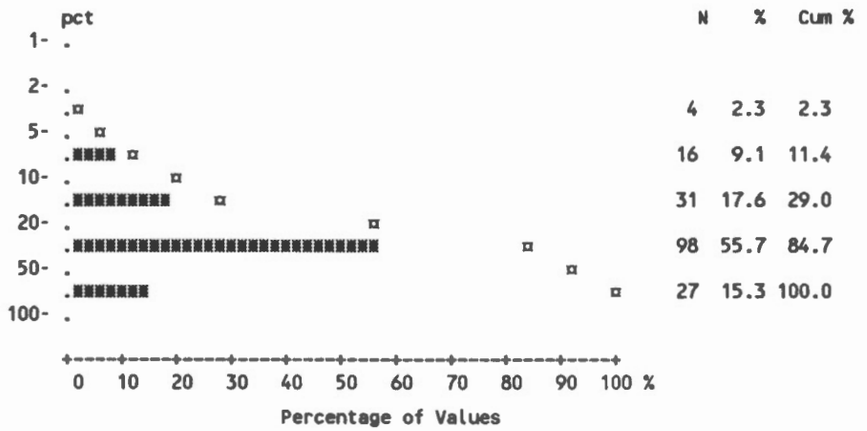


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	176	20	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	19.19	10.45	21.40	24.19	14.45	12.96	10.00	23.50
Standard Deviation	33.03	6.53	41.78	43.20	5.41	13.70	4.47	15.77
Skewness	7.97	2.22	5.11	6.82	-0.055	2.66	-0.47	0.47
Excess Kurtosis	70.91	4.72	25.90	48.81	-0.97	7.43	-1.48	-1.25
Coef. of Var. %	172.09	62.44	195.22	178.62	37.43	105.75	44.72	67.12
Std. Error of the Mean	2.49	1.46	7.06	5.40	1.63	2.80	2.00	4.55
Lower 95% limit on Mean	14.28	7.40	7.04	13.39	10.82	7.17	4.45	13.48
Upper 95% limit on Mean	24.11	13.50	35.76	34.98	18.09	18.75	15.55	33.52
Geometric Statistics								
Mean	13.23	9.24	13.64	16.34	13.36	9.21	8.82	18.52
Log10 Mean	1.12	0.97	1.13	1.21	1.13	0.96	0.95	1.27
Log10 S.D.	0.33	0.20	0.32	0.34	0.19	0.36	0.27	0.33
Log10 Std. Error of Mean	0.02	0.046	0.055	0.043	0.058	0.073	0.12	0.094
Lower 95% limit on Mean	11.82	7.42	10.56	13.43	9.91	6.52	4.03	11.48
Upper 95% limit on Mean	14.80	11.52	17.63	19.87	18.01	13.01	19.29	29.87
Percentiles								
Min Value	2.00	4.00	4.00	2.00	5.00	2.00	3.00	6.00
25th %tile	9.00	7.00	8.00	12.00	11.00	5.00	9.00	9.00
50th %tile	13.00	9.00	13.00	15.00	15.00	10.00	11.00	19.00
75th %tile	21.00	11.00	20.00	26.00	19.00	13.00	12.00	34.00
80th %tile	24.00	12.00	21.00	28.00	19.00	13.00	12.00	38.00
90th %tile	32.00	13.00	28.00	36.00	19.00	31.00	15.00	42.00
95th %tile	38.00	22.00	38.00	42.00	24.00	32.00	15.00	54.00
98th %tile	64.00	33.00	257.00	64.00	24.00	67.00	15.00	54.00
99th %tile	257.00	33.00	257.00	352.00	24.00	67.00	15.00	54.00
Max Value	352.00	33.00	257.00	352.00	24.00	67.00	15.00	54.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Loss-On-Ignition [LOI]
Number of Values - 176
Units - pct
Detection Limit - 1.0
Analytical Method - GRAV

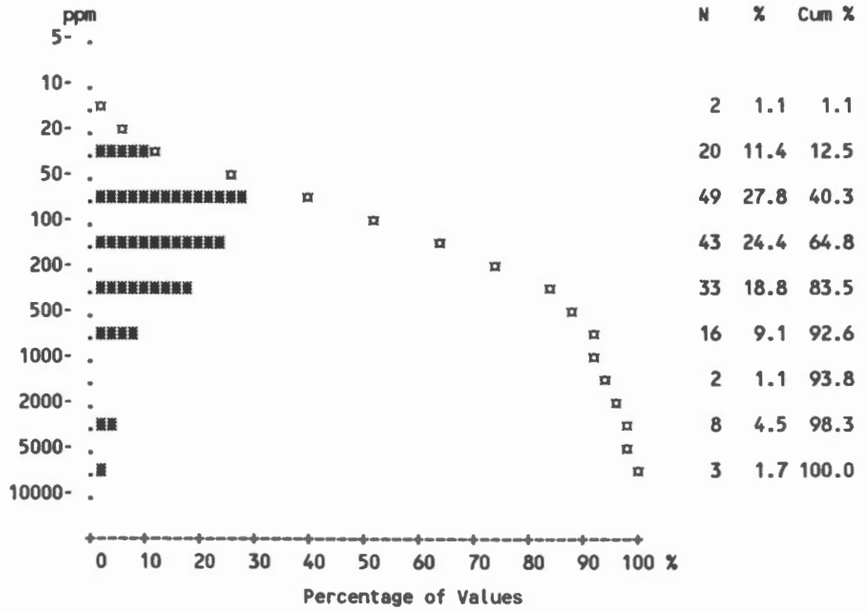


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	176	20	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	32.35	33.81	31.67	34.28	26.14	36.42	17.52	24.57
Standard Deviation	19.54	11.66	20.67	19.63	12.93	21.80	17.77	23.10
Skewness	1.01	-0.18	0.73	1.18	-0.46	0.98	0.99	1.80
Excess Kurtosis	0.94	-0.82	0.16	1.00	-1.16	-0.20	-1.03	2.64
Coef. of Var. %	60.41	34.50	65.25	57.27	49.46	59.85	101.44	94.05
Std. Error of the Mean	1.47	2.61	3.49	2.45	3.90	4.45	7.95	6.67
Lower 95% limit on Mean	29.44	28.35	24.57	29.37	17.45	27.22	-4.54	9.89
Upper 95% limit on Mean	35.26	39.26	38.78	39.18	34.82	45.63	39.58	39.25
Geometric Statistics								
Mean	26.35	31.51	24.54	29.31	21.09	31.11	12.90	17.33
Log10 Mean	1.42	1.50	1.39	1.47	1.32	1.49	1.11	1.24
Log10 S.D.	0.30	0.18	0.34	0.25	0.36	0.25	0.35	0.40
Log10 Std. Error of Mean	0.02	0.040	0.058	0.032	0.11	0.050	0.16	0.12
Lower 95% limit on Mean	23.76	26.00	18.71	25.35	12.00	24.47	4.77	9.67
Upper 95% limit on Mean	29.23	38.20	32.19	33.88	37.04	39.54	34.90	31.06
Percentiles								
Min Value	3.00	11.00	4.00	6.00	3.00	12.00	7.00	3.00
25th %tile	18.00	25.00	12.00	20.00	13.00	19.00	8.00	8.00
50th %tile	31.00	34.00	31.00	31.00	29.00	32.00	9.00	20.00
75th %tile	42.00	40.00	43.00	41.00	33.00	49.00	15.00	25.00
80th %tile	43.00	42.00	44.00	44.00	33.00	50.00	15.00	27.00
90th %tile	59.00	43.00	59.00	60.00	42.00	74.00	49.00	40.00
95th %tile	74.00	54.00	70.00	80.00	43.00	75.00	49.00	90.00
98th %tile	90.00	54.00	91.00	89.00	43.00	90.00	49.00	90.00
99th %tile	90.00	54.00	91.00	90.00	43.00	90.00	49.00	90.00
Max Value	91.00	54.00	91.00	90.00	43.00	90.00	49.00	90.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Manganese [Mn]
Number of Values - 176
Units - ppm
Detection Limit - 5
Analytical Method - AAS

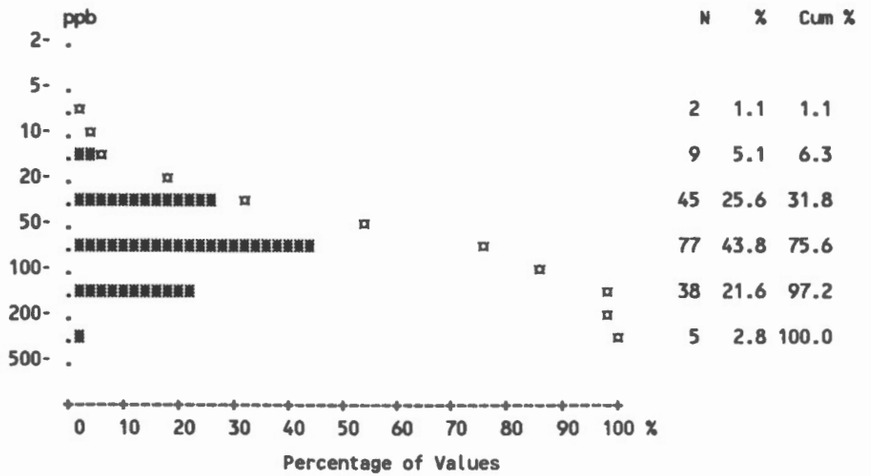


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	176	20	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	454.90	604.20	243.20	431.66	361.36	399.13	171.60	1027.50
Standard Deviation	1105.94	715.16	349.30	1146.59	543.23	1306.23	112.90	2112.60
Skewness	4.79	2.00	4.10	5.73	1.84	4.14	0.10	1.65
Excess Kurtosis	25.33	3.38	18.29	36.18	2.15	16.24	-1.64	0.95
Coef. of Var. %	243.12	118.37	143.63	265.63	150.33	327.27	65.79	205.61
Std. Error of the Mean	83.36	159.92	59.04	143.32	163.79	266.63	50.49	609.85
Lower 95% limit on Mean	290.34	269.50	123.13	145.24	-3.56	-152.54	31.44	-314.79
Upper 95% limit on Mean	619.46	938.90	363.27	718.08	726.29	950.79	311.76	2369.79
Geometric Statistics								
Mean	167.28	340.66	160.13	163.34	182.98	98.68	129.05	195.31
Log10 Mean	2.22	2.53	2.20	2.21	2.26	1.99	2.11	2.29
Log10 S.D.	0.52	0.50	0.36	0.51	0.48	0.55	0.43	0.77
Log10 Std. Error of Mean	0.04	0.11	0.060	0.064	0.14	0.11	0.19	0.22
Lower 95% limit on Mean	139.84	198.10	120.80	121.89	87.19	58.03	37.81	63.66
Upper 95% limit on Mean	200.10	585.83	212.27	218.88	384.03	167.83	440.45	599.21
Percentiles								
Min Value	10.00	40.00	40.00	20.00	70.00	20.00	20.00	10.00
25th %tile	80.00	160.00	100.00	70.00	80.00	40.00	120.00	90.00
50th %tile	130.00	340.00	150.00	130.00	100.00	80.00	170.00	120.00
75th %tile	330.00	700.00	190.00	340.00	340.00	130.00	210.00	170.00
80th %tile	380.00	730.00	250.00	380.00	340.00	200.00	210.00	420.00
90th %tile	730.00	880.00	470.00	650.00	860.00	340.00	330.00	4710.00
95th %tile	2120.00	2120.00	650.00	2060.00	1840.00	1050.00	330.00	6270.00
98th %tile	4800.00	2900.00	2070.00	2810.00	1840.00	6450.00	330.00	6270.00
99th %tile	6450.00	2900.00	2070.00	8520.00	1840.00	6450.00	330.00	6270.00
Max Value	8520.00	2900.00	2070.00	8520.00	1840.00	6450.00	330.00	6270.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Mercury [Hg]
Number of Values - 176
Units - ppb
Detection Limit - 10
Analytical Method - AAS

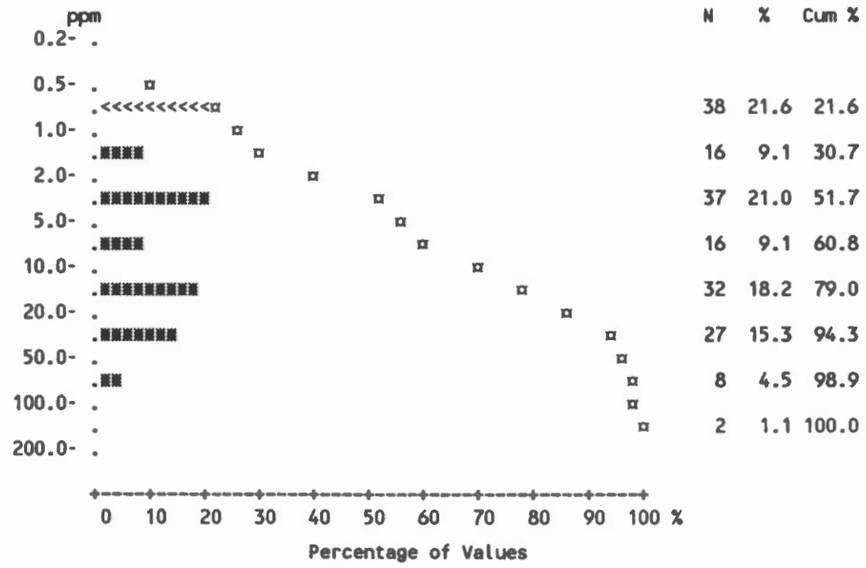


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	176	20	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	80.51	123.25	66.43	87.11	68.64	73.33	35.00	65.00
Standard Deviation	50.50	66.93	41.79	50.54	41.18	37.41	11.73	44.67
Skewness	1.96	0.66	0.55	3.26	0.22	0.62	0.84	1.21
Excess Kurtosis	7.31	-1.23	-0.65	16.39	-1.31	-0.58	-1.19	0.40
Coef. of Var. %	62.72	54.30	62.91	58.01	59.99	51.01	33.50	68.72
Std. Error of the Mean	3.81	14.97	7.06	6.32	12.41	7.64	5.24	12.90
Lower 95% limit on Mean	73.00	91.93	52.06	74.49	40.98	57.54	20.44	36.62
Upper 95% limit on Mean	88.03	154.57	80.79	99.73	96.30	89.13	49.56	93.38
Geometric Statistics								
Mean	67.01	107.74	52.62	77.51	54.57	64.36	33.68	53.79
Log10 Mean	1.83	2.03	1.72	1.89	1.74	1.81	1.53	1.73
Log10 S.D.	0.28	0.23	0.32	0.21	0.35	0.23	0.13	0.28
Log10 Std. Error of Mean	0.02	0.051	0.055	0.026	0.10	0.047	0.058	0.080
Lower 95% limit on Mean	60.98	84.18	40.75	68.87	31.96	51.33	23.23	35.80
Upper 95% limit on Mean	73.64	137.91	67.94	87.25	93.20	80.70	48.81	80.82
Percentiles								
Min Value	10.00	50.00	10.00	20.00	10.00	20.00	25.00	15.00
25th %tile	45.00	70.00	30.00	55.00	25.00	40.00	30.00	40.00
50th %tile	75.00	90.00	65.00	80.00	70.00	60.00	30.00	45.00
75th %tile	100.00	175.00	90.00	105.00	95.00	100.00	35.00	75.00
80th %tile	115.00	195.00	100.00	115.00	95.00	115.00	35.00	100.00
90th %tile	140.00	225.00	120.00	140.00	130.00	125.00	55.00	115.00
95th %tile	175.00	235.00	155.00	155.00	135.00	125.00	55.00	175.00
98th %tile	225.00	245.00	160.00	175.00	135.00	165.00	55.00	175.00
99th %tile	245.00	245.00	160.00	385.00	135.00	165.00	55.00	175.00
Max Value	385.00	245.00	160.00	385.00	135.00	165.00	55.00	175.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Molybdenum [Mo]
Number of Values - 176
Units - ppm
Detection Limit - 2
Analytical Method - AAS

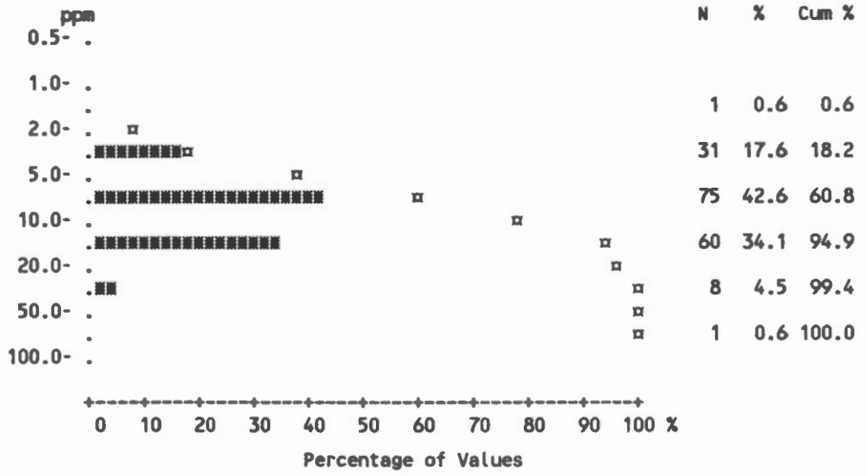


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	138	17	30	51	11	14	2	9
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	14.09	5.05	13.69	20.41	14.36	10.67	1.40	10.33
Standard Deviation	20.72	5.72	22.66	25.95	14.66	14.89	0.55	11.38
Skewness	2.93	2.19	4.16	1.83	0.81	1.33	0.29	0.88
Excess Kurtosis	10.46	3.69	19.03	2.85	-1.25	0.26	-2.25	-0.81
Coef. of Var. %	147.13	113.20	165.57	127.17	102.10	139.62	39.12	110.13
Std. Error of the Mean	1.56	1.28	3.83	3.24	4.42	3.04	0.24	3.29
Lower 95% limit on Mean	11.00	2.37	5.90	13.92	4.51	4.38	0.72	3.10
Upper 95% limit on Mean	17.17	7.73	21.47	26.89	24.21	16.96	2.08	17.56
Geometric Statistics								
Mean	6.00	3.45	6.71	8.66	8.83	3.92	1.32	5.04
Log10 Mean	0.78	0.54	0.83	0.94	0.95	0.59	0.12	0.70
Log10 S.D.	0.59	0.36	0.53	0.63	0.45	0.63	0.16	0.59
Log10 Std. Error of Mean	0.04	0.081	0.090	0.079	0.14	0.13	0.074	0.17
Lower 95% limit on Mean	4.91	2.33	4.41	6.01	4.40	2.12	0.82	2.14
Upper 95% limit on Mean	7.33	5.11	10.21	12.46	17.71	7.26	2.11	11.88
Percentiles								
Min Value	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00
25th %tile	2.00	2.00	3.00	2.00	4.00	1.00	1.00	1.00
50th %tile	5.00	4.00	9.00	11.00	7.00	3.00	1.00	3.00
75th %tile	18.00	5.00	16.00	22.00	31.00	11.00	2.00	14.00
80th %tile	22.00	5.00	16.00	28.00	31.00	22.00	2.00	18.00
90th %tile	35.00	7.00	27.00	68.00	38.00	38.00	2.00	31.00
95th %tile	68.00	19.00	35.00	74.00	40.00	42.00	2.00	32.00
98th %tile	74.00	23.00	133.00	95.00	40.00	48.00	2.00	32.00
99th %tile	119.00	23.00	133.00	119.00	40.00	48.00	2.00	32.00
Max Value	133.00	23.00	133.00	119.00	40.00	48.00	2.00	32.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Nickel [Ni]
Number of Values - 176
Units - ppm
Detection Limit - 2
Analytical Method - AAS

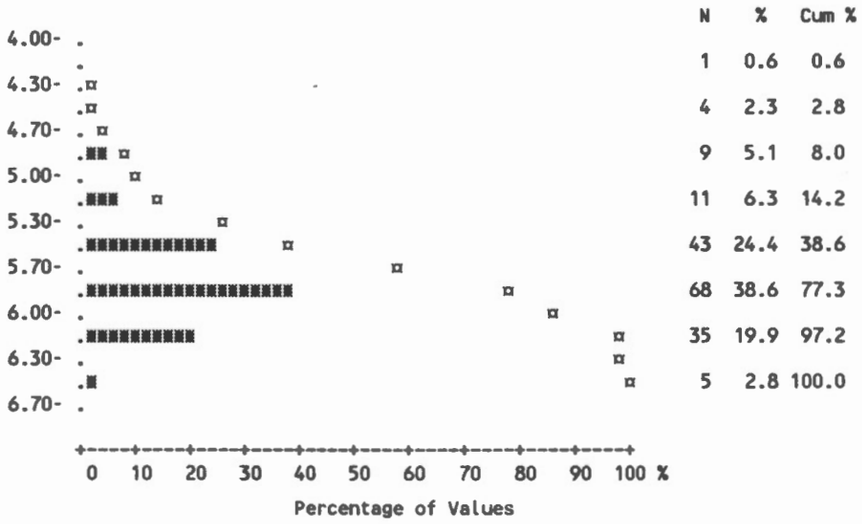


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	176	20	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	10.80	18.30	10.06	10.20	8.82	9.42	13.20	7.25
Standard Deviation	7.93	10.08	4.93	7.57	4.42	10.92	2.95	1.91
Skewness	3.10	1.76	0.33	3.23	-0.085	3.65	-0.25	0.031
Excess Kurtosis	12.85	2.59	-0.97	12.40	-1.94	13.38	-2.23	-0.69
Coef. of Var. %	73.46	55.08	49.01	74.24	50.16	115.95	22.35	26.38
Std. Error of the Mean	0.60	2.25	0.83	0.95	1.33	2.23	1.32	0.55
Lower 95% limit on Mean	9.62	13.58	8.36	8.31	5.85	4.81	9.54	6.03
Upper 95% limit on Mean	11.98	23.02	11.75	12.10	11.79	14.03	16.86	8.47
Geometric Statistics								
Mean	9.05	16.44	8.77	8.71	7.65	7.21	12.92	7.00
Log10 Mean	0.96	1.22	0.94	0.94	0.88	0.86	1.11	0.85
Log10 S.D.	0.25	0.19	0.25	0.23	0.25	0.28	0.10	0.12
Log10 Std. Error of Mean	0.02	0.044	0.041	0.028	0.077	0.057	0.046	0.035
Lower 95% limit on Mean	8.31	13.33	7.22	7.65	5.16	5.51	9.65	5.85
Upper 95% limit on Mean	9.85	20.28	10.64	9.91	11.35	9.43	17.30	8.38
Percentiles								
Min Value	2.00	7.00	2.00	4.00	3.00	3.00	10.00	4.00
25th %tile	6.00	13.00	6.00	6.00	4.00	5.00	10.00	5.00
50th %tile	9.00	14.00	9.00	8.00	10.00	7.00	15.00	7.00
75th %tile	13.00	19.00	14.00	12.00	13.00	9.00	15.00	8.00
80th %tile	14.00	21.00	14.00	13.00	13.00	10.00	15.00	8.00
90th %tile	18.00	30.00	16.00	18.00	14.00	14.00	16.00	9.00
95th %tile	21.00	36.00	20.00	19.00	14.00	18.00	16.00	11.00
98th %tile	43.00	50.00	20.00	43.00	14.00	58.00	16.00	11.00
99th %tile	50.00	50.00	20.00	48.00	14.00	58.00	16.00	11.00
Max Value	58.00	50.00	20.00	48.00	14.00	58.00	16.00	11.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - pH [pH]
Number of Values - 176
Units -
Detection Limit -
Analytical Method - GCM

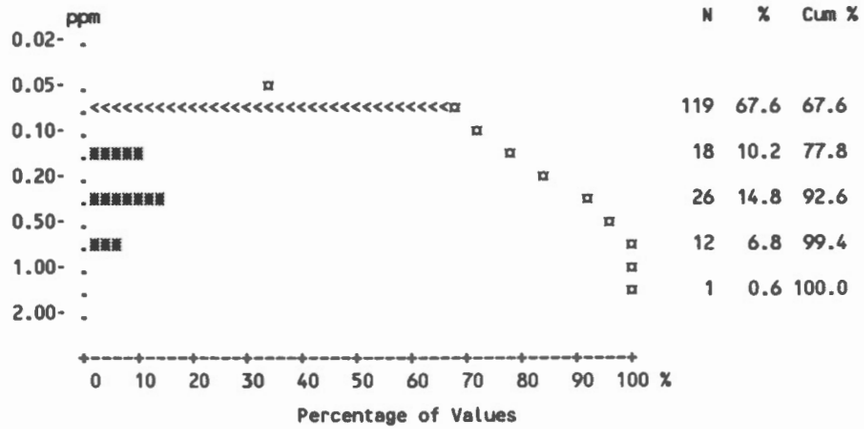


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	176	20	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	5.71	5.88	5.81	5.79	5.67	5.26	5.46	5.63
Standard Deviation	0.42	0.23	0.37	0.41	0.22	0.48	0.27	0.39
Skewness	-0.90	-0.51	-0.27	-0.88	-0.046	-0.40	-0.82	-1.39
Excess Kurtosis	1.00	-0.86	-0.41	1.10	-1.08	-1.15	-1.18	1.15
Coef. of Var. %	7.36	3.98	6.42	7.01	3.87	9.09	4.95	6.99
Std. Error of the Mean	0.03	0.052	0.063	0.051	0.066	0.098	0.12	0.11
Lower 95% limit on Mean	5.65	5.77	5.68	5.69	5.53	5.06	5.12	5.38
Upper 95% limit on Mean	5.77	5.98	5.93	5.90	5.82	5.46	5.80	5.88
Geometric Statistics								
Mean	5.69	5.87	5.79	5.78	5.67	5.24	5.45	5.62
Log10 Mean	0.76	0.77	0.76	0.76	0.75	0.72	0.74	0.75
Log10 S.D.	0.03	0.017	0.028	0.032	0.017	0.041	0.022	0.032
Log10 Std. Error of Mean	0.00	0	0	0	0	0	0	0
Lower 95% limit on Mean	5.63	5.76	5.67	5.67	5.52	5.03	5.12	5.36
Upper 95% limit on Mean	5.76	5.98	5.92	5.89	5.82	5.45	5.81	5.89
Percentiles								
Min Value	4.30	5.40	4.80	4.40	5.30	4.30	5.00	4.60
25th %tile	5.50	5.70	5.50	5.50	5.50	4.90	5.50	5.40
50th %tile	5.80	5.90	5.80	5.80	5.70	5.40	5.50	5.80
75th %tile	6.00	6.00	6.10	6.10	5.80	5.60	5.60	5.80
80th %tile	6.10	6.10	6.10	6.10	5.80	5.70	5.60	5.90
90th %tile	6.20	6.10	6.20	6.20	6.00	5.80	5.70	6.00
95th %tile	6.20	6.20	6.40	6.30	6.00	5.80	5.70	6.00
98th %tile	6.40	6.20	6.50	6.40	6.00	6.00	5.70	6.00
99th %tile	6.50	6.20	6.50	6.60	6.00	6.00	5.70	6.00
Max Value	6.60	6.20	6.50	6.60	6.00	6.00	5.70	6.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Silver [Ag]
Number of Values - 176
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

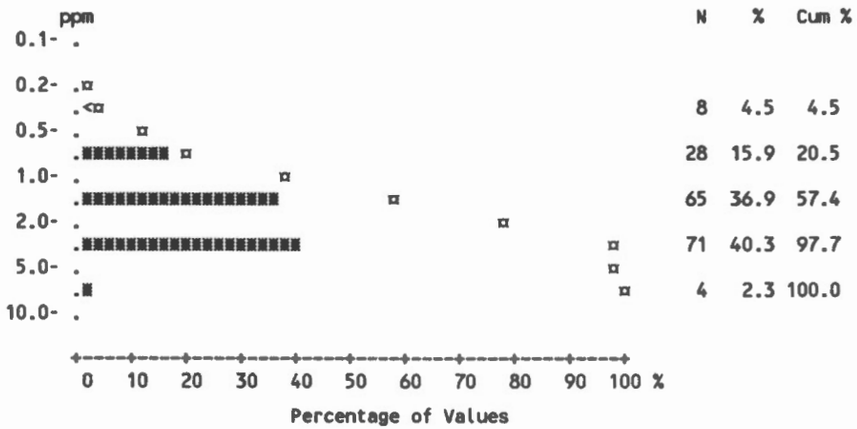


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	39	4	13	14	1	4	0	2
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	0.19	0.16	0.27	0.20	0.12	0.16	-	0.16
Standard Deviation	0.20	0.14	0.25	0.24	0.060	0.15	-	0.14
Skewness	2.52	1.62	1.14	2.63	2.47	2.43	-	1.65
Excess Kurtosis	6.95	0.90	0.21	7.06	4.52	5.30	-	0.95
Coef. of Var. %	105.02	84.06	91.99	117.02	51.02	92.97	-	87.09
Std. Error of the Mean	0.02	0.031	0.042	0.030	0.018	0.030	-	0.040
Lower 95% limit on Mean	0.16	0.10	0.18	0.14	0.078	0.096	-	0.071
Upper 95% limit on Mean	0.22	0.23	0.35	0.26	0.16	0.22	-	0.25
Geometric Statistics								
Mean	0.14	0.13	0.19	0.14	0.11	0.13	-	0.13
Log10 Mean	-0.85	-0.88	-0.73	-0.84	-0.96	-0.89	-	-0.89
Log10 S.D.	0.29	0.26	0.36	0.31	0.14	0.25	-	0.25
Log10 Std. Error of Mean	0.02	0.058	0.061	0.039	0.043	0.050	-	0.073
Lower 95% limit on Mean	0.13	0.10	0.14	0.12	0.088	0.10	-	0.089
Upper 95% limit on Mean	0.16	0.18	0.25	0.17	0.14	0.16	-	0.19
Percentiles								
Min Value	0.10	0.10	0.10	0.10	0.10	0.10	-	0.10
25th %tile	0.10	0.10	0.10	0.10	0.10	0.10	-	0.10
50th %tile	0.10	0.10	0.10	0.10	0.10	0.10	-	0.10
75th %tile	0.20	0.20	0.50	0.20	0.10	0.20	-	0.10
80th %tile	0.30	0.20	0.50	0.30	0.10	0.20	-	0.20
90th %tile	0.50	0.40	0.60	0.50	0.10	0.40	-	0.40
95th %tile	0.60	0.50	0.70	0.70	0.30	0.40	-	0.50
98th %tile	0.90	0.50	1.00	0.90	0.30	0.70	-	0.50
99th %tile	1.00	0.50	1.00	1.30	0.30	0.70	-	0.50
Max Value	1.30	0.50	1.00	1.30	0.30	0.70	-	0.50

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Tin [Sn]
Number of Values - 176
Units - ppm
Detection Limit - 1
Analytical Method - AAS

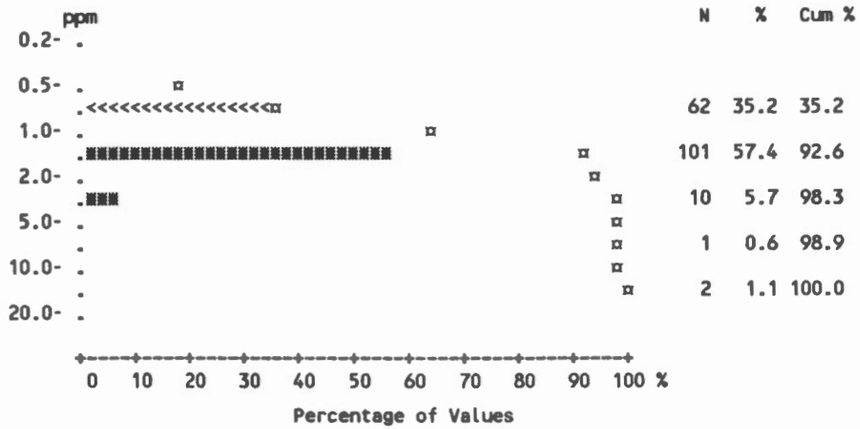


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	168	20	35	62	11	22	5	10
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	2.48	2.50	2.40	2.70	2.00	2.38	2.20	2.17
Standard Deviation	1.28	1.15	1.09	1.24	0.77	1.76	0.45	0.91
Skewness	0.98	0.40	0.91	0.55	0	1.44	1.07	-0.70
Excess Kurtosis	1.56	-0.83	1.38	-0.28	-1.48	2.03	-0.92	-0.86
Coef. of Var. %	51.60	45.88	45.42	45.87	38.73	74.04	20.33	42.13
Std. Error of the Mean	0.10	0.26	0.18	0.15	0.23	0.36	0.20	0.26
Lower 95% limit on Mean	2.29	1.96	2.03	2.39	1.48	1.63	1.64	1.59
Upper 95% limit on Mean	2.67	3.04	2.77	3.01	2.52	3.12	2.76	2.75
Geometric Statistics								
Mean	2.15	2.24	2.17	2.40	1.85	1.86	2.17	1.88
Log10 Mean	0.33	0.35	0.34	0.38	0.27	0.27	0.34	0.27
Log10 S.D.	0.25	0.22	0.21	0.23	0.19	0.31	0.079	0.28
Log10 Std. Error of Mean	0.02	0.049	0.035	0.028	0.057	0.064	0.035	0.081
Lower 95% limit on Mean	1.97	1.77	1.84	2.11	1.38	1.37	1.73	1.25
Upper 95% limit on Mean	2.34	2.83	2.55	2.74	2.47	2.53	2.72	2.84
Percentiles								
Min Value	0.50	1.00	1.00	0.50	1.00	0.50	2.00	0.50
25th %tile	2.00	2.00	2.00	2.00	1.00	1.00	2.00	2.00
50th %tile	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
75th %tile	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00
80th %tile	3.00	3.00	3.00	4.00	3.00	3.00	2.00	3.00
90th %tile	4.00	4.00	4.00	5.00	3.00	5.00	3.00	3.00
95th %tile	5.00	4.00	4.00	5.00	3.00	5.00	3.00	3.00
98th %tile	6.00	5.00	6.00	5.00	3.00	8.00	3.00	3.00
99th %tile	6.00	5.00	6.00	6.00	3.00	8.00	3.00	3.00
Max Value	8.00	5.00	6.00	6.00	3.00	8.00	3.00	3.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Tungsten [W]
Number of Values - 176
Units - ppm
Detection Limit - 2
Analytical Method - COL

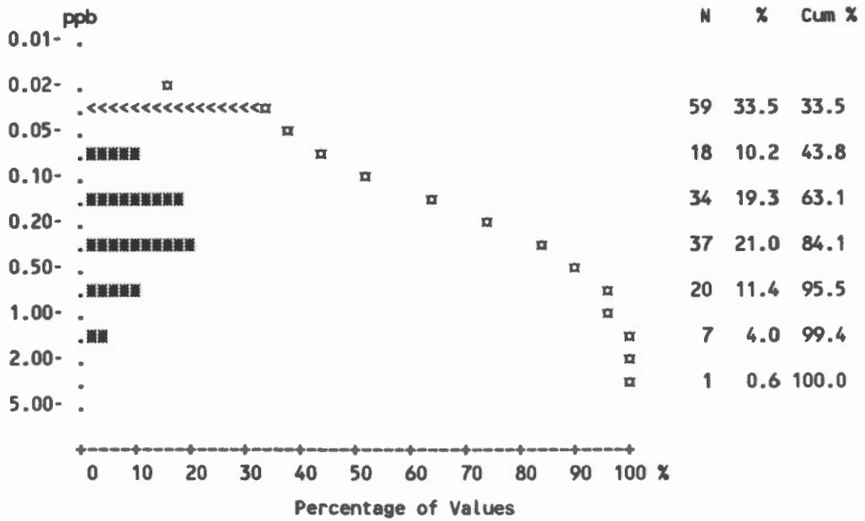


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	114	11	24	46	6	16	2	6
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	1.93	1.55	2.66	1.91	1.55	1.75	1.40	1.67
Standard Deviation	1.56	0.51	2.99	1.02	0.52	0.68	0.55	0.89
Skewness	5.67	-0.19	3.08	3.55	-0.16	1.11	0.29	1.32
Excess Kurtosis	39.36	-2.06	8.88	17.98	-2.15	2.64	-2.25	1.15
Coef. of Var. %	80.69	32.93	112.51	53.46	33.79	38.61	39.12	53.26
Std. Error of the Mean	0.12	0.11	0.51	0.13	0.16	0.14	0.24	0.26
Lower 95% limit on Mean	1.70	1.31	1.63	1.65	1.19	1.46	0.72	1.10
Upper 95% limit on Mean	2.16	1.79	3.68	2.16	1.90	2.04	2.08	2.23
Geometric Statistics								
Mean	1.68	1.46	1.98	1.74	1.46	1.63	1.32	1.50
Log10 Mean	0.23	0.17	0.30	0.24	0.16	0.21	0.12	0.18
Log10 S.D.	0.20	0.15	0.29	0.18	0.16	0.17	0.16	0.20
Log10 Std. Error of Mean	0.02	0.034	0.049	0.022	0.047	0.034	0.074	0.058
Lower 95% limit on Mean	1.57	1.24	1.58	1.57	1.14	1.39	0.82	1.12
Upper 95% limit on Mean	1.80	1.73	2.50	1.93	1.86	1.92	2.11	2.01
Percentiles								
Min Value	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25th %tile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
50th %tile	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00
75th %tile	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
80th %tile	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
90th %tile	2.00	2.00	4.00	2.00	2.00	2.00	2.00	2.00
95th %tile	4.00	2.00	14.00	4.00	2.00	2.00	2.00	4.00
98th %tile	4.00	2.00	14.00	4.00	2.00	4.00	2.00	4.00
99th %tile	14.00	2.00	14.00	8.00	2.00	4.00	2.00	4.00
Max Value	14.00	2.00	14.00	8.00	2.00	4.00	2.00	4.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Uranium in Water [U-W]
Number of Values - 176
Units - ppb
Detection Limit - 0.05
Analytical Method - LIF

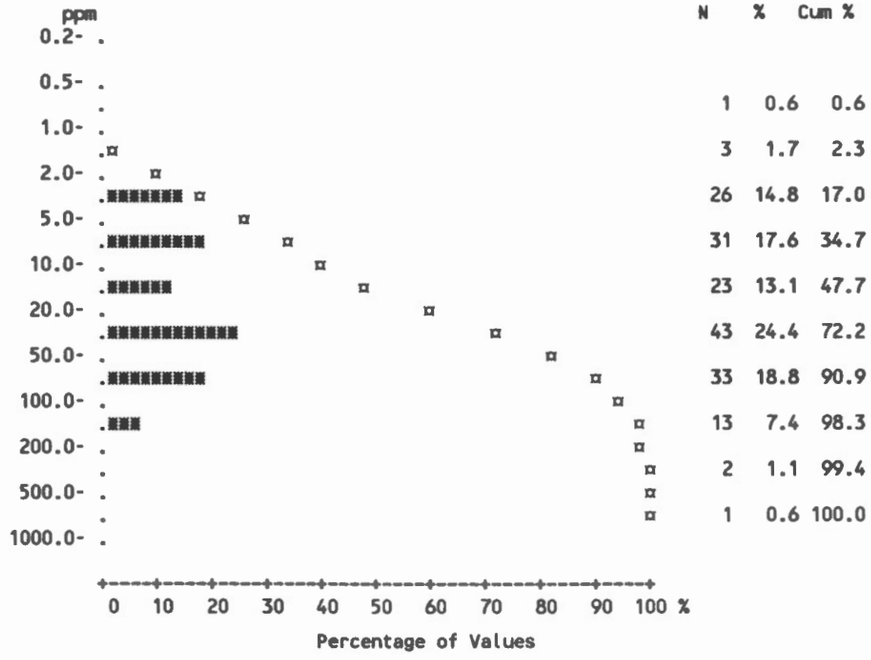


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	117	5	27	52	7	11	2	11
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	0.28	0.073	0.36	0.41	0.14	0.094	0.077	0.29
Standard Deviation	0.47	0.096	0.77	0.46	0.22	0.089	0.072	0.19
Skewness	5.30	1.68	4.73	1.68	2.20	1.12	0.34	0.49
Excess Kurtosis	40.53	1.53	23.12	2.25	3.63	0.76	-2.16	-0.63
Coef. of Var. %	169.86	130.86	212.67	113.87	163.01	95.34	93.49	64.12
Std. Error of the Mean	0.04	0.021	0.13	0.058	0.067	0.018	0.032	0.054
Lower 95% limit on Mean	0.21	0.028	0.098	0.29	-0.013	0.056	-0.012	0.17
Upper 95% limit on Mean	0.35	0.12	0.63	0.52	0.28	0.13	0.17	0.41
Geometric Statistics								
Mean	0.12	0.042	0.15	0.20	0.069	0.059	0.052	0.22
Log10 Mean	-0.92	-1.38	-0.81	-0.69	-1.16	-1.23	-1.29	-0.66
Log10 S.D.	0.57	0.41	0.56	0.57	0.47	0.43	0.43	0.40
Log10 Std. Error of Mean	0.04	0.092	0.094	0.071	0.14	0.088	0.19	0.11
Lower 95% limit on Mean	0.10	0.027	0.099	0.15	0.033	0.039	0.015	0.12
Upper 95% limit on Mean	0.15	0.066	0.24	0.28	0.14	0.090	0.18	0.39
Percentiles								
Min Value	0.03	0.025	0.025	0.025	0.025	0.025	0.025	0.025
25th %tile	0.03	0.025	0.070	0.090	0.025	0.025	0.025	0.15
50th %tile	0.14	0.025	0.17	0.22	0.060	0.025	0.025	0.23
75th %tile	0.34	0.050	0.37	0.55	0.17	0.17	0.14	0.40
80th %tile	0.38	0.12	0.37	0.63	0.17	0.17	0.14	0.42
90th %tile	0.69	0.22	0.71	1.07	0.18	0.19	0.17	0.46
95th %tile	1.00	0.26	0.86	1.47	0.78	0.19	0.17	0.69
98th %tile	1.75	0.35	4.62	1.83	0.78	0.36	0.17	0.69
99th %tile	1.90	0.35	4.62	1.90	0.78	0.36	0.17	0.69
Max Value	4.62	0.35	4.62	1.90	0.78	0.36	0.17	0.69

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Uranium [U]
Number of Values - 176
Units - ppm
Detection Limit - 0.5
Analytical Method - NADNC

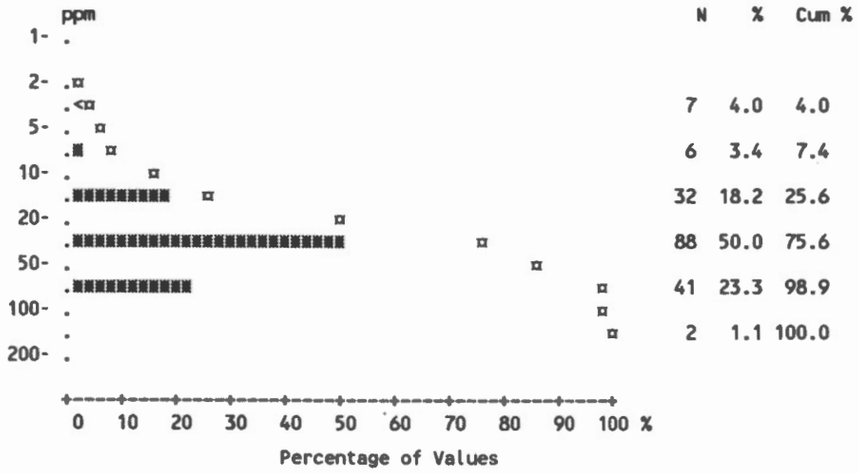


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	176	20	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	40.34	12.61	42.06	57.53	35.61	20.65	5.04	50.61
Standard Deviation	56.13	18.61	44.13	74.77	32.49	29.65	2.29	55.03
Skewness	4.42	2.74	1.32	4.13	0.46	2.55	0	1.74
Excess Kurtosis	31.15	7.30	0.82	21.95	-1.60	7.08	-2.00	2.43
Coef. of Var. %	139.15	147.64	104.94	129.98	91.25	143.56	45.37	108.75
Std. Error of the Mean	4.23	4.16	7.46	9.35	9.80	6.05	1.02	15.89
Lower 95% limit on Mean	31.98	3.90	26.89	38.85	13.78	8.13	2.20	15.64
Upper 95% limit on Mean	48.69	21.31	57.23	76.21	57.44	33.17	7.88	85.58
Geometric Statistics								
Mean	19.65	7.34	23.73	33.15	21.45	9.83	4.58	29.20
Log10 Mean	1.29	0.87	1.38	1.52	1.33	0.99	0.66	1.47
Log10 S.D.	0.55	0.41	0.50	0.50	0.49	0.54	0.22	0.53
Log10 Std. Error of Mean	0.04	0.091	0.084	0.062	0.15	0.11	0.099	0.15
Lower 95% limit on Mean	16.25	4.73	15.98	24.88	10.02	5.84	2.43	13.45
Upper 95% limit on Mean	23.76	11.40	35.25	44.18	45.91	16.55	8.62	63.39
Percentiles								
Min Value	0.80	2.10	2.50	0.80	3.90	1.80	2.20	3.20
25th %tile	6.80	3.70	10.90	18.90	8.70	2.80	3.60	6.00
50th %tile	22.40	5.50	19.90	39.00	14.20	8.20	4.80	35.50
75th %tile	55.70	12.00	64.80	64.00	61.40	30.50	6.80	56.80
80th %tile	62.60	13.10	65.90	77.20	61.40	37.30	6.80	75.50
90th %tile	89.60	24.30	110.00	120.00	82.30	44.60	7.80	80.30
95th %tile	137.00	36.60	144.00	161.00	89.60	58.70	7.80	206.00
98th %tile	200.00	82.80	168.00	216.00	89.60	137.00	7.80	206.00
99th %tile	216.00	82.80	168.00	527.00	89.60	137.00	7.80	206.00
Max Value	527.00	82.80	168.00	527.00	89.60	137.00	7.80	206.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Vanadium [V]
Number of Values - 176
Units - ppm
Detection Limit - 5
Analytical Method - AAS

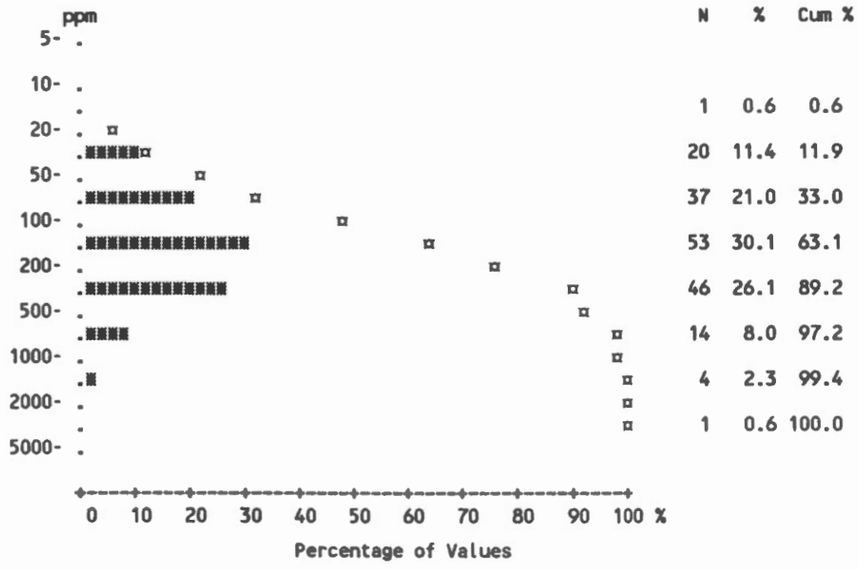


	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	171	20	35	61	11	23	5	11
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	38.05	68.30	41.54	31.51	36.18	30.85	30.20	36.04
Standard Deviation	22.78	25.13	21.86	17.12	15.68	22.60	10.89	21.01
Skewness	0.92	0.21	1.06	0.61	-0.39	0.56	-0.32	0.53
Excess Kurtosis	1.07	-0.39	1.52	0.49	-1.39	-1.15	-1.63	-0.13
Coef. of Var. %	59.87	36.80	52.63	54.32	43.35	73.26	36.08	58.29
Std. Error of the Mean	1.72	5.62	3.70	2.14	4.73	4.61	4.87	6.06
Lower 95% limit on Mean	34.66	56.54	34.03	27.23	25.65	21.31	16.67	22.69
Upper 95% limit on Mean	41.44	80.06	49.06	35.78	46.72	40.40	43.73	49.39
Geometric Statistics								
Mean	30.47	63.50	35.75	25.72	32.02	22.35	28.28	28.14
Log10 Mean	1.48	1.80	1.55	1.41	1.51	1.35	1.45	1.45
Log10 S.D.	0.33	0.18	0.26	0.33	0.25	0.39	0.19	0.39
Log10 Std. Error of Mean	0.02	0.040	0.044	0.041	0.075	0.080	0.084	0.11
Lower 95% limit on Mean	27.22	52.44	29.03	21.33	21.81	15.30	16.54	15.89
Upper 95% limit on Mean	34.10	76.89	44.02	31.01	47.00	32.64	48.34	49.85
Percentiles								
Min Value	2.50	26.00	5.00	2.50	10.00	2.50	14.00	2.50
25th %tile	20.00	41.00	28.00	17.00	18.00	13.00	26.00	17.00
50th %tile	36.00	70.00	38.00	29.00	38.00	20.00	33.00	34.00
75th %tile	50.00	83.00	51.00	42.00	52.00	46.00	35.00	42.00
80th %tile	54.00	85.00	53.00	46.00	52.00	56.00	35.00	48.00
90th %tile	72.00	89.00	62.00	52.00	54.00	65.00	43.00	57.00
95th %tile	83.00	97.00	94.00	59.00	55.00	73.00	43.00	83.00
98th %tile	94.00	128.00	110.00	72.00	55.00	74.00	43.00	83.00
99th %tile	110.00	128.00	110.00	87.00	55.00	74.00	43.00	83.00
Max Value	128.00	128.00	110.00	87.00	55.00	74.00	43.00	83.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Zinc [Zn]
Number of Values - 176
Units - ppm
Detection Limit - 2
Analytical Method - AAS



	All Units*	AAb	AAsv	AAvf	ABmg	Agn	AHgn	AMHg
Number of Values	176	20	35	64	11	24	5	12
Number of Values > D.L.	176	20	35	64	11	24	5	12
Number of Missing Values	0	0	0	0	0	0	0	0
Mean	251.77	151.25	232.54	375.92	233.55	137.63	77.00	201.92
Standard Deviation	309.09	87.59	435.03	336.95	160.30	162.21	18.91	156.35
Skewness	3.77	1.69	4.62	1.66	0.76	1.65	0.038	0.54
Excess Kurtosis	20.64	2.74	22.10	2.74	-0.87	1.33	-1.88	-1.35
Coef. of Var. %	122.77	57.91	187.08	89.63	68.64	117.87	24.56	77.43
Std. Error of the Mean	23.30	19.59	73.53	42.12	48.33	33.11	8.46	45.14
Lower 95% limit on Mean	205.78	110.26	83.00	291.75	125.86	69.12	53.53	102.57
Upper 95% limit on Mean	297.76	192.24	382.08	460.09	341.23	206.13	100.47	301.26
Geometric Statistics								
Mean	157.84	133.24	136.61	254.48	187.28	82.97	75.10	145.82
Log10 Mean	2.20	2.12	2.14	2.41	2.27	1.92	1.88	2.16
Log10 S.D.	0.41	0.22	0.37	0.41	0.31	0.43	0.11	0.38
Log10 Std. Error of Mean	0.03	0.049	0.063	0.052	0.094	0.087	0.049	0.11
Lower 95% limit on Mean	137.13	105.36	101.84	200.54	115.72	54.80	54.91	83.02
Upper 95% limit on Mean	181.68	168.50	183.25	322.93	303.09	125.64	102.71	256.11
Percentiles								
Min Value	14.00	50.00	32.00	24.00	62.00	14.00	54.00	43.00
25th %tile	82.00	100.00	73.00	137.00	110.00	39.00	63.00	50.00
50th %tile	145.00	121.00	117.00	271.00	188.00	74.00	81.00	125.00
75th %tile	317.00	159.00	181.00	446.00	317.00	105.00	85.00	309.00
80th %tile	388.00	189.00	225.00	521.00	317.00	192.00	85.00	364.00
90th %tile	521.00	215.00	450.00	902.00	502.00	467.00	102.00	419.00
95th %tile	851.00	299.00	638.00	1081.00	535.00	471.00	102.00	488.00
98th %tile	1083.00	430.00	2600.00	1420.00	535.00	596.00	102.00	488.00
99th %tile	1640.00	430.00	2600.00	1640.00	535.00	596.00	102.00	488.00
Max Value	2600.00	430.00	2600.00	1640.00	535.00	596.00	102.00	488.00

* Summary statistics not calculated for rock units with less than 5 values.

Summary Statistics for Total Data Set

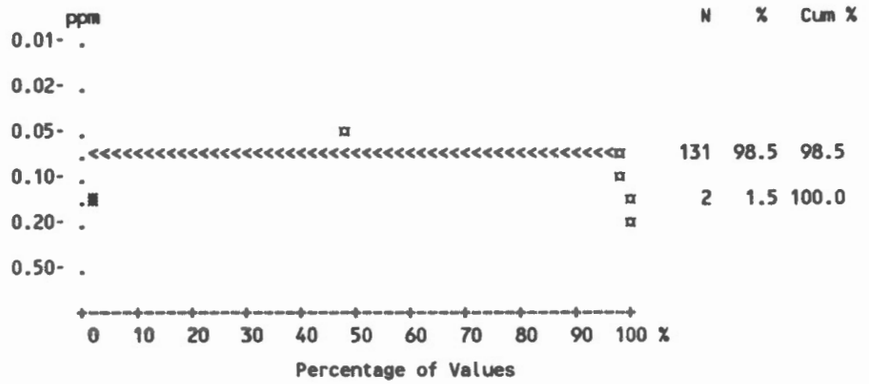
Variable	Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct
Detection Limit	2	2	2	2	2	0.2	5	1	2	0.02	10	1.0
Analytical Method	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV
Number of Values	133	133	133	133	133	133	133	133	133	133	133	133
Values > D.L.	133	133	133	105	113	2	133	121	69	133	123	132
Number of Missing Values	0	0	0	0	0	0	0	0	0	0	0	0
Mean	82.11	9.87	17.11	5.91	5.92	0.1060	384.93	2.25	4.24	2.16	34.21	9.82
Standard Deviation	98.88	8.91	12.50	8.16	4.72	0.0504	462.46	1.83	6.32	1.75	27.14	9.53
Skewness	2.95	2.86	2.04	4.44	1.75	8.57	3.75	2.40	4.01	6.41	1.88	3.20
Excess Kurtosis	10.12	10.39	4.69	23.67	3.94	75.14	18.64	8.62	22.57	55.02	4.24	13.11
Coef. of Var. %	120.42	90.28	73.07	137.99	79.73	47.53	120.14	81.56	149.15	80.92	79.34	97.02
Std Error of the Mean	8.57	0.7728	1.08	0.7071	0.4096	0.0044	40.10	0.1590	0.5484	0.1513	2.35	0.8263
Lower 95% limit on Mean	65.15	8.34	14.96	4.51	5.11	0.0974	305.61	1.93	3.16	1.86	29.55	8.19
Upper 95% limit on Mean	99.07	11.40	19.25	7.31	6.74	0.1147	464.26	2.56	5.33	2.46	38.87	11.46
Geometric Statistics												
Mean	51.83	7.55	13.99	3.72	4.35	0.1024	247.78	1.74	2.34	1.86	26.09	7.33
Log10 Mean	1.71	0.8780	1.15	0.5707	0.6383	-0.9896	2.39	0.2408	0.3696	0.2701	1.42	0.8648
Log10 S.D.	0.3982	0.3060	0.2681	0.3985	0.3625	0.0850	0.4016	0.3074	0.4320	0.2161	0.3288	0.3228
Log10 Std. Error of Mean	0.0345	0.0265	0.0232	0.0346	0.0314	0.0074	0.0348	0.0267	0.0375	0.0187	0.0285	0.0280
Lower 95% limit on Mean	44.29	6.69	12.58	3.18	3.77	0.0990	211.44	1.54	1.97	1.71	22.92	6.45
Upper 95% limit on Mean	60.66	8.52	15.55	4.36	5.02	0.1059	290.37	1.97	2.78	2.03	29.71	8.32
Percentiles												
Min Value	11.00	2.00	3.00	1.00	1.00	0.1000	40.00	0.5000	1.00	0.5000	5.00	0.5000
25th %tile	23.00	5.00	9.00	2.00	3.00	0.1000	120.00	1.00	1.00	1.40	20.00	5.00
50th %tile	43.00	7.00	13.00	4.00	5.00	0.1000	240.00	2.00	2.00	1.80	25.00	7.00
75th %tile	108.00	12.00	19.00	7.00	7.00	0.1000	490.00	3.00	5.00	2.40	45.00	11.00
80th %tile	121.00	13.00	23.00	7.00	8.00	0.1000	540.00	3.00	6.00	2.60	50.00	14.00
90th %tile	175.00	18.00	35.00	10.00	12.00	0.1000	760.00	4.00	13.00	3.40	75.00	18.00
95th %tile	233.00	26.00	42.00	16.00	15.00	0.2000	1060.00	6.00	15.00	3.90	90.00	28.00
98th %tile	512.00	42.00	55.00	34.00	22.00	0.2000	2180.00	7.00	19.00	6.50	110.00	47.00
99th %tile	563.00	50.00	69.00	52.00	22.00	0.4000	2320.00	8.00	30.00	7.00	125.00	49.00
Max Value	571.00	60.00	72.00	62.00	27.00	0.6000	3540.00	13.00	51.00	18.40	165.00	68.00

Summary Statistics for Total Data Set

Variable	U	F	V	Cd	Sb	W	Ba	Sn	Au	F-W	pH	U-W
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb		ppb
Detection Limit	0.5	20	5	0.2	0.2	2	40	1	1-var	20		0.05
Analytical Method	NADNC	ISE	AAS	AAS	AAS	COL	DCP	AAS	FA-NA	ISE	GCM	LIF
Number of Values	133	133	133	133	133	133	133	132	133	133	133	133
Values > D.L.	133	133	132	21	0	86	133	84	2	133	133	108
Number of Missing Values	0	0	0	0	0	0	0	1	0	0	0	0
Mean	12.96	293.08	22.30	0.1639	-	2.07	588.65	1.39	0.5226	104.66	5.85	0.5194
Standard Deviation	17.81	112.80	11.02	0.1810	-	1.30	146.86	1.47	0.1832	60.45	0.5246	0.6796
Skewness	3.61	3.08	1.69	3.71	-	2.43	-0.2132	6.14	7.88	1.31	-0.5660	3.06
Excess Kurtosis	15.84	15.78	5.84	16.10	-	9.65	-0.0256	52.97	60.55	1.99	0.1517	13.88
Coef. of Var. %	137.40	38.49	49.42	110.46	-	62.78	24.95	106.07	35.07	57.75	8.98	130.86
Std Error of the Mean	1.54	9.78	0.9558	0.0157	-	0.1126	12.73	0.1280	0.0159	5.24	0.0455	0.0589
Lower 95% limit on Mean	9.91	273.73	20.41	0.1329	-	1.85	563.46	1.13	0.4911	94.29	5.76	0.4028
Upper 95% limit on Mean	16.01	312.43	24.20	0.1950	-	2.29	613.85	1.64	0.5540	115.03	5.94	0.6359
Geometric Statistics												
Mean	7.88	277.12	19.91	0.1271	-	1.79	567.68	1.06	0.5105	89.64	5.82	0.2395
Log10 Mean	0.8965	2.44	1.30	-0.8959	-	0.2523	2.75	0.0236	-0.2920	1.95	0.7650	-0.6207
Log10 S.D.	0.4031	0.1426	0.2140	0.2522	-	0.2253	0.1240	0.3011	0.0735	0.2449	0.0404	0.6016
Log10 Std. Error of Mean	0.0350	0.0124	0.0186	0.0219	-	0.0195	0.0108	0.0262	0.0064	0.0212	0.0035	0.0522
Lower 95% limit on Mean	6.72	261.95	18.29	0.1150	-	1.64	540.53	0.9370	0.4959	81.38	5.73	0.1889
Upper 95% limit on Mean	9.24	293.18	21.66	0.1404	-	1.95	596.18	1.19	0.5256	98.75	5.91	0.3037
Percentiles												
Min Value	1.40	75.00	2.50	0.1000	-	1.00	170.00	0.5000	0.5000	20.00	4.40	0.0250
25th %tile	4.10	240.00	14.00	0.1000	-	1.00	492.00	0.5000	0.5000	60.00	5.50	0.1100
50th %tile	7.00	280.00	21.00	0.1000	-	2.00	590.00	1.00	0.5000	90.00	5.90	0.3000
75th %tile	15.20	315.00	27.00	0.1000	-	2.00	693.00	2.00	0.5000	140.00	6.20	0.6300
80th %tile	16.80	340.00	29.00	0.1000	-	2.00	720.00	2.00	0.5000	140.00	6.30	0.9000
90th %tile	26.60	390.00	36.00	0.4000	-	4.00	770.00	3.00	0.5000	170.00	6.40	1.25
95th %tile	51.70	430.00	38.00	0.5000	-	4.00	815.00	3.00	0.5000	220.00	6.50	1.76
98th %tile	78.30	550.00	56.00	0.7000	-	6.00	885.00	4.00	0.5000	290.00	6.60	2.62
99th %tile	90.00	915.00	56.00	1.10	-	6.00	900.00	4.00	2.00	320.00	6.70	2.77
Max Value	128.00	990.00	82.00	1.30	-	10.00	945.00	15.00	2.00	320.00	7.30	5.00

Statistics per Variable

Variable - Antimony [Sb]
Number of Values - 133
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

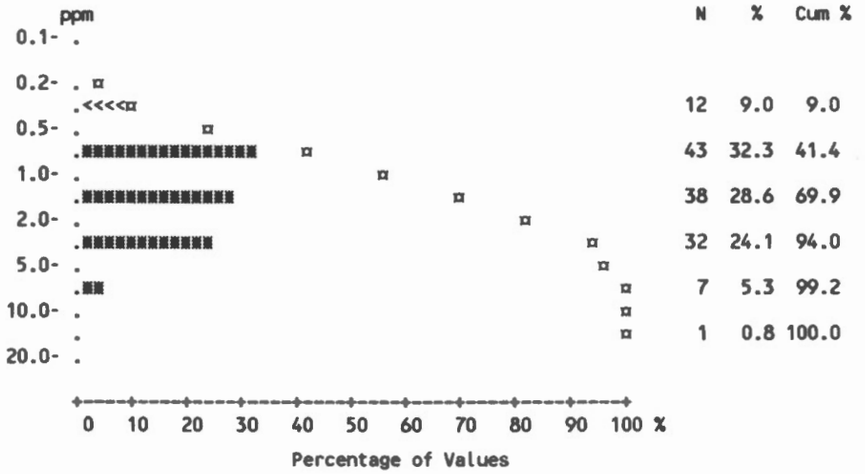


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	0	0	0	0	0	0	0	0	0
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	0.10	-	-	-	-	-	-	-	-
Standard Deviation	0.00	-	-	-	-	-	-	-	-
Skewness	0.00	-	-	-	-	-	-	-	-
Excess Kurtosis	0.00	-	-	-	-	-	-	-	-
Coef. of Var. %	0.00	-	-	-	-	-	-	-	-
Std. Error of the Mean	0.00	-	-	-	-	-	-	-	-
Lower 95% limit on Mean	0.10	-	-	-	-	-	-	-	-
Upper 95% limit on Mean	0.10	-	-	-	-	-	-	-	-
Geometric Statistics									
Mean	0.10	-	-	-	-	-	-	-	-
Log10 Mean	-1.00	-	-	-	-	-	-	-	-
Log10 S.D.	0.00	-	-	-	-	-	-	-	-
Log10 Std. Error of Mean	0.00	-	-	-	-	-	-	-	-
Lower 95% limit on Mean	0.10	-	-	-	-	-	-	-	-
Upper 95% limit on Mean	0.10	-	-	-	-	-	-	-	-
Percentiles									
Min Value	0.10	-	-	-	-	-	-	-	-
25th %tile	0.10	-	-	-	-	-	-	-	-
50th %tile	0.10	-	-	-	-	-	-	-	-
75th %tile	0.10	-	-	-	-	-	-	-	-
80th %tile	0.10	-	-	-	-	-	-	-	-
90th %tile	0.10	-	-	-	-	-	-	-	-
95th %tile	0.10	-	-	-	-	-	-	-	-
98th %tile	0.10	-	-	-	-	-	-	-	-
99th %tile	0.20	-	-	-	-	-	-	-	-
Max Value	0.20	-	-	-	-	-	-	-	-

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Arsenic [As]
Number of Values - 133
Units - ppm
Detection Limit - 1
Analytical Method - AAS

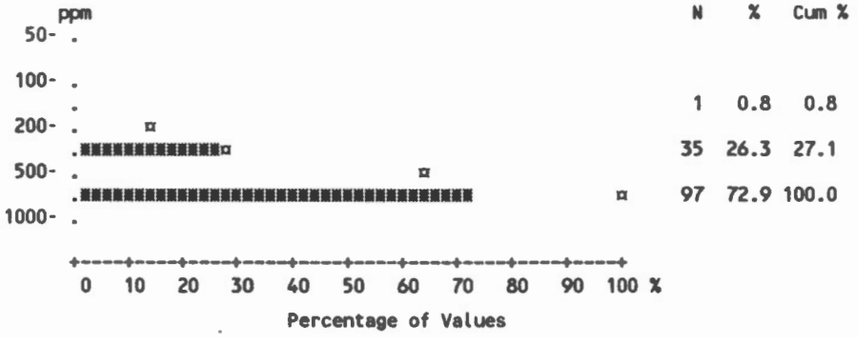


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	121	10	27	45	5	5	12	6	11
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	2.25	2.14	2.15	2.96	3.00	1.40	1.03	2.07	1.88
Standard Deviation	1.83	1.92	1.61	2.23	1.87	0.55	0.56	1.54	1.13
Skewness	2.40	1.41	1.95	2.24	0.55	0.29	0.78	0.77	0.46
Excess Kurtosis	8.62	0.89	4.08	6.67	-1.40	-2.25	-0.86	-0.89	-1.38
Coef. of Var. %	81.56	90.09	74.96	75.51	62.36	39.12	55.01	74.30	60.30
Std. Error of the Mean	0.16	0.58	0.31	0.33	0.84	0.24	0.13	0.58	0.33
Lower 95% limit on Mean	1.93	0.84	1.51	2.30	0.68	0.72	0.75	0.65	1.16
Upper 95% limit on Mean	2.56	3.43	2.79	3.61	5.32	2.08	1.30	3.49	2.59
Geometric Statistics									
Mean	1.74	1.59	1.76	2.37	2.55	1.32	0.90	1.63	1.57
Log10 Mean	0.24	0.20	0.25	0.37	0.41	0.12	-0.048	0.21	0.19
Log10 S.D.	0.31	0.34	0.26	0.29	0.28	0.16	0.23	0.34	0.28
Log10 Std. Error of Mean	0.03	0.10	0.051	0.043	0.13	0.074	0.053	0.13	0.081
Lower 95% limit on Mean	1.54	0.95	1.39	1.95	1.13	0.82	0.69	0.80	1.04
Upper 95% limit on Mean	1.97	2.68	2.24	2.89	5.76	2.11	1.16	3.32	2.36
Percentiles									
Min Value	0.50	0.50	1.00	0.50	1.00	1.00	0.50	0.50	0.50
25th %tile	1.00	1.00	1.00	2.00	2.00	1.00	0.50	1.00	1.00
50th %tile	2.00	1.00	2.00	2.00	3.00	1.00	1.00	2.00	1.00
75th %tile	3.00	3.00	3.00	3.00	3.00	2.00	1.00	3.00	3.00
80th %tile	3.00	3.00	3.00	4.00	3.00	2.00	2.00	3.00	3.00
90th %tile	4.00	4.00	4.00	6.00	6.00	2.00	2.00	5.00	3.00
95th %tile	6.00	7.00	5.00	7.00	6.00	2.00	2.00	5.00	4.00
98th %tile	7.00	7.00	8.00	13.00	6.00	2.00	2.00	5.00	4.00
99th %tile	8.00	7.00	8.00	13.00	6.00	2.00	2.00	5.00	4.00
Max Value	13.00	7.00	8.00	13.00	6.00	2.00	2.00	5.00	4.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Barium [Ba]
Number of Values - 133
Units - ppm
Detection Limit - 40
Analytical Method - DCP

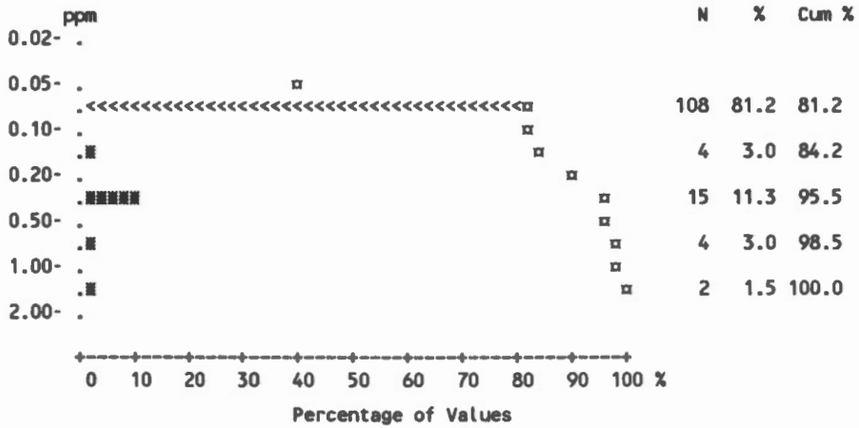


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	133	11	27	47	5	5	19	7	12
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	588.65	573.00	604.15	544.55	474.80	609.00	680.32	726.14	554.50
Standard Deviation	146.86	110.48	163.98	149.54	87.64	40.84	116.89	103.15	126.71
Skewness	-0.21	0.11	-0.75	0.027	0.17	-0.54	0.098	0.41	0.39
Excess Kurtosis	-0.03	-1.39	-0.22	0.30	-2.10	-1.57	-1.13	-1.76	-1.26
Coef. of Var. %	24.95	19.28	27.14	27.46	18.46	6.71	17.18	14.21	22.85
Std. Error of the Mean	12.73	33.31	31.56	21.81	39.19	18.26	26.82	38.99	36.58
Lower 95% limit on Mean	563.46	498.79	539.26	500.64	365.99	558.30	623.97	630.74	473.99
Upper 95% limit on Mean	613.85	647.21	669.03	588.47	583.61	659.70	736.66	821.55	635.01
Geometric Statistics									
Mean	567.68	563.23	576.39	521.63	468.42	607.87	670.70	720.09	541.64
Log10 Mean	2.75	2.75	2.76	2.72	2.67	2.78	2.83	2.86	2.73
Log10 S.D.	0.12	0.085	0.15	0.14	0.080	0.030	0.076	0.060	0.098
Log10 Std. Error of Mean	0.01	0.026	0.028	0.020	0.036	0.013	0.017	0.023	0.028
Lower 95% limit on Mean	540.53	493.84	504.16	475.70	372.97	558.12	616.64	633.43	469.39
Upper 95% limit on Mean	596.18	642.36	658.97	572.00	588.29	662.05	729.50	818.60	625.03
Percentiles									
Min Value	170.00	400.00	234.00	170.00	383.00	545.00	478.00	620.00	394.00
25th %tile	492.00	505.00	535.00	457.00	405.00	595.00	595.00	640.00	424.00
50th %tile	590.00	565.00	610.00	545.00	456.00	625.00	675.00	673.00	505.00
75th %tile	693.00	670.00	730.00	635.00	545.00	630.00	770.00	835.00	625.00
80th %tile	720.00	670.00	758.00	675.00	545.00	630.00	785.00	835.00	650.00
90th %tile	770.00	693.00	805.00	750.00	585.00	650.00	850.00	885.00	725.00
95th %tile	815.00	755.00	814.00	755.00	585.00	650.00	900.00	885.00	790.00
98th %tile	885.00	755.00	815.00	945.00	585.00	650.00	900.00	885.00	790.00
99th %tile	900.00	755.00	815.00	945.00	585.00	650.00	900.00	885.00	790.00
Max Value	945.00	755.00	815.00	945.00	585.00	650.00	900.00	885.00	790.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Cadmium [Cd]
Number of Values - 133
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

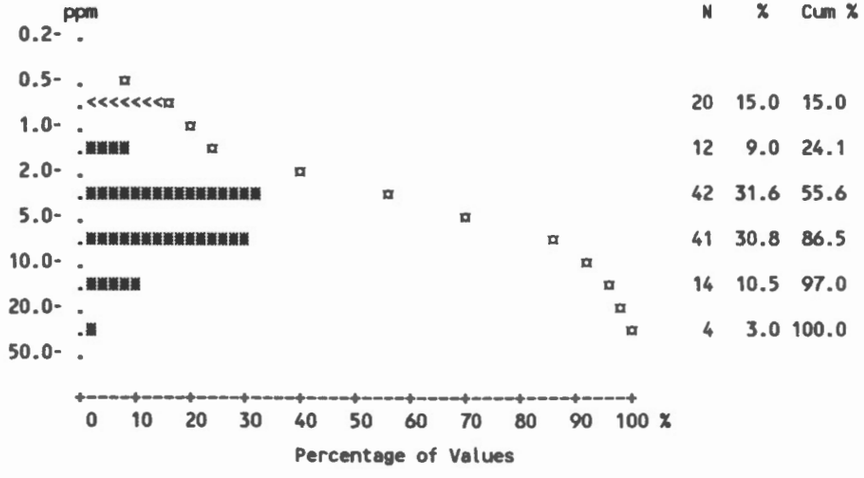


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	21	0	1	15	2	0	1	1	1
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	0.16	-	0.11	0.24	0.20	-	0.11	0.19	0.13
Standard Deviation	0.18	-	0.038	0.27	0.14	-	0.046	0.23	0.087
Skewness	3.71	-	4.63	2.23	0.42	-	3.69	1.62	2.65
Excess Kurtosis	16.10	-	20.22	5.06	-2.00	-	12.31	0.80	5.48
Coef. of Var. %	110.46	-	35.84	109.67	70.71	-	41.51	122.11	69.28
Std. Error of the Mean	0.02	-	0	0.039	0.063	-	0.011	0.086	0.025
Lower 95% limit on Mean	0.13	-	0.092	0.16	0.024	-	0.088	-0.024	0.070
Upper 95% limit on Mean	0.19	-	0.12	0.32	0.38	-	0.13	0.40	0.18
Geometric Statistics									
Mean	0.13	-	0.10	0.17	0.16	-	0.11	0.13	0.11
Log10 Mean	-0.90	-	-0.98	-0.78	-0.78	-	-0.97	-0.88	-0.95
Log10 S.D.	0.25	-	0.092	0.34	0.30	-	0.11	0.32	0.17
Log10 Std. Error of Mean	0.02	-	0.018	0.050	0.13	-	0.025	0.12	0.050
Lower 95% limit on Mean	0.12	-	0.096	0.13	0.070	-	0.094	0.067	0.087
Upper 95% limit on Mean	0.14	-	0.11	0.21	0.39	-	0.12	0.26	0.14
Percentiles									
Min Value	0.10	-	0.10	0.10	0.10	-	0.10	0.10	0.10
25th %tile	0.10	-	0.10	0.10	0.10	-	0.10	0.10	0.10
50th %tile	0.10	-	0.10	0.10	0.20	-	0.10	0.10	0.10
75th %tile	0.10	-	0.10	0.30	0.30	-	0.10	0.10	0.10
80th %tile	0.10	-	0.10	0.40	0.30	-	0.10	0.10	0.10
90th %tile	0.40	-	0.10	0.60	0.40	-	0.20	0.70	0.10
95th %tile	0.50	-	0.20	0.70	0.40	-	0.30	0.70	0.40
98th %tile	0.70	-	0.30	1.30	0.40	-	0.30	0.70	0.40
99th %tile	1.10	-	0.30	1.30	0.40	-	0.30	0.70	0.40
Max Value	1.30	-	0.30	1.30	0.40	-	0.30	0.70	0.40

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Cobalt [Co]
Number of Values - 133
Units - ppm
Detection Limit - 2
Analytical Method - AAS

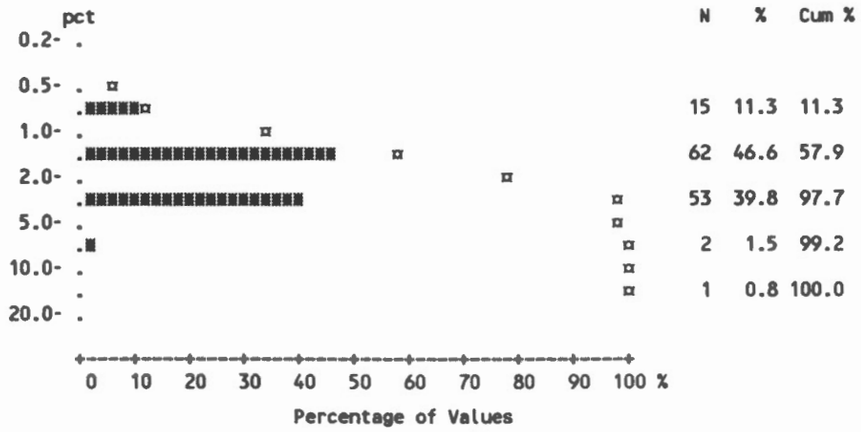


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	113	10	26	44	5	3	11	5	9
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	5.92	6.64	6.89	6.74	7.00	5.80	3.68	4.14	4.08
Standard Deviation	4.72	6.48	5.62	4.46	4.36	5.72	3.50	3.29	2.54
Skewness	1.75	1.34	2.29	1.20	0.087	0.25	1.14	0.40	0.098
Excess Kurtosis	3.94	0.37	5.14	1.14	-2.12	-2.24	0.26	-1.78	-1.63
Coef. of Var. %	79.73	97.72	81.55	66.12	62.27	98.59	94.91	79.36	62.18
Std. Error of the Mean	0.41	1.96	1.08	0.65	1.95	2.56	0.80	1.24	0.73
Lower 95% limit on Mean	5.11	2.28	4.67	5.44	1.59	-1.30	2.00	1.10	2.47
Upper 95% limit on Mean	6.74	10.99	9.11	8.05	12.41	12.90	5.37	7.18	5.70
Geometric Statistics									
Mean	4.35	4.59	5.48	5.41	5.76	3.37	2.44	2.99	3.19
Log10 Mean	0.64	0.66	0.74	0.73	0.76	0.53	0.39	0.48	0.50
Log10 S.D.	0.36	0.39	0.29	0.31	0.32	0.54	0.40	0.40	0.35
Log10 Std. Error of Mean	0.03	0.12	0.057	0.045	0.14	0.24	0.092	0.15	0.10
Lower 95% limit on Mean	3.77	2.51	4.19	4.39	2.29	0.72	1.56	1.29	1.92
Upper 95% limit on Mean	5.02	8.39	7.17	6.67	14.49	15.77	3.82	6.97	5.31
Percentiles									
Min Value	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00
25th %tile	3.00	2.00	4.00	4.00	4.00	1.00	1.00	1.00	1.00
50th %tile	5.00	5.00	6.00	6.00	6.00	3.00	2.00	3.00	4.00
75th %tile	7.00	6.00	7.00	8.00	11.00	12.00	6.00	8.00	6.00
80th %tile	8.00	6.00	8.00	9.00	11.00	12.00	7.00	8.00	7.00
90th %tile	12.00	16.00	10.00	13.00	12.00	12.00	9.00	9.00	7.00
95th %tile	15.00	22.00	22.00	15.00	12.00	12.00	13.00	9.00	8.00
98th %tile	22.00	22.00	27.00	21.00	12.00	12.00	13.00	9.00	8.00
99th %tile	22.00	22.00	27.00	21.00	12.00	12.00	13.00	9.00	8.00
Max Value	27.00	22.00	27.00	21.00	12.00	12.00	13.00	9.00	8.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Iron [Fe]
Number of Values - 133
Units - pct
Detection Limit - 0.02
Analytical Method - AAS

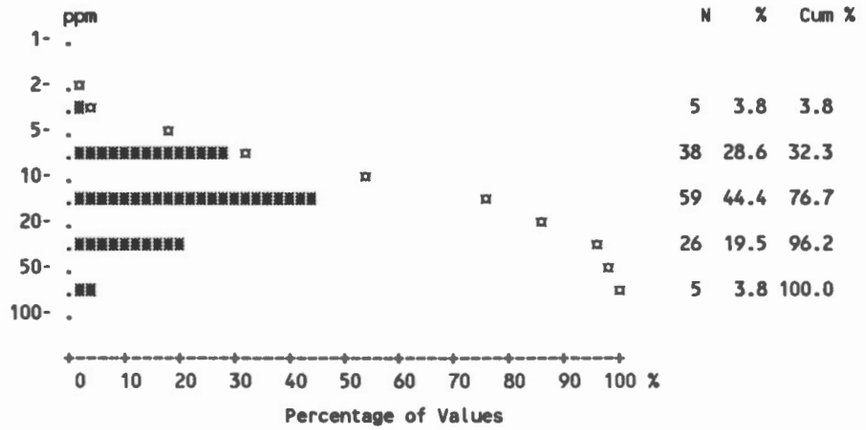


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	133	11	27	47	5	5	19	7	12
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	2.16	2.19	2.79	2.16	1.87	2.06	1.83	1.66	1.65
Standard Deviation	1.75	1.67	3.32	0.92	0.44	0.76	1.03	1.01	0.51
Skewness	6.41	2.07	3.92	0.93	0.24	-0.11	0.60	0.36	0.088
Excess Kurtosis	55.02	3.23	15.49	0.28	-2.23	-1.87	-1.02	-1.73	-1.08
Coef. of Var. %	80.92	76.40	118.82	42.67	23.72	36.89	55.90	60.82	30.88
Std. Error of the Mean	0.15	0.50	0.64	0.13	0.20	0.34	0.24	0.38	0.15
Lower 95% limit on Mean	1.86	1.07	1.48	1.89	1.32	1.12	1.34	0.73	1.33
Upper 95% limit on Mean	2.46	3.31	4.10	2.43	2.42	3.01	2.33	2.59	1.97
Geometric Statistics									
Mean	1.86	1.86	2.17	1.98	1.83	1.94	1.57	1.40	1.57
Log10 Mean	0.27	0.27	0.34	0.30	0.26	0.29	0.20	0.14	0.20
Log10 S.D.	0.22	0.23	0.25	0.18	0.10	0.18	0.25	0.28	0.14
Log10 Std. Error of Mean	0.02	0.070	0.049	0.026	0.045	0.080	0.058	0.11	0.042
Lower 95% limit on Mean	1.71	1.30	1.72	1.76	1.37	1.16	1.19	0.77	1.28
Upper 95% limit on Mean	2.03	2.67	2.74	2.24	2.44	3.23	2.08	2.54	1.94
Percentiles									
Min Value	0.50	1.00	0.90	0.80	1.50	1.10	0.50	0.60	0.90
25th %tile	1.40	1.40	1.50	1.40	1.50	1.60	1.00	0.80	1.10
50th %tile	1.80	1.70	2.00	2.00	1.60	2.30	1.70	1.30	1.60
75th %tile	2.40	2.30	2.60	2.60	2.30	2.40	2.40	2.60	1.70
80th %tile	2.60	2.30	2.90	2.90	2.30	2.40	3.20	2.60	2.10
90th %tile	3.40	2.70	3.80	3.60	2.40	3.00	3.40	3.20	2.40
95th %tile	3.90	7.00	6.50	4.10	2.40	3.00	3.90	3.20	2.50
98th %tile	6.50	7.00	18.40	4.70	2.40	3.00	3.90	3.20	2.50
99th %tile	7.00	7.00	18.40	4.70	2.40	3.00	3.90	3.20	2.50
Max Value	18.40	7.00	18.40	4.70	2.40	3.00	3.90	3.20	2.50

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Lead [Pb]
Number of Values - 133
Units - ppm
Detection Limit - 2
Analytical Method - AAS

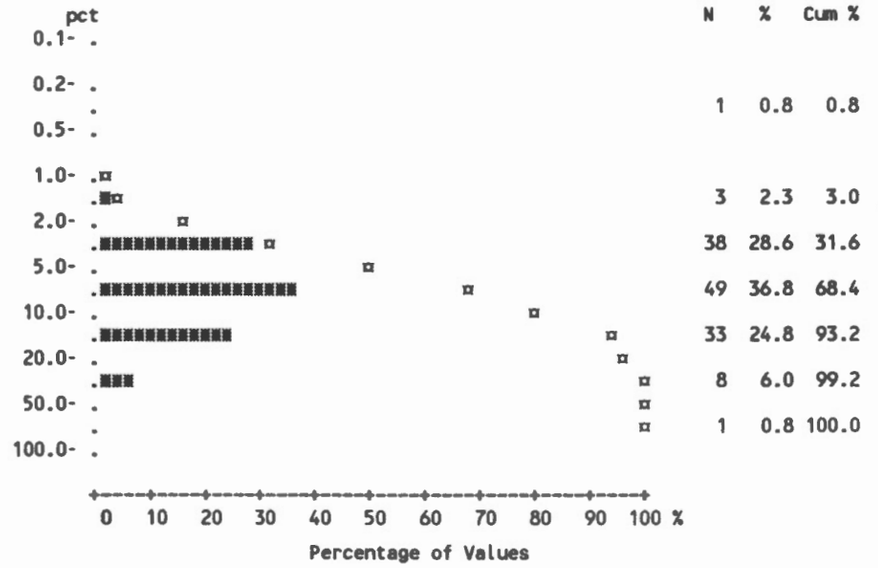


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	133	11	27	47	5	5	19	7	12
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	17.11	10.00	14.04	23.87	25.40	13.20	11.11	11.00	15.25
Standard Deviation	12.50	7.21	6.75	16.39	16.32	8.79	5.29	2.83	4.88
Skewness	2.04	0.82	1.25	1.19	0.81	0.29	1.68	0.19	0.28
Excess Kurtosis	4.69	-0.75	1.75	0.71	-1.25	-1.77	2.79	-1.85	-0.71
Coef. of Var. %	73.07	72.11	48.09	68.67	64.25	66.56	47.64	25.71	32.02
Std. Error of the Mean	1.08	2.17	1.30	2.39	7.30	3.93	1.21	1.07	1.41
Lower 95% limit on Mean	14.96	5.16	11.37	19.06	5.14	2.29	8.56	8.38	12.15
Upper 95% limit on Mean	19.25	14.84	16.71	28.69	45.66	24.11	13.66	13.62	18.35
Geometric Statistics									
Mean	13.99	7.96	12.68	19.38	22.10	10.69	10.22	10.69	14.50
Log10 Mean	1.15	0.90	1.10	1.29	1.34	1.03	1.01	1.03	1.16
Log10 S.D.	0.27	0.31	0.20	0.28	0.25	0.33	0.17	0.11	0.15
Log10 Std. Error of Mean	0.02	0.093	0.038	0.041	0.11	0.15	0.040	0.042	0.043
Lower 95% limit on Mean	12.58	4.95	10.57	16.04	10.94	4.15	8.43	8.42	11.68
Upper 95% limit on Mean	15.55	12.80	15.21	23.42	44.65	27.55	12.38	13.57	18.00
Percentiles									
Min Value	3.00	3.00	6.00	7.00	13.00	4.00	6.00	8.00	7.00
25th %tile	9.00	4.00	9.00	12.00	14.00	6.00	7.00	8.00	11.00
50th %tile	13.00	6.00	13.00	17.00	21.00	14.00	9.00	11.00	15.00
75th %tile	19.00	13.00	17.00	35.00	26.00	16.00	13.00	14.00	17.00
80th %tile	23.00	13.00	17.00	37.00	26.00	16.00	14.00	14.00	18.00
90th %tile	35.00	20.00	21.00	50.00	53.00	26.00	18.00	15.00	21.00
95th %tile	42.00	25.00	29.00	55.00	53.00	26.00	28.00	15.00	25.00
98th %tile	55.00	25.00	35.00	72.00	53.00	26.00	28.00	15.00	25.00
99th %tile	69.00	25.00	35.00	72.00	53.00	26.00	28.00	15.00	25.00
Max Value	72.00	25.00	35.00	72.00	53.00	26.00	28.00	15.00	25.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Loss-On-Ignition [LOI]
Number of Values - 133
Units - pct
Detection Limit - 1.0
Analytical Method - GRAV

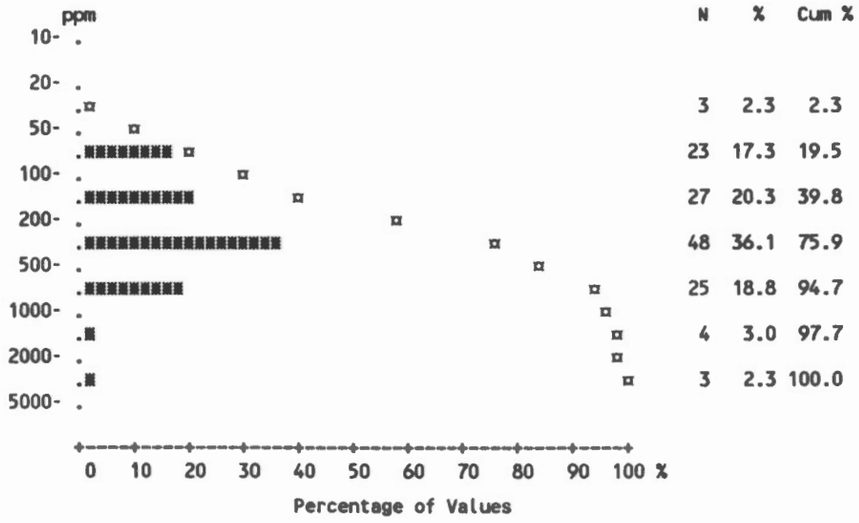


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	132	11	27	47	5	5	19	7	11
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	9.82	7.15	13.96	9.73	6.64	11.04	7.69	7.47	8.88
Standard Deviation	9.53	5.29	16.21	7.53	4.20	3.91	3.86	3.97	9.68
Skewness	3.20	1.60	2.02	1.58	0.58	-0.11	0.80	0.43	2.01
Excess Kurtosis	13.11	1.67	3.24	2.47	-1.42	-2.11	0.14	-1.23	3.36
Coef. of Var. %	97.02	74.07	116.12	77.42	63.30	35.42	50.10	53.13	109.10
Std. Error of the Mean	0.83	1.60	3.12	1.10	1.88	1.75	0.88	1.50	2.80
Lower 95% limit on Mean	8.19	3.59	7.55	7.52	1.42	6.19	5.84	3.80	2.72
Upper 95% limit on Mean	11.46	10.70	20.38	11.94	11.86	15.89	9.55	11.14	15.03
Geometric Statistics									
Mean	7.33	5.95	8.97	7.58	5.65	10.44	6.81	6.54	5.67
Log10 Mean	0.86	0.77	0.95	0.88	0.75	1.02	0.83	0.82	0.75
Log10 S.D.	0.32	0.26	0.39	0.31	0.28	0.17	0.23	0.25	0.46
Log10 Std. Error of Mean	0.03	0.079	0.075	0.045	0.12	0.075	0.052	0.096	0.13
Lower 95% limit on Mean	6.45	3.97	6.28	6.16	2.54	6.47	5.29	3.81	2.88
Upper 95% limit on Mean	8.32	8.90	12.82	9.32	12.57	16.84	8.76	11.21	11.17
Percentiles									
Min Value	0.50	3.00	2.00	2.00	2.00	6.00	2.00	2.00	0.50
25th %tile	5.00	3.00	5.00	4.00	4.00	8.00	5.00	5.00	4.00
50th %tile	7.00	6.00	8.00	7.00	7.00	11.00	7.00	6.00	7.00
75th %tile	11.00	8.00	14.00	14.00	7.00	15.00	10.00	10.00	10.00
80th %tile	14.00	8.00	18.00	16.00	7.00	15.00	11.00	10.00	11.00
90th %tile	18.00	11.00	47.00	18.00	13.00	15.00	14.00	14.00	12.00
95th %tile	28.00	21.00	49.00	26.00	13.00	15.00	18.00	14.00	37.00
98th %tile	47.00	21.00	68.00	37.00	13.00	15.00	18.00	14.00	37.00
99th %tile	49.00	21.00	68.00	37.00	13.00	15.00	18.00	14.00	37.00
Max Value	68.00	21.00	68.00	37.00	13.00	15.00	18.00	14.00	37.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Manganese [Mn]
Number of Values - 133
Units - ppm
Detection Limit - 5
Analytical Method - AAS

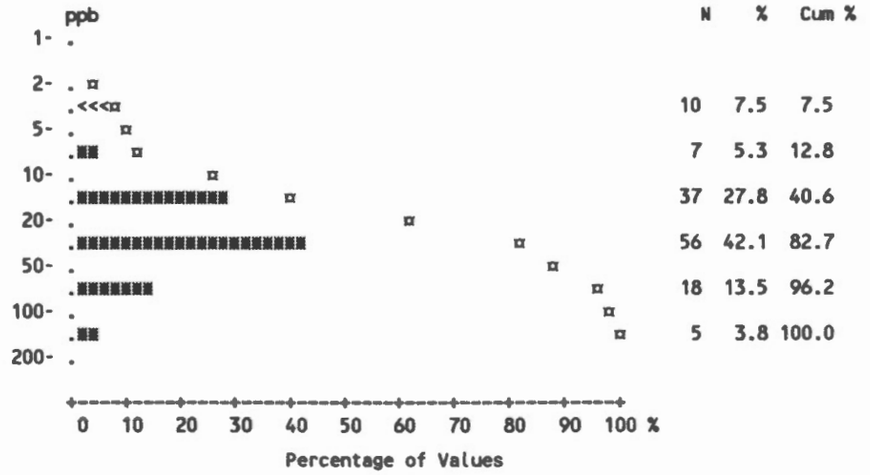


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	133	11	27	47	5	5	19	7	12
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	384.93	251.82	502.63	483.72	365.20	416.00	243.26	192.43	187.08
Standard Deviation	462.46	211.12	747.59	411.75	282.83	342.98	346.50	193.05	111.04
Skewness	3.75	1.07	2.99	2.40	0.30	-0.083	2.01	0.84	1.11
Excess Kurtosis	18.64	-0.48	8.45	6.75	-2.13	-2.13	3.13	-1.21	-0.25
Coef. of Var. %	120.14	83.84	148.74	85.12	77.45	82.45	142.44	100.32	59.35
Std. Error of the Mean	40.10	63.65	143.87	60.06	126.49	153.38	79.49	72.96	32.05
Lower 95% limit on Mean	305.61	110.00	206.82	362.81	14.08	-9.79	76.25	13.88	116.53
Upper 95% limit on Mean	464.26	393.64	798.43	604.63	716.32	841.79	410.28	370.97	257.63
Geometric Statistics									
Mean	247.78	190.45	304.49	367.94	278.84	246.52	130.30	128.04	163.56
Log10 Mean	2.39	2.28	2.48	2.57	2.45	2.39	2.11	2.11	2.21
Log10 S.D.	0.40	0.33	0.39	0.33	0.36	0.58	0.45	0.42	0.23
Log10 Std. Error of Mean	0.03	0.10	0.075	0.048	0.16	0.26	0.10	0.16	0.065
Lower 95% limit on Mean	211.44	113.83	213.63	294.77	98.28	47.61	79.16	52.50	117.47
Upper 95% limit on Mean	290.37	318.64	433.99	459.27	791.10	1276.36	214.48	312.27	227.73
Percentiles									
Min Value	40.00	70.00	70.00	60.00	100.00	50.00	40.00	40.00	80.00
25th %tile	120.00	100.00	190.00	230.00	180.00	70.00	70.00	60.00	100.00
50th %tile	240.00	180.00	300.00	400.00	210.00	510.00	80.00	110.00	140.00
75th %tile	490.00	320.00	400.00	600.00	600.00	630.00	170.00	390.00	200.00
80th %tile	540.00	320.00	490.00	630.00	600.00	630.00	370.00	390.00	210.00
90th %tile	760.00	630.00	1070.00	850.00	730.00	810.00	760.00	540.00	410.00
95th %tile	1060.00	680.00	2320.00	1060.00	730.00	810.00	1350.00	540.00	410.00
98th %tile	2180.00	680.00	3540.00	2180.00	730.00	810.00	1350.00	540.00	410.00
99th %tile	2320.00	680.00	3540.00	2180.00	730.00	810.00	1350.00	540.00	410.00
Max Value	3540.00	680.00	3540.00	2180.00	730.00	810.00	1350.00	540.00	410.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Mercury [Hg]
Number of Values - 133
Units - ppb
Detection Limit - 10
Analytical Method - AAS

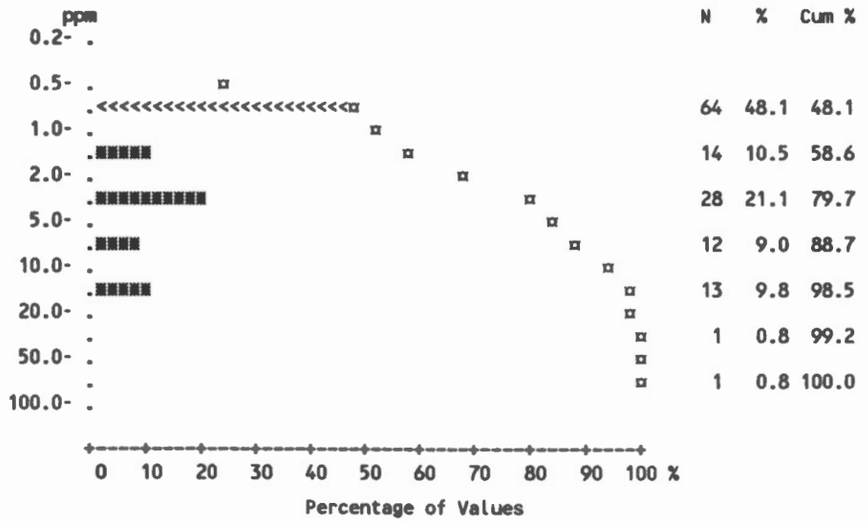


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	123	11	23	45	5	5	17	7	10
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	34.21	21.82	38.89	42.45	27.00	36.00	26.58	22.14	24.17
Standard Deviation	27.14	12.10	38.56	27.76	7.58	9.62	19.15	8.09	21.30
Skewness	1.88	1.69	1.77	0.79	0.84	0.28	1.78	0.41	1.41
Excess Kurtosis	4.24	2.32	2.52	-0.32	-1.12	-1.72	3.66	-1.70	1.16
Coef. of Var. %	79.34	55.45	99.16	65.40	28.08	26.72	72.06	36.54	88.15
Std. Error of the Mean	2.35	3.65	7.42	4.05	3.39	4.30	4.39	3.06	6.15
Lower 95% limit on Mean	29.55	13.69	23.63	34.30	17.59	24.06	17.35	14.66	10.63
Upper 95% limit on Mean	38.87	29.95	54.15	50.60	36.41	47.94	35.81	29.63	37.70
Geometric Statistics									
Mean	26.09	19.61	26.09	33.55	26.27	35.00	21.23	20.95	17.60
Log10 Mean	1.42	1.29	1.42	1.53	1.42	1.54	1.33	1.32	1.25
Log10 S.D.	0.33	0.20	0.40	0.32	0.11	0.12	0.31	0.15	0.36
Log10 Std. Error of Mean	0.03	0.061	0.078	0.047	0.049	0.052	0.072	0.058	0.11
Lower 95% limit on Mean	22.92	14.35	18.04	26.99	19.16	25.17	15.01	15.07	10.32
Upper 95% limit on Mean	29.71	26.80	37.73	41.70	36.01	48.66	30.04	29.12	30.03
Percentiles									
Min Value	5.00	10.00	5.00	5.00	20.00	25.00	5.00	15.00	5.00
25th %tile	20.00	15.00	20.00	20.00	25.00	30.00	15.00	15.00	10.00
50th %tile	25.00	20.00	25.00	35.00	25.00	35.00	25.00	20.00	15.00
75th %tile	45.00	25.00	50.00	60.00	25.00	40.00	35.00	30.00	25.00
80th %tile	50.00	25.00	50.00	65.00	25.00	40.00	35.00	30.00	35.00
90th %tile	75.00	25.00	90.00	85.00	40.00	50.00	45.00	35.00	45.00
95th %tile	90.00	55.00	125.00	105.00	40.00	50.00	90.00	35.00	80.00
98th %tile	110.00	55.00	165.00	110.00	40.00	50.00	90.00	35.00	80.00
99th %tile	125.00	55.00	165.00	110.00	40.00	50.00	90.00	35.00	80.00
Max Value	165.00	55.00	165.00	110.00	40.00	50.00	90.00	35.00	80.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Molybdenum [Mo]
Number of Values - 133
Units - ppm
Detection Limit - 2
Analytical Method - AAS

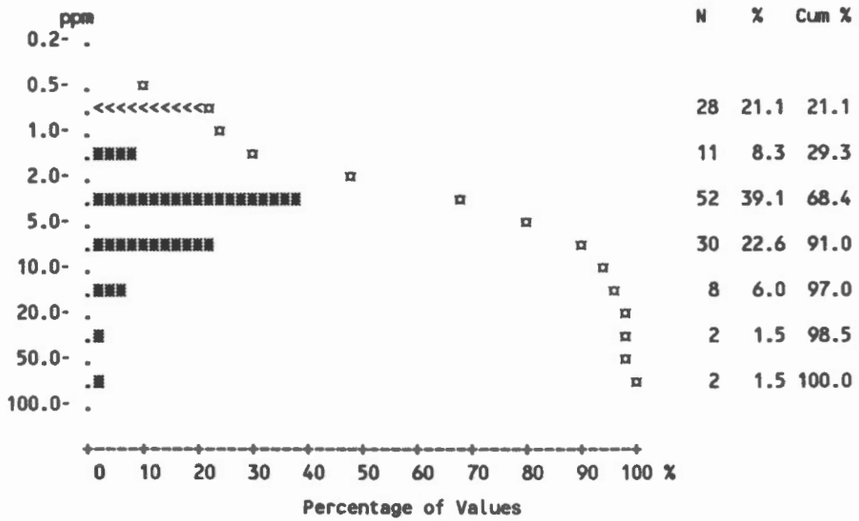


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	69	0	11	36	3	3	6	3	7
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	4.24	-	4.11	5.81	4.20	2.80	2.26	2.43	6.17
Standard Deviation	6.32	-	9.71	5.41	3.11	2.05	2.96	2.30	8.80
Skewness	4.01	-	4.18	1.09	-0.029	0.49	2.61	1.03	1.65
Excess Kurtosis	22.57	-	17.15	-0.11	-2.09	-1.57	6.31	-0.65	1.62
Coef. of Var. %	149.15	-	236.25	93.17	74.15	73.19	130.78	94.67	142.69
Std. Error of the Mean	0.55	-	1.87	0.79	1.39	0.92	0.68	0.87	2.54
Lower 95% limit on Mean	3.16	-	0.27	4.22	0.33	0.26	0.84	0.30	0.58
Upper 95% limit on Mean	5.33	-	7.95	7.40	8.07	5.34	3.69	4.55	11.76
Geometric Statistics									
Mean	2.34	-	1.87	3.73	2.99	2.22	1.53	1.78	2.93
Log10 Mean	0.37	-	0.27	0.57	0.48	0.35	0.18	0.25	0.47
Log10 S.D.	0.43	-	0.43	0.43	0.44	0.34	0.33	0.35	0.53
Log10 Std. Error of Mean	0.04	-	0.082	0.062	0.20	0.15	0.076	0.13	0.15
Lower 95% limit on Mean	1.97	-	1.27	2.79	0.85	0.84	1.06	0.85	1.36
Upper 95% limit on Mean	2.78	-	2.76	4.97	10.55	5.86	2.20	3.74	6.31
Percentiles									
Min Value	1.00	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25th %tile	1.00	-	1.00	2.00	1.00	1.00	1.00	1.00	1.00
50th %tile	2.00	-	1.00	4.00	5.00	3.00	1.00	1.00	2.00
75th %tile	5.00	-	3.00	9.00	6.00	3.00	2.00	4.00	4.00
80th %tile	6.00	-	4.00	10.00	6.00	3.00	2.00	4.00	13.00
90th %tile	13.00	-	6.00	15.00	8.00	6.00	6.00	7.00	14.00
95th %tile	15.00	-	13.00	17.00	8.00	6.00	13.00	7.00	30.00
98th %tile	19.00	-	51.00	19.00	8.00	6.00	13.00	7.00	30.00
99th %tile	30.00	-	51.00	19.00	8.00	6.00	13.00	7.00	30.00
Max Value	51.00	-	51.00	19.00	8.00	6.00	13.00	7.00	30.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Nickel [Ni]
Number of Values - 133
Units - ppm
Detection Limit - 2
Analytical Method - AAS

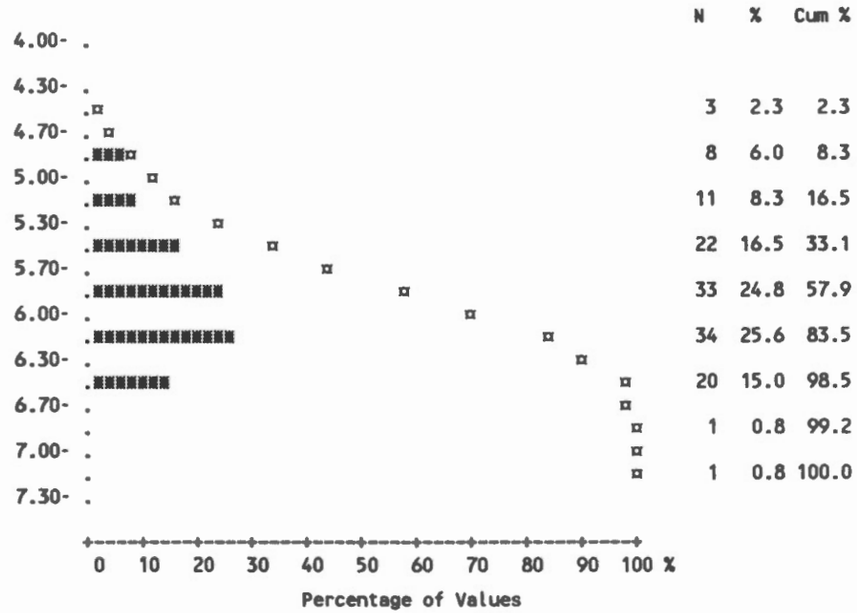


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	105	8	22	39	5	1	14	7	9
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	5.91	7.55	4.85	7.68	8.40	2.80	3.53	4.86	4.50
Standard Deviation	8.16	9.80	4.03	11.90	4.56	4.02	2.57	1.86	3.92
Skewness	4.44	1.58	1.42	3.33	0.75	1.07	0.76	0.18	1.22
Excess Kurtosis	23.67	1.33	1.08	10.89	-1.33	-0.92	-0.80	-1.03	0.37
Coef. of Var. %	137.99	129.90	82.98	154.93	54.29	143.75	72.83	38.39	87.10
Std. Error of the Mean	0.71	2.96	0.77	1.74	2.04	1.80	0.59	0.70	1.13
Lower 95% limit on Mean	4.51	0.96	3.26	4.19	2.74	-2.20	2.29	3.13	2.01
Upper 95% limit on Mean	7.31	14.13	6.44	11.18	14.06	7.80	4.76	6.58	6.99
Geometric Statistics									
Mean	3.72	3.91	3.59	4.36	7.59	1.58	2.70	4.52	3.24
Log10 Mean	0.57	0.59	0.56	0.64	0.88	0.20	0.43	0.65	0.51
Log10 S.D.	0.40	0.52	0.35	0.43	0.21	0.45	0.33	0.19	0.37
Log10 Std. Error of Mean	0.03	0.16	0.067	0.063	0.094	0.20	0.076	0.071	0.11
Lower 95% limit on Mean	3.18	1.75	2.61	3.26	4.16	0.44	1.87	3.03	1.87
Upper 95% limit on Mean	4.36	8.75	4.94	5.83	13.86	5.69	3.92	6.74	5.61
Percentiles									
Min Value	1.00	1.00	1.00	1.00	5.00	1.00	1.00	2.00	1.00
25th %tile	2.00	1.00	3.00	3.00	5.00	1.00	1.00	4.00	1.00
50th %tile	4.00	4.00	4.00	4.00	7.00	1.00	3.00	5.00	3.00
75th %tile	7.00	7.00	5.00	7.00	9.00	1.00	5.00	6.00	5.00
80th %tile	7.00	7.00	6.00	8.00	9.00	1.00	7.00	6.00	6.00
90th %tile	10.00	18.00	13.00	12.00	16.00	10.00	8.00	8.00	10.00
95th %tile	16.00	33.00	14.00	34.00	16.00	10.00	9.00	8.00	14.00
98th %tile	34.00	33.00	16.00	62.00	16.00	10.00	9.00	8.00	14.00
99th %tile	52.00	33.00	16.00	62.00	16.00	10.00	9.00	8.00	14.00
Max Value	62.00	33.00	16.00	62.00	16.00	10.00	9.00	8.00	14.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - pH [pH]
Number of Values - 133
Units -
Detection Limit -
Analytical Method - GCM

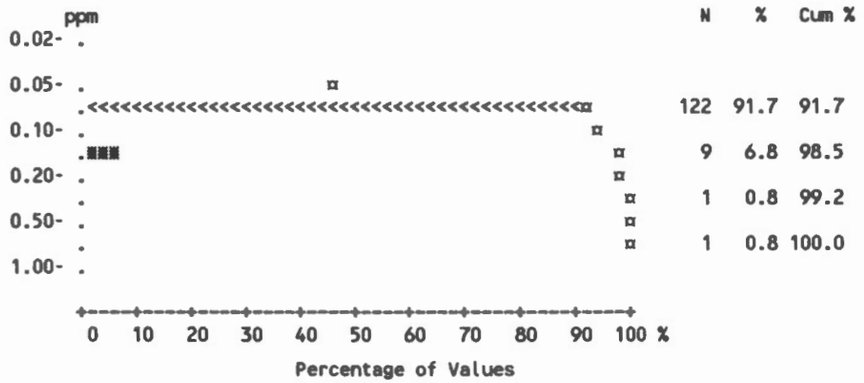


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	133	11	27	47	5	5	19	7	12
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	5.85	5.78	5.90	6.08	6.16	5.44	5.36	5.44	5.90
Standard Deviation	0.52	0.58	0.39	0.41	0.43	0.55	0.61	0.34	0.44
Skewness	-0.57	-0.18	-0.32	-0.42	-0.48	-0.21	-0.11	-0.77	0.25
Excess Kurtosis	0.15	-1.19	-0.80	1.33	-1.62	-1.97	-1.35	-0.93	-1.41
Coef. of Var. %	8.98	10.08	6.60	6.76	6.94	10.03	11.41	6.26	7.51
Std. Error of the Mean	0.05	0.18	0.075	0.060	0.19	0.24	0.14	0.13	0.13
Lower 95% limit on Mean	5.76	5.39	5.75	5.96	5.63	4.76	5.06	5.13	5.62
Upper 95% limit on Mean	5.94	6.17	6.06	6.20	6.69	6.12	5.65	5.76	6.18
Geometric Statistics									
Mean	5.82	5.75	5.89	6.06	6.15	5.42	5.32	5.43	5.88
Log10 Mean	0.76	0.76	0.77	0.78	0.79	0.73	0.73	0.74	0.77
Log10 S.D.	0.04	0.045	0.029	0.030	0.031	0.044	0.050	0.028	0.032
Log10 Std. Error of Mean	0.00	0.013	0	0	0.014	0.020	0.012	0.011	0
Lower 95% limit on Mean	5.73	5.37	5.74	5.94	5.63	4.77	5.04	5.12	5.61
Upper 95% limit on Mean	5.91	6.17	6.05	6.19	6.72	6.15	5.63	5.77	6.17
Percentiles									
Min Value	4.40	4.70	5.10	4.90	5.50	4.70	4.40	4.80	5.30
25th %tile	5.50	5.30	5.60	5.90	6.00	5.10	4.80	5.20	5.50
50th %tile	5.90	5.70	6.00	6.20	6.30	5.50	5.40	5.50	5.70
75th %tile	6.20	6.30	6.20	6.40	6.40	5.90	5.80	5.70	6.10
80th %tile	6.30	6.30	6.20	6.40	6.40	5.90	5.90	5.70	6.30
90th %tile	6.40	6.50	6.40	6.40	6.60	6.00	6.20	5.80	6.40
95th %tile	6.50	6.60	6.50	6.50	6.60	6.00	6.40	5.80	6.70
98th %tile	6.60	6.60	6.60	7.30	6.60	6.00	6.40	5.80	6.70
99th %tile	6.70	6.60	6.60	7.30	6.60	6.00	6.40	5.80	6.70
Max Value	7.30	6.60	6.60	7.30	6.60	6.00	6.40	5.80	6.70

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Silver [Ag]
Number of Values - 133
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

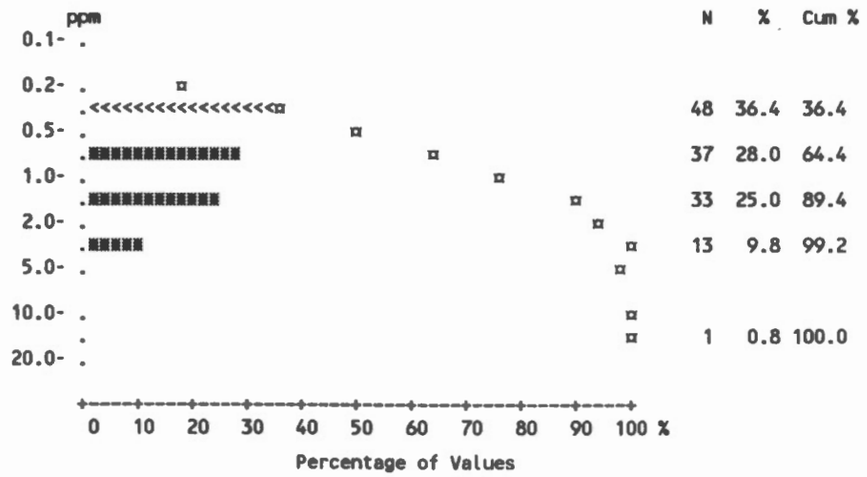


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	ANgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	2	0	1	1	0	0	0	0	0
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	0.11	-	0.12	0.11	-	-	-	-	-
Standard Deviation	0.05	-	0.096	0.044	-	-	-	-	-
Skewness	8.57	-	4.63	6.42	-	-	-	-	-
Excess Kurtosis	75.14	-	20.22	40.13	-	-	-	-	-
Coef. of Var. %	47.53	-	81.19	41.13	-	-	-	-	-
Std. Error of the Mean	0.00	-	0.019	0	-	-	-	-	-
Lower 95% limit on Mean	0.10	-	0.080	0.094	-	-	-	-	-
Upper 95% limit on Mean	0.11	-	0.16	0.12	-	-	-	-	-
Geometric Statistics									
Mean	0.10	-	0.11	0.10	-	-	-	-	-
Log10 Mean	-0.99	-	-0.97	-0.99	-	-	-	-	-
Log10 S.D.	0.08	-	0.15	0.088	-	-	-	-	-
Log10 Std. Error of Mean	0.01	-	0.029	0.013	-	-	-	-	-
Lower 95% limit on Mean	0.10	-	0.093	0.097	-	-	-	-	-
Upper 95% limit on Mean	0.11	-	0.12	0.11	-	-	-	-	-
Percentiles									
Min Value	0.10	-	0.10	0.10	-	-	-	-	-
25th %tile	0.10	-	0.10	0.10	-	-	-	-	-
50th %tile	0.10	-	0.10	0.10	-	-	-	-	-
75th %tile	0.10	-	0.10	0.10	-	-	-	-	-
80th %tile	0.10	-	0.10	0.10	-	-	-	-	-
90th %tile	0.10	-	0.10	0.20	-	-	-	-	-
95th %tile	0.20	-	0.10	0.20	-	-	-	-	-
98th %tile	0.20	-	0.60	0.40	-	-	-	-	-
99th %tile	0.40	-	0.60	0.40	-	-	-	-	-
Max Value	0.60	-	0.60	0.40	-	-	-	-	-

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Tin [Sn]
Number of Values - 132
Units - ppm
Detection Limit - 1
Analytical Method - AAS

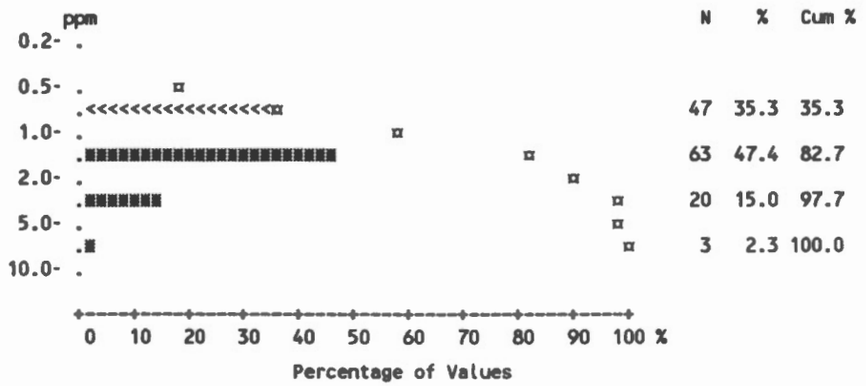


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	132	11	26	47	5	5	19	7	12
Number of Values > D.L.	84	7	17	31	4	5	8	5	7
Number of Missing Values	1	0	1	0	0	0	0	0	0
Mean	1.39	2.45	1.37	1.38	1.50	1.80	0.92	1.14	1.13
Standard Deviation	1.47	4.22	1.00	0.95	1.00	0.84	0.61	0.63	0.68
Skewness	6.14	2.35	1.03	0.86	0.45	0.25	0.99	0.42	0.39
Excess Kurtosis	52.97	4.15	-0.040	-0.35	-1.75	-1.82	-0.76	-1.68	-1.78
Coef. of Var. %	106.07	171.75	72.91	68.35	66.67	46.48	65.90	54.84	60.30
Std. Error of the Mean	0.13	1.27	0.20	0.14	0.45	0.37	0.14	0.24	0.20
Lower 95% limit on Mean	1.13	-0.38	0.96	1.11	0.26	0.76	0.63	0.56	0.69
Upper 95% limit on Mean	1.64	5.29	1.77	1.66	2.74	2.84	1.21	1.72	1.56
Geometric Statistics									
Mean	1.06	1.28	1.08	1.10	1.25	1.64	0.77	1.00	0.94
Log10 Mean	0.02	0.11	0.032	0.042	0.095	0.22	-0.11	0	-0.025
Log10 S.D.	0.30	0.45	0.30	0.30	0.30	0.21	0.25	0.25	0.27
Log10 Std. Error of Mean	0.03	0.13	0.059	0.044	0.13	0.094	0.057	0.093	0.078
Lower 95% limit on Mean	0.94	0.64	0.81	0.90	0.53	0.90	0.59	0.59	0.63
Upper 95% limit on Mean	1.19	2.55	1.43	1.35	2.95	2.99	1.02	1.69	1.40
Percentiles									
Min Value	0.50	0.50	0.50	0.50	0.50	1.00	0.50	0.50	0.50
25th %tile	0.50	0.50	0.50	0.50	1.00	1.00	0.50	0.50	0.50
50th %tile	1.00	1.00	1.00	1.00	1.00	2.00	0.50	1.00	1.00
75th %tile	2.00	2.00	2.00	2.00	2.00	2.00	1.00	2.00	2.00
80th %tile	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
90th %tile	3.00	2.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00
95th %tile	3.00	15.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00
98th %tile	4.00	15.00	4.00	4.00	3.00	3.00	2.00	2.00	2.00
99th %tile	4.00	15.00	4.00	4.00	3.00	3.00	2.00	2.00	2.00
Max Value	15.00	15.00	4.00	4.00	3.00	3.00	2.00	2.00	2.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Tungsten [W]
Number of Values - 133
Units - ppm
Detection Limit - 2
Analytical Method - COL

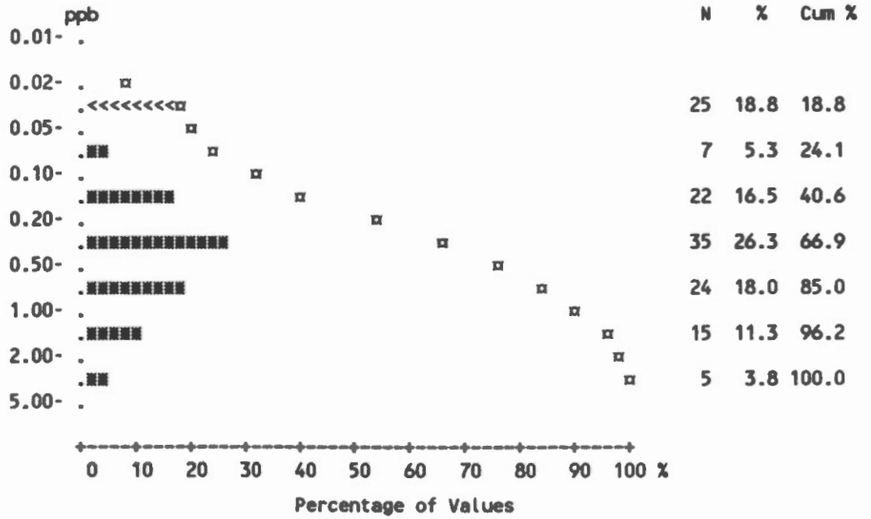


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	86	7	19	36	1	4	9	4	6
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	2.07	1.64	2.30	2.15	1.60	1.80	2.21	1.86	1.83
Standard Deviation	1.30	0.50	1.44	1.00	1.34	0.45	2.18	1.07	1.11
Skewness	2.43	-0.49	1.30	0.86	1.07	-1.07	2.41	0.93	1.02
Excess Kurtosis	9.65	-1.91	0.77	-0.34	-0.92	-0.92	5.78	-0.52	-0.46
Coef. of Var. %	62.78	30.83	62.54	46.51	83.85	24.85	98.40	57.56	60.80
Std. Error of the Mean	0.11	0.15	0.28	0.15	0.60	0.20	0.50	0.40	0.32
Lower 95% limit on Mean	1.85	1.30	1.73	1.86	-0.066	1.24	1.16	0.87	1.13
Upper 95% limit on Mean	2.29	1.98	2.86	2.44	3.27	2.36	3.26	2.85	2.54
Geometric Statistics									
Mean	1.79	1.55	1.96	1.94	1.32	1.74	1.69	1.64	1.59
Log10 Mean	0.25	0.19	0.29	0.29	0.12	0.24	0.23	0.22	0.20
Log10 S.D.	0.23	0.15	0.24	0.20	0.27	0.13	0.29	0.23	0.23
Log10 Std. Error of Mean	0.02	0.046	0.047	0.029	0.12	0.060	0.068	0.086	0.068
Lower 95% limit on Mean	1.64	1.23	1.57	1.70	0.61	1.18	1.22	1.01	1.13
Upper 95% limit on Mean	1.95	1.97	2.44	2.22	2.85	2.56	2.34	2.66	2.24
Percentiles									
Min Value	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25th %tile	1.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00
50th %tile	2.00	2.00	2.00	2.00	1.00	2.00	1.00	2.00	1.00
75th %tile	2.00	2.00	2.00	2.00	1.00	2.00	2.00	2.00	2.00
80th %tile	2.00	2.00	4.00	2.00	1.00	2.00	4.00	2.00	2.00
90th %tile	4.00	2.00	4.00	4.00	4.00	2.00	4.00	4.00	4.00
95th %tile	4.00	2.00	6.00	4.00	4.00	2.00	10.00	4.00	4.00
98th %tile	6.00	2.00	6.00	4.00	4.00	2.00	10.00	4.00	4.00
99th %tile	6.00	2.00	6.00	4.00	4.00	2.00	10.00	4.00	4.00
Max Value	10.00	2.00	6.00	4.00	4.00	2.00	10.00	4.00	4.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Uranium in Water [U-W]
Number of Values - 133
Units - ppb
Detection Limit - 0.05
Analytical Method - LIF

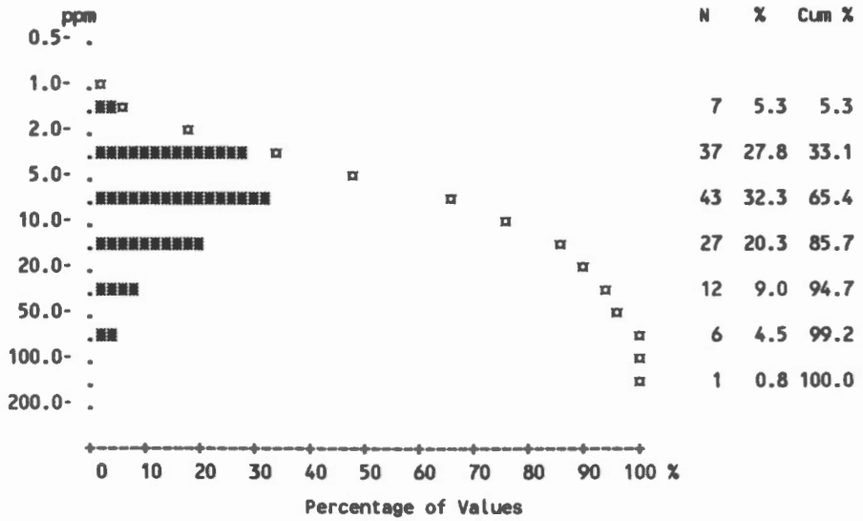


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	108	7	19	44	5	3	14	5	11
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	0.52	0.23	0.31	0.62	0.41	0.18	0.30	0.16	1.62
Standard Deviation	0.68	0.21	0.36	0.56	0.34	0.18	0.46	0.18	1.30
Skewness	3.06	0.40	2.23	1.54	0.60	0.43	2.27	1.27	1.25
Excess Kurtosis	13.88	-1.55	6.23	2.47	-1.55	-1.66	4.43	0.11	1.15
Coef. of Var. %	130.86	93.19	115.64	91.18	81.39	96.52	153.57	113.63	80.40
Std. Error of the Mean	0.06	0.064	0.070	0.082	0.15	0.079	0.10	0.067	0.38
Lower 95% limit on Mean	0.40	0.086	0.17	0.45	-0	-0.036	0.077	-0	0.79
Upper 95% limit on Mean	0.64	0.37	0.46	0.78	0.83	0.40	0.52	0.32	2.44
Geometric Statistics									
Mean	0.24	0.12	0.16	0.39	0.32	0.10	0.13	0.095	1.01
Log10 Mean	-0.62	-0.92	-0.81	-0.41	-0.50	-0.99	-0.88	-1.02	0
Log10 S.D.	0.60	0.59	0.59	0.48	0.36	0.58	0.57	0.48	0.59
Log10 Std. Error of Mean	0.05	0.18	0.11	0.070	0.16	0.26	0.13	0.18	0.17
Lower 95% limit on Mean	0.19	0.048	0.091	0.28	0.11	0.020	0.071	0.034	0.43
Upper 95% limit on Mean	0.30	0.30	0.27	0.54	0.88	0.54	0.25	0.26	2.40
Percentiles									
Min Value	0.03	0.025	0.025	0.025	0.14	0.025	0.025	0.025	0.025
25th %tile	0.11	0.025	0.025	0.23	0.15	0.025	0.025	0.025	0.94
50th %tile	0.30	0.19	0.21	0.42	0.31	0.18	0.16	0.12	1.32
75th %tile	0.63	0.46	0.48	0.90	0.52	0.23	0.25	0.18	1.76
80th %tile	0.90	0.46	0.55	1.00	0.52	0.23	0.39	0.18	2.08
90th %tile	1.25	0.48	0.65	1.25	0.95	0.45	1.14	0.54	2.77
95th %tile	1.76	0.60	0.66	1.63	0.95	0.45	1.83	0.54	5.00
98th %tile	2.62	0.60	1.75	2.62	0.95	0.45	1.83	0.54	5.00
99th %tile	2.77	0.60	1.75	2.62	0.95	0.45	1.83	0.54	5.00
Max Value	5.00	0.60	1.75	2.62	0.95	0.45	1.83	0.54	5.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Uranium [U]
Number of Values - 133
Units - ppm
Detection Limit - 0.5
Analytical Method - NADNC

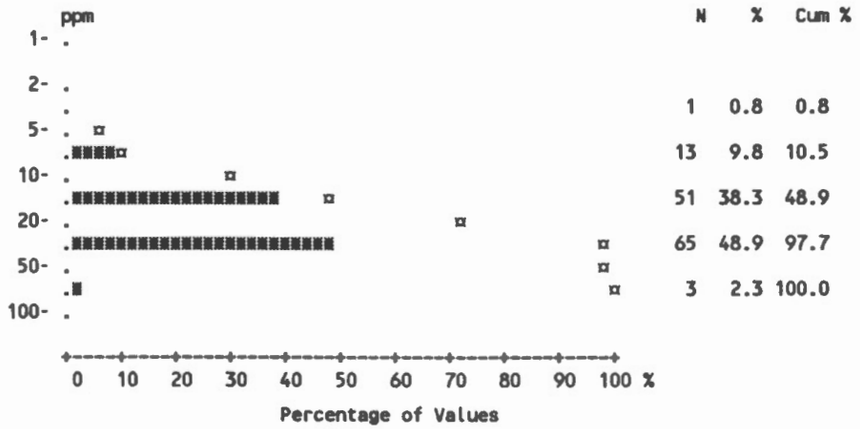


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	133	11	27	47	5	5	19	7	12
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	12.96	6.49	13.69	17.37	13.36	8.50	4.52	4.80	19.79
Standard Deviation	17.81	5.75	25.64	17.07	9.98	7.96	3.54	2.55	23.82
Skewness	3.61	1.38	3.51	1.96	0.53	0.92	2.03	0.043	2.05
Excess Kurtosis	15.84	0.88	12.15	3.30	-1.70	-1.11	3.90	-1.80	3.35
Coef. of Var. %	137.40	88.58	187.28	98.28	74.69	93.63	78.38	53.07	120.36
Std. Error of the Mean	1.54	1.73	4.93	2.49	4.46	3.56	0.81	0.96	6.88
Lower 95% limit on Mean	9.91	2.63	3.54	12.36	0.97	-1.38	2.81	2.44	4.66
Upper 95% limit on Mean	16.01	10.35	23.83	22.38	25.75	18.38	6.22	7.16	34.93
Geometric Statistics									
Mean	7.88	4.85	7.16	12.24	10.68	6.37	3.69	4.13	12.69
Log10 Mean	0.90	0.69	0.85	1.09	1.03	0.80	0.57	0.62	1.10
Log10 S.D.	0.40	0.34	0.42	0.35	0.33	0.35	0.27	0.27	0.41
Log10 Std. Error of Mean	0.03	0.10	0.081	0.051	0.15	0.16	0.061	0.10	0.12
Lower 95% limit on Mean	6.72	2.88	4.88	9.64	4.21	2.33	2.74	2.30	7.00
Upper 95% limit on Mean	9.24	8.17	10.49	15.54	27.08	17.42	4.96	7.40	23.03
Percentiles									
Min Value	1.40	1.90	1.40	2.80	4.50	3.10	1.50	1.60	3.00
25th %tile	4.10	2.20	3.30	6.30	6.60	3.10	2.50	2.00	5.30
50th %tile	7.00	4.10	6.80	11.20	9.10	6.80	3.40	4.40	10.60
75th %tile	15.20	8.50	9.80	18.70	17.90	7.20	5.40	7.50	17.90
80th %tile	16.80	8.50	15.20	24.70	17.90	7.20	6.00	7.50	27.00
90th %tile	26.60	12.00	18.10	46.60	28.70	22.30	10.10	8.20	31.80
95th %tile	51.70	21.00	62.70	62.80	28.70	22.30	16.30	8.20	90.00
98th %tile	78.30	21.00	128.00	78.30	28.70	22.30	16.30	8.20	90.00
99th %tile	90.00	21.00	128.00	78.30	28.70	22.30	16.30	8.20	90.00
Max Value	128.00	21.00	128.00	78.30	28.70	22.30	16.30	8.20	90.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Vanadium [V]
Number of Values - 133
Units - ppm
Detection Limit - 5
Analytical Method - AAS

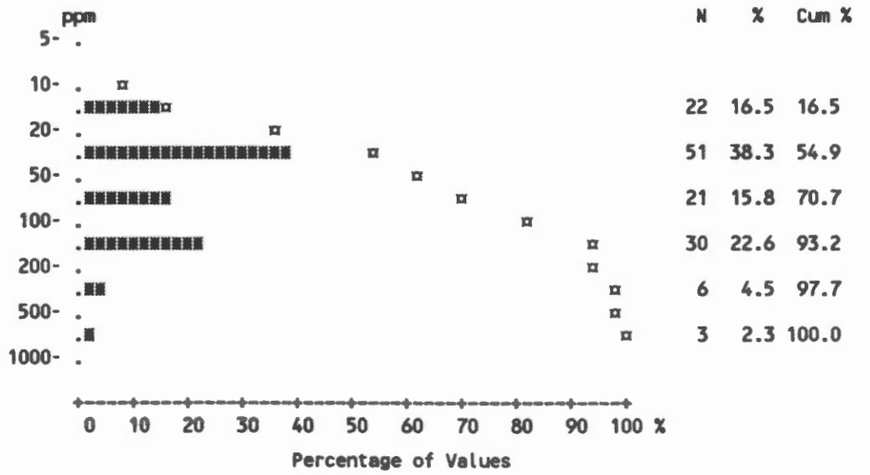


	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	132	11	27	47	5	5	19	6	12
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	22.30	22.73	26.89	22.21	21.60	26.00	19.74	16.07	18.42
Standard Deviation	11.02	9.93	14.44	9.70	6.80	5.96	11.89	9.44	7.84
Skewness	1.69	0.65	2.18	1.04	0.033	-0.77	0.90	-0.043	0.89
Excess Kurtosis	5.84	-0.54	5.69	1.29	-2.16	-1.27	-0.29	-1.73	-0.52
Coef. of Var. %	49.42	43.69	53.72	43.67	31.50	22.92	60.23	58.71	42.60
Std. Error of the Mean	0.96	2.99	2.78	1.41	3.04	2.66	2.73	3.57	2.26
Lower 95% limit on Mean	20.41	16.06	21.17	19.36	13.15	18.60	14.01	7.34	13.43
Upper 95% limit on Mean	24.20	29.40	32.60	25.06	30.05	33.40	25.47	24.80	23.40
Geometric Statistics									
Mean	19.91	20.85	24.20	20.33	20.72	25.34	16.77	12.77	17.11
Log10 Mean	1.30	1.32	1.38	1.31	1.32	1.40	1.22	1.11	1.23
Log10 S.D.	0.21	0.19	0.20	0.19	0.14	0.12	0.25	0.37	0.17
Log10 Std. Error of Mean	0.02	0.058	0.038	0.027	0.063	0.052	0.058	0.14	0.049
Lower 95% limit on Mean	18.29	15.50	20.23	17.93	13.83	18.19	12.66	5.86	13.37
Upper 95% limit on Mean	21.66	28.03	28.96	23.05	31.05	35.30	22.23	27.82	21.91
Percentiles									
Min Value	2.50	10.00	10.00	9.00	14.00	16.00	7.00	2.50	11.00
25th %tile	14.00	14.00	19.00	16.00	16.00	26.00	11.00	9.00	13.00
50th %tile	21.00	21.00	25.00	20.00	21.00	27.00	15.00	16.00	14.00
75th %tile	27.00	29.00	29.00	27.00	28.00	30.00	27.00	23.00	24.00
80th %tile	29.00	29.00	31.00	28.00	28.00	30.00	30.00	23.00	25.00
90th %tile	36.00	33.00	37.00	36.00	29.00	31.00	42.00	29.00	27.00
95th %tile	38.00	44.00	56.00	38.00	29.00	31.00	48.00	29.00	36.00
98th %tile	56.00	44.00	82.00	56.00	29.00	31.00	48.00	29.00	36.00
99th %tile	56.00	44.00	82.00	56.00	29.00	31.00	48.00	29.00	36.00
Max Value	82.00	44.00	82.00	56.00	29.00	31.00	48.00	29.00	36.00

* Summary statistics not calculated for rock units with less than 5 values.

Statistics per Variable

Variable - Zinc [Zn]
Number of Values - 133
Units - ppm
Detection Limit - 2
Analytical Method - AAS



	All Units*	AAb	AAsv	AAvf	AAvm	ABmg	Agn	AHgn	AMHg
Number of Values	133	11	27	47	5	5	19	7	12
Number of Values > D.L.	133	11	27	47	5	5	19	7	12
Number of Missing Values	0	0	0	0	0	0	0	0	0
Mean	82.11	50.64	45.70	143.77	120.40	51.60	33.47	29.00	56.17
Standard Deviation	98.88	38.73	31.73	137.28	81.95	40.02	38.83	13.59	31.41
Skewness	2.95	0.97	1.59	1.76	0.075	0.32	3.04	0.32	0.39
Excess Kurtosis	10.12	-0.61	1.40	2.53	-2.01	-1.93	8.93	-1.64	-1.31
Coef. of Var. %	120.42	76.48	69.43	95.49	68.06	77.55	115.99	46.86	55.92
Std. Error of the Mean	8.57	11.68	6.11	20.02	36.65	17.90	8.91	5.14	9.07
Lower 95% limit on Mean	65.15	24.62	33.15	103.45	18.66	1.92	14.76	16.43	36.21
Upper 95% limit on Mean	99.07	76.65	58.26	184.08	222.14	101.28	52.19	41.57	76.12
Geometric Statistics									
Mean	51.83	39.84	38.47	96.51	92.13	38.80	24.92	26.27	47.55
Log10 Mean	1.71	1.60	1.59	1.98	1.96	1.59	1.40	1.42	1.68
Log10 S.D.	0.40	0.31	0.24	0.41	0.40	0.38	0.29	0.21	0.28
Log10 Std. Error of Mean	0.03	0.093	0.047	0.059	0.18	0.17	0.067	0.080	0.080
Lower 95% limit on Mean	44.29	24.67	30.81	73.33	29.75	13.03	18.00	16.74	31.71
Upper 95% limit on Mean	60.66	64.35	48.04	127.03	285.32	115.54	34.51	41.24	71.31
Percentiles									
Min Value	11.00	16.00	17.00	12.00	23.00	15.00	11.00	14.00	15.00
25th %tile	23.00	19.00	23.00	51.00	65.00	17.00	16.00	15.00	36.00
50th %tile	43.00	38.00	35.00	116.00	110.00	42.00	20.00	29.00	45.00
75th %tile	108.00	72.00	48.00	168.00	181.00	76.00	33.00	43.00	75.00
80th %tile	121.00	72.00	51.00	175.00	181.00	76.00	38.00	43.00	88.00
90th %tile	175.00	111.00	103.00	365.00	223.00	108.00	58.00	50.00	104.00
95th %tile	233.00	131.00	130.00	512.00	223.00	108.00	184.00	50.00	109.00
98th %tile	512.00	131.00	130.00	571.00	223.00	108.00	184.00	50.00	109.00
99th %tile	563.00	131.00	130.00	571.00	223.00	108.00	184.00	50.00	109.00
Max Value	571.00	131.00	130.00	571.00	223.00	108.00	184.00	50.00	109.00

* Summary statistics not calculated for rock units with less than 5 values.

MINERAL OCCURRENCE SYMBOLS

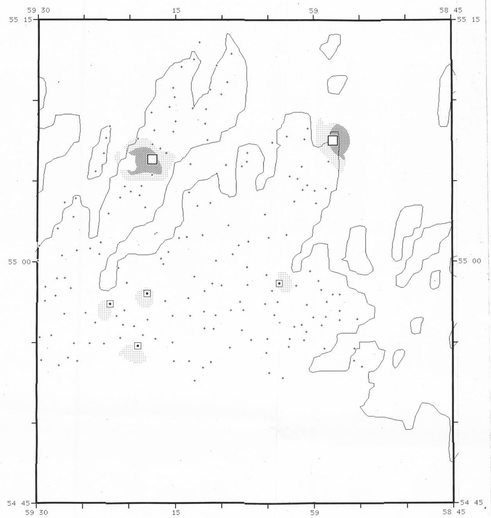
Commodity Abbreviations:				Mineral Abbreviations:					
Cu	Copper	Ni	Nickel	amz	amazonite	gn	galena	py	pyrite
Fsp	Fluorspar	Pyr	Pyrite	asp	arsenopyrite	hem	hematite	po	pyrrhotite
Gem	Gemstone	Po	Pyrrhotite	bo	bornite	mag	magnetite	sp	sphalerite
Au	Gold	Ag	Silver	cp	chalcopyrite	mo	molybdenite	ur	uraninite
Pb	Lead	U	Uranium	fl	fluorite	ptbl	pitchblende		
Mo	Molybdenum	Zn	Zinc						

Status:

1 - Producer ..... ☢
2 - Developed Prospect ..... ⊗
3 - Past Producer - dormant ..... ⚒
4 - Past Producer - exhausted ..... ⚒
5 - Prospect ..... ○
6 - Showing ..... ×
7 - Indication ..... ·

13J/14/Fsp001	Cross Lake South	7	fl
Mo001	Monkey Hill Showings	6	mo, fl, cp
Mo002	North Falls Lake	7	mo
Pb001	Oxbow Lake	7	Pb
Pyr001	Present Lake South	7	py, po
U001	Kitts Prospect	2	ptbl
U002	Kitts 'C' Zone	5	ptbl
U003	Kitts South Showing	6	ptbl
U004	Present Lake Showing	6	ptbl, mo
U005	West Draper Lake	7	(U)
U006	Nyman's Showing (Frenesteak Lake)	6	(U)
U007	Squirrel Lake	7	(U)
U008	Showing No. 1/Sn. 2 (Pitch Lake)	6	ptbl
U009	West Shoal Lake No. 1	7	(U)
U010	West Shoal Lake No. 2	7	(U)
U011	Showing No. 4 (Shoal Lake)	7	(U)
U012	Showing No. 19 (Falls Lake)	7	(U)
U013	Showing No. 13 (Shoal Lake)	7	(U)
U014	Showing No. 15 (Shoal Lake)	7	(U)
U015	Showing No. 24 (Falls Lake)	6	(U)
U016	Showing No. 16 (Falls Lake)	6	ptbl, fl, py, cp
U017	Showing No. 17 (Falls Lake)	6	ptbl
U018	Showing No. 18 (Falls Lake)	7	(U)
U019	Showing No. 14 (Falls Lake)	7	(U)
U020	Showing No. 3 (Marsha Lake)	7	(U)
U021	Showing No. 9 (Marsha Lake)	7	(U)
U022	Showing No. 7 (Winter Lake)	6	ptbl
U023	Showing No. 11 (Winter Lake)	7	ptbl, (Cu, Zn, Ag)
U024	Showing No. 6 (Winter Lake)	7	(U)
U025	Showings No. 12 & No. 21 (Winter Lake)	7	(U)
U026	Showing No. 5 (Bernard Lake)	6	ptbl
U027	Showing No. No. 22 (Bernard Lake)	7	(U)
U028	Showing No. 20 (Bernard Lake)	7	(U)
U029	Showing No. 10 (Marsha Lake)	7	(U)
U030	Bernard Lake New Showing No. 1	7	(U)
U031	South Bernard Lake	7	(U)
U032	West Winter Lake	7	(U)
U033	North Adlavik Brook No. 1	7	(U)
U034	North Adlavik Brook No. 2	7	(U)
13J/15/Cu001	Manak Bay	7	cp
Cu002	Steg Bay No. 1	7	cp, gn, fl, py
Fsp001	Big River No. 1	7	fl, gn
Gem001	Long Tickle, Adlavik Islands	7	ama
Mo001	Big River No. 2	7	mo
Pb001	Porcupine Point	6	gn, asp
Pyr001	Steg Bay No. 2	7	py
13O/02/Cu001	Jerry's Cove	7	cp
Cu002	Pomiadluk Point No. 1	7	cp
Cu003	Pomiadluk Point No. 2	7	cp
Cu004	Manak Bay No. 1	7	Cu
Fsp001	October Harbour No. 1	7	fl
Mo001	October Harbour No. 2	7	mo, gn, cp, py
Pb001	Big Bight Vein No. 1	6	gn, fl, cp
Pb002	Big Bight Vein No. 2	6	gn, fl, cp
Pb003	Big Bight Vein No. 3	6	gn, py, fl
Pb004	Big Bight Vein No. 4	6	gn, py, cp
Po001	Manak Island North	7	po
Pyr001	Strawberry Island No. 1	7	py, po
Pyr002	Manak Bay No. 2	7	py
U001	Strawberry Island No. 2	7	(U)
U002	Belle Island	7	(U)
U003	Kidlialuit Island No. 1	7	(U)
U004	Kidlialuit Island No. 2	7	(U)
13O/03/Cu001	Douglas Showing (Kaipokok Bay)	6	cp, py, po
Cu002	Bent's Cove Showing	7	Cu
Cu003	Poodle Pond No. 1 Showing	6	py, cp, po, (Ni, Ag, Au)
Cu004	John Michelin No. 17 (Round Pond Grid)	7	py, cp
Cu005	BC-29 Showing (Round Pond Grid)	7	cp, mo, fl
Cu006	BC-28 Showing (Round Pond Grid)	6	cp, mo, py
Cu007	Round Pond Grid No. 2	7	cp
Fsp001	East Ford's Right No. 3	7	fl
Fsp002	East Ford's Right No. 6	7	fl
Fsp003	John Michelin No. 22 (Round Pond Grid)	7	fl, (mo, cp)
Fsp004	North Monkey Hill No. No. 6 Showing	7	fl
Mo001	Duck Island	6	mo, py
Mo002	Anax Showing	6	mo, fl, py
Mo003	Ailik Prospect	7	mo, (U), cp, fl
Mo004	Samuel's Point (Makkovik Bay)	7	mo, py, gn, cp
Mo005	Retreat Lake No. 1 Showing	7	mo, fl, py
Mo006	Retreat Lake No. 4	7	mo, py
Mo007	Island Lake No. 1 Showing	6	mo, py
Mo008	West Ford's Right No. 1	7	mo
Mo009	West Ford's Right No. 2	7	mo
Mo010	West Ford's Right No. 3	7	mo
Mo011	West Ford's Right No. 4	7	mo
Mo012	West Ford's Right No. 5	7	mo
Mo013	West Ford's Right No. 6	7	mo
Mo014	West Ford's Right No. 7	7	mo
Mo015	West Ford's Right No. 8	7	mo
Mo016	West Ford's Right No. 9	7	mo
Mo017	West Ford's Right No. 10	7	mo
Mo018	West Ford's Right No. 11	7	mo
Mo019	West Ford's Right No. 12	7	mo
Mo020	Leslie Michelin No. 13 Showing	6	mo, py
Mo021	East Ford's Right No. 4	7	mo, (gn, fl, ep)
Mo022	East Ford's Right No. 2	7	mo, (gn, fl, ep)
Mo023	East Ford's Right No. 5	7	mo, (gn, fl, ep)
Mo024	East Ford's Right No. 1	7	mo, (gn, fl, ep)
Mo025	East Ford's Right No. 7	7	mo, (gn, fl, ep)
Mo026	East Ford's Right No. 8	7	mo, (gn, fl, ep)
Mo027	Leslie Michelin No. 13 Showing	6	mo
Mo028	East Ford's Right No. 9	7	mo, (gn, fl, ep)
Mo029	Vein No. 4 (Round Pond Grid)	6	mo, cp, py
Mo030	Veins No. 5/No. 10 (Round Pond Grid)	6	mo, cp, py
Mo031	Veins No. 3 & No. 9 (Round Pond Grid)	6	mo, cp, py
Mo032	Vein No. 8 (Round Pond Grid)	6	mo, cp, py
Mo033	John Michelin No. 20 (Round Pond Grid)	7	mo, py
Mo034	Round Pond Grid No. 4	7	mo
Mo035	BC-30 Showing (Round Pond Grid)	7	mo
Mo036	Vein No. 1 (Round Pond Grid)	6	mo, cp, py
Mo037	John Michelin No. 8 (Round Pond Grid)	7	mo, cp
Mo038	John Michelin No. 19 (Round Pond Grid)	7	mo
Mo039	Vein No. 7 (Round Pond Grid)	6	mo, cp, py
Mo040	BC-27 Showing (Round Pond Grid)	7	mo, cp, py
Mo041	John Michelin No. 12 Occurrence	7	mo, py
Mo042	Vein No. 11	6	mo, cp
Mo043	Round Pond Grid No. 1	7	mo
Mo044	John Michelin No. 24 (Round Pond Grid)	7	mo
Mo045	John Michelin No. 13 (Round Pond Grid)	7	mo, py
Mo046	John Michelin No. 23 (Round Pond Grid)	7	mo, py
Mo047	Banana Lake No. 6	7	mo
Mo048	North Monkey Hill No. 1 Showing	7	mo, cp, py
Mo049	North Monkey Hill No. 2 Showing	7	mo, cp, py
Mo050	North Monkey Hill No. 3 Showing	7	mo, cp, py
Mo051	North Monkey Hill No. 4 Showing	7	mo, cp, py
Mo052	North Monkey Hill No. 5 Showing	7	mo, cp, py
Mo053	Leslie Michelin No. 15 Showing	7	mo, py
Pb001	Mink Trap Brook	6	gn
Pb002	Poodle Pond No. 2 Showing	7	gn
Pyr001	Kitts Pond No. 1 Showing	7	py
Pyr002	Kitts Pond No. 2 Showing	7	py
Pyr003	Kitts Pond No. 3 Showing	7	py
Pyr004	Mark's Right No. 2 Showing	7	py
Pyr005	Mark's Right No. 1 Showing	7	py
Pyr006	Long Island No. 2 Showing	7	py
Pyr007	Mark's Right No. 3 Showing	7	py, (U)
Pyr008	A-3 Showing	6	py, mo, asp
Pyr009	John Michelin No. 5 (Round Pond Grid)	7	py, mo, cp
Pyr010	John Michelin No. 25 (Round Pond Grid)	7	py, mo, cp
Pyr011	John Michelin No. 21 (Round Pond Grid)	7	py
Pyr012	Kennedys Cove	7	py, (U)
U001	Long Island Sn. 1 Prospect	5	(U)
U002	Long Island Sn. 1 Showing	7	(U)
U003	Cape Makkovik Shore	6	ptbl, ur
U004	Bradley Showing	7	(U)
U005	Shoal Bay No. 2 Showing	6	ptbl, ur
U006	Shoal Bay No. 3 Showing	7	ptbl, ur
U007	Sunset Showing	6	ptbl, ur
U008	Shoal Bay No. 1 Showing	7	ptbl, ur
U009	Banana Lake No. 1 Showing	6	ptbl, ur, mo
U010	Morris No. 4 Showing	6	ptbl
U011	Banana Lake No. 2 Showing	7	ptbl
U012	Black Hat Showing	7	ptbl, ur
U013	Banana Lake No. 3 Showing	7	ptbl, ur
U014	Banana Lake No. 4 Showing	7	ptbl, ur
U015	Morris No. 1 Showing	6	ptbl, ur
U016	Banana Lake No. 5 Showing	7	ptbl, ur
U017	Morris No. 2 Showing	6	ptbl, ur
U018	Sunil Prospect	5	ptbl, ur, mo
U019	A-7 Showing	6	ptbl, ur
U020	Pedro's Hot Seat (Anomaly A-8)	7	(U)
U021	Makkovik Village	7	(U)
U022	Retreat Lake No. 2 Showing	7	(U)
U023	John Michelin Showing	5	ptbl, ur
U024	Retreat Lake No. 3	7	(U)
U025	Island Lake No. 4	7	(U)
U026	Island Lake No. 2 Showing	6	(U)
U027	Island Lake No. 3 Showing	6	(U)
U028	Round Pond Grid No. 3 Showing	6	(U)
U029	Kennedys Cove West	7	(U)

* parentheses indicate that the mineral/commodity is present in minor or trace amounts or indicated by an assay.



GOLD
IN
LAKE SEDIMENTS

PPB	nTILE	PPB	nTILE
10.0	MAX	10.0 -	MAX
2.0	99	2.0 -	99
1.0	96	1.0 -	96
0.5	MIN	0.5 -	MIN

176 SAMPLES | 176 SAMPLES

Geological Survey of Canada
Mineral Resources Division
Exploration Geochemistry Subdivision

CONTRACTORS

Stream sediment and lake sediment sample collection by GSC personnel
Sample preparation by Golder Associates, Ottawa
Sediment chemical analyses by Bondar-Clegg and Company Ltd., Ottawa
Water and Au chemical analysis by Chemex Labs Limited, Vancouver
Geological base prepared by Geological Survey of Canada

Copies of the Open File map material, element trend and symbol plots, listing of field observations, analytical data, descriptions of analytical methods, and digital data on IBM-PC compatible diskette are available by inquiring to:

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DEPARTMENT OF MINES
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

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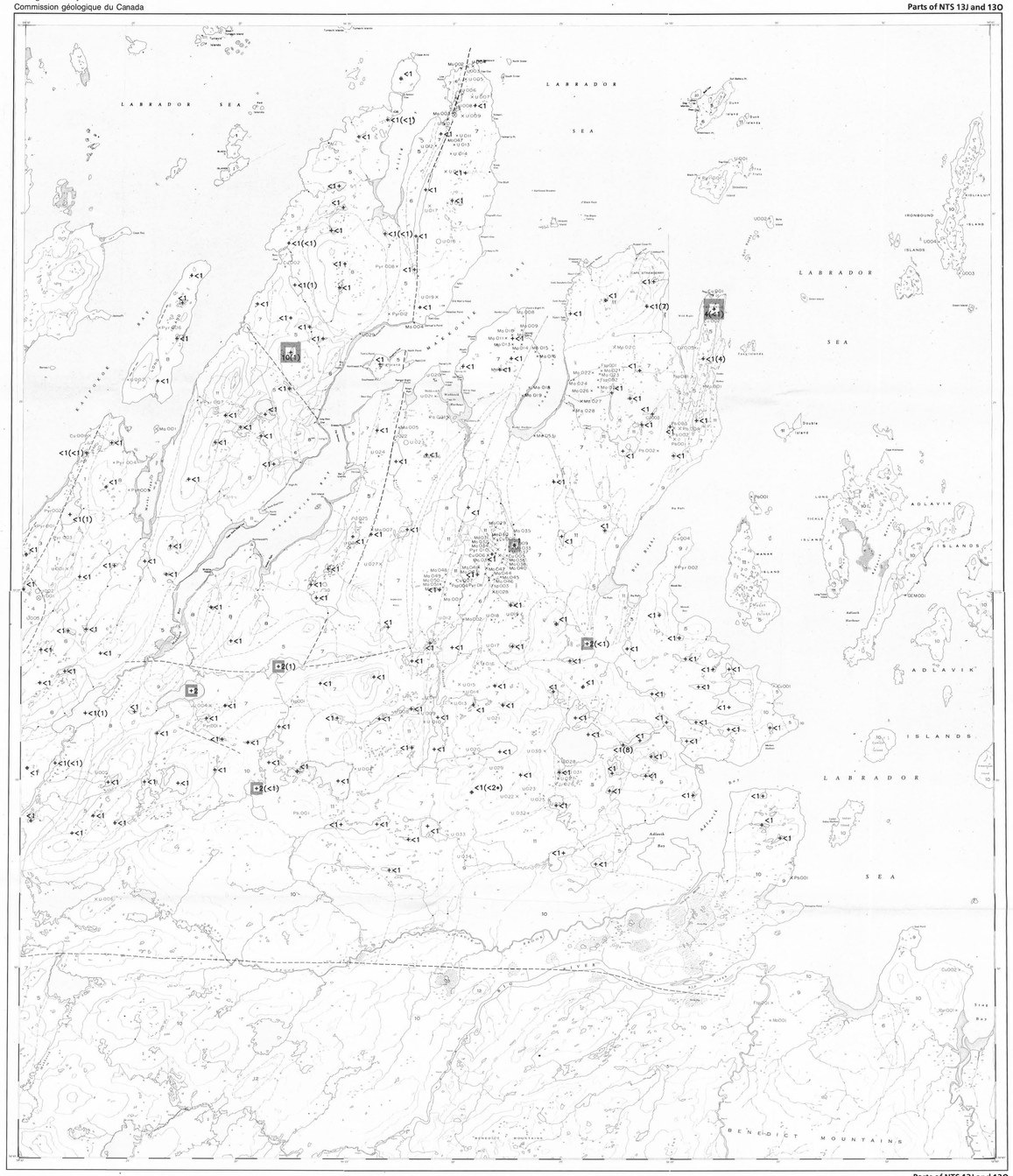
Canada

Geological Survey of Canada
Commission géologique du Canada

Parts of NTS 13J and 13O

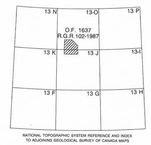


Parts of NTS 13J and 13O

GOLD (ppb)
LAKE SEDIMENTS
GSC OPEN FILE 1637
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 103-87
CANADA – NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT (1984 – 1989)
STREAM AND LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
EASTERN LABRADOR, 1987

Scale 1:100 000 - Échelle 1/100 000

Kilometres 2 0 2 4 6 8 Kilometres



GOLD (ppb)
LAKE SEDIMENTS
GSC OPEN FILE 1637
EASTERN LABRADOR, 1987

LEGEND

QUATERNARY

13 Q 64* Glacial or fluvial surficial deposits.

APHEBIAN

12 AMb 02 MICHAEL GABBRO; pyroxene-olivine gabbro, minor hornblende-biotite gabbro to diorite.

11 AMHg 02 MONKEY HILL, STRAWBERRY and OCTOBER HARBOUR GRANITES; pink to white, medium to coarse leucocratic granites, locally porphyritic, commonly pegmatic.

10 ABmg 02 BENEDICT MOUNTAINS INTRUSIVE SUITE; quartz monzonites, granodiorites, and granites, locally porphyritic.

9 AAb 02 ADLAVIK INTRUSIVE SUITE; pyroxenite, gabbro, leucogabbro with lesser diabase, diorite and leucodiorite.

8 Agn 02 Synkinematic intrusive rocks; foliated to gneissic quartz monzonite, granodiorite and granite.

7 AAvf 02 Felsic volcanic assemblage; rhyolite, ash flow tuffs, ash fall tuffs, volcanic breccia, agglomerate; locally intercalated with volcaniclastic derived metasedimentary rocks; widespread U-Mo mineralization.

6 AAvm 02 Mafic tuff, tuffaceous sandstone, minor basaltic breccia and pillow lava, includes minor diorite to amphibolite.

5 AAsv 02 Metasedimentary assemblage; subaqueous tuffaceous sandstones and siltstones, with intercalated conglomerates, breccias, limestones, ironstones and felsic tuffs; upper portion may be terrestrial in origin.

LOWER AILLIK GROUP

4 AKPv 02 KITTS PILLOW LAVA FORMATION; mafic pillow lava, mafic tuffs and derived amphibolite; includes thin intercalated uraniferous chert, argillite, and tuffaceous sandstone.

3 AAs 02 Dark grey quartzofeldspathic sandstone and siltstone, graphitic and pyritic siltstone, psammitic and semipelitic schist.

2 APHb 02 POST HILL AMPHIBOLITE; Dark green and grey hornblende schist.

ARCHEAN

1 AHgn 01 HOPEDALE GNEISS COMPLEX; Banded dioritic gneisses and migmatites with subordinate amphibolite and mylonite.

*A mnemonic code assigned to rock types and recorded as part of field observations.

Geological boundary .....
Fault .....
No analytical results ..... *
Field duplicate sample sites ..... +

Geology base, mineral occurrences and legend derived from:

Newfoundland Department of Mines and Energy, 1983. Mineral Occurrence Map: Kalpokok Bay - Big River Area, Labrador. Map 83-47. Geology by Bailey and others, revised by Gower and Kerr (1981).

Elevation in feet above mean sea level

Mean magnetic declination 1988, 29° 57' West, decreasing 9.4' annually.

CONCENTRATION		FREQUENCY
3 to 10	+	N= 2(1.1%)
1 to 2	□	N= 5(2.8%)
<1	*	N= 169(96.0%)

MINERAL OCCURRENCE SYMBOLS

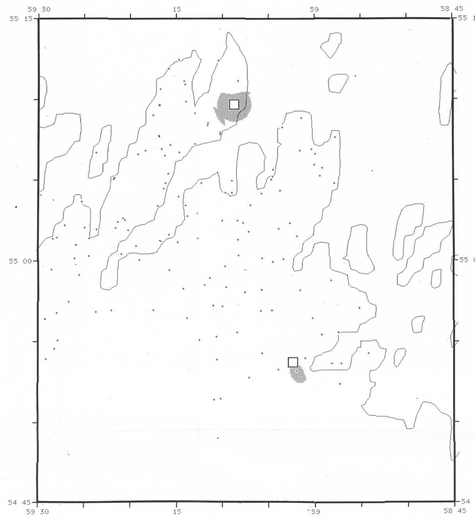
Commodity Abbreviations:				Mineral Abbreviations:					
Cu	Copper	Ni	Nickel	amz	amazonite	gn	galena	py	pyrite
Fsp	Fluorspar	Pyr	Pyrite	asp	arsenopyrite	hem	hematite	po	pyrrhotite
Gem	Gemstone	Po	Pyrrhotite	bo	bornite	mag	magnetite	sp	sphalerite
Au	Gold	Ag	Silver	cp	chalcopyrite	mo	molybdenite	ur	uraninite
Pb	Lead	U	Uranium	fl	fluorite	ptbl	pitchblende		
Mo	Molybdenum	Zn	Zinc						

Status:

1 - Producer ⚒
2 - Developed Prospect ⊗
3 - Past Producer - dormant ⚒
4 - Past Producer - exhausted ⚒
5 - Prospect ○
6 - Showing ×
7 - Indication : ×

13J/14/Fsp001	Cross Lake South	7	fl
Mo001	Monkey Hill Showings	6	mo, fl, cp
Mo002	North Falls Lake	7	mo
Pb001	Oxbow Lake	7	Pb
Pyr001	Present Lake South	7	py, po
U001	Kitts Prospect	2	ptbl
U002	Kitts "C" Zone	5	ptbl
U003	Kitts South Showing	6	ptbl, mo
U004	Present Lake Showing	5	ptbl, mo
U005	West Draper Lake	7	(U)
U006	Hyman's Showing (Freensteak Lake)	6	(U)
U007	Squirrel Lake	7	(U)
U008	Showing No. 1, No. 2 (Pitch Lake)	6	ptbl
U009	Showing No. 3 (Pitch Lake) No.	7	(U)
U010	West Shoal Lake No. 2	7	(U)
U011	Showing No. 4 (Shoal Lake)	7	(U)
U012	Showing No. 19 (Falls Lake)	7	(U)
U013	Showing No. 13 (Shoal Lake)	7	(U)
U014	Showing No. 15 (Shoal Lake)	7	(U)
U015	Showing No. 24 (Falls Lake)	6	(U)
U016	Showing No. 16 (Falls Lake)	6	ptbl, fl, py, cp
U017	Showing No. 17 (Falls Lake)	6	ptbl
U018	Showing No. 18 (Falls Lake)	7	(U)
U019	Showing No. 14 (Falls Lake)	7	(U)
U020	Showing No. 3 (Marsha Lake)	7	(U)
U021	Showing No. 9 (Marsha Lake)	7	(U)
U022	Showing No. 7 (Winter Lake)	7	ptbl
U023	Showing No. 11 (Winter Lake)	7	ptbl, (Cu, Zn, Ag)
U024	Showing No. 6 (Winter Lake)	7	(U)
U025	Showings No. 12 & No. 21 (Winter Lake)	7	(U)
U026	Showing No. 5 (Bernard Lake)	6	ptbl
U027	Showing No. No. 22 (Bernard Lake)	7	(U)
U028	Showing No. 20 (Bernard Lake)	7	(U)
U029	Showing No. 10 (Marsha Lake)	7	(U)
U030	Bernard Lake New Showing No. 1	7	(U)
U031	South Bernard Lake	7	(U)
U032	West Winter Lake	7	(U)
U033	North Adlavik Brook No. 1	7	(U)
U034	North Adlavik Brook No. 2	7	(U)
13J/15/Gu001	Manak Bay	7	cp
Gu002	Stag Bay No. 1	7	cp, gn, fl, py
Fsp001	Big River No. 1	7	fl, gn
Gem001	Long Tickle, Adlavik Islands	7	amz
Mo001	Big River No. 2	7	mo
Pb001	Porcupine Point	6	gn, asp
Pyr001	Stag Bay No. 2	7	py
13O/02/Gu001	Jerry's Cove	7	cp
Cu002	Pomiadluk Point No. 1	7	cp
Cu003	Pomiadluk Point No. 2	7	cp
Cu004	Manak Bay No. 1	7	Cu
Fsp001	October Harbour No. 1	7	fl
Mo001	October Harbour No. 2	7	mo, gn, cp, py
Pb001	Big Bight Vein No. 1	6	gn, fl, cp
Pb002	Big Bight Vein No. 2	6	gn, fl, cp
Pb003	Big Bight Vein No. 3	6	gn, py, fl
Pb004	Big Bight Vein No. 4	6	gn, py, cp
Pb005	Manak Island North	7	po
Pyr001	Strawberry Island No. 1	7	py, po
Pyr002	Manak Bay No. 2	7	py
U001	Strawberry Island No. 2	7	(U)
U002	Belle Island	7	(U)
U003	Kidlalulit Island No. 1	7	(U)
U004	Kidlalulit Island No. 2	7	(U)
13O/03/Gu001	Douglas Showing (Kaipokok Bay)	6	cp, py, po
Gu002	Best's Cove Showing	7	Cu
Gu003	Pomalie Pond No. 1 Dh Showing	6	py, cp, po, (Bi, Ag, Au)
Gu004	John Michelin No. 17 (Round Pond Grid)	7	py, cp
Gu005	BC-29 Showing (Round Pond Grid)	7	cp, mo, fl
Gu006	Vein No. 6 (Round Pond Grid)	6	cp, mo, py
Gu007	Round Pond Grid No.*2	7	cp
Fsp001	East Ford's Bight No. 3	7	fl
Fsp002	East Ford's Bight No. 6	7	fl, (mo, cp)
Fsp003	John Michelin No. 22 (Round Pond Grid)	7	fl
Fsp004	North Monkey Hill No. No. 4 Showing	7	fl
Mo001	Duck Island	6	mo, py
Mo002	Amos Showing	2	mo, (U), cp, fl
Mo003	Aillik Prospect	2	mo, (U), cp, fl
Mo004	Samuel's Point (Makkovik Bay)	7	mo, fl, cp
Mo005	Retreat Lake No. 1 Showing	7	mo, py
Mo006	Retreat Lake No. 4	7	mo, py
Mo007	Island Lake No. 1 Showing	6	mo, py
Mo008	West Ford's Bight No. 1	7	mo
Mo009	West Ford's Bight No. 2	7	mo
Mo010	West Ford's Bight No. 4	7	mo
Mo011	West Ford's Bight No. 5	7	mo
Mo012	West Ford's Bight No. 7	7	mo
Mo013	West Ford's Bight No. 6	7	mo
Mo014	West Ford's Bight No. 8	7	mo
Mo015	West Ford's Bight No. 9	7	mo
Mo016	West Ford's Bight No. 10	7	mo
Mo017	West Ford's Bight No. 11	7	mo
Mo018	West Ford's Bight No. 12	7	mo
Mo019	West Ford's Bight No. 12 Showing	6	mo, py
Mo020	Leslie Michelin No. 12 Showing	6	mo, py
Mo021	East Ford's Bight No. 4	7	mo, (gn, fl, sp)
Mo022	East Ford's Bight No. 2	7	mo, (gn, fl, sp)
Mo023	East Ford's Bight No. 5	7	mo, (gn, fl, sp)
Mo024	East Ford's Bight No. 1	7	mo, (gn, fl, sp)
Mo025	East Ford's Bight No. 7	7	mo, (gn, fl, sp)
Mo026	East Ford's Bight No. 8	7	mo, (gn, fl, sp)
Mo027	Leslie Michelin No. 13 Showing	6	mo
Mo028	East Ford's Bight No. 9	7	mo, (gn, fl, sp)
Mo029	Vein No. 4 (Round Pond Grid)	6	mo, cp, py
Mo030	Veins No. 5/No. 10 (Round Pond Grid)	6	mo, cp, py
Mo031	Veins No. 3 & No. 9 (Round Pond Grid)	6	mo, cp, py
Mo032	Vein No. 8 (Round Pond Grid)	6	mo, cp, py
Mo033	John Michelin No. 20 (Round Pond Grid)	7	mo, py
Mo034	Round Pond Grid No. 4	7	mo
Mo035	BC-30 Showing (Round Pond Grid)	7	mo
Mo036	Vein No. 1 (Round Pond Grid)	6	mo, cp, py
Mo037	John Michelin No. 8 (Round Pond Grid)	7	mo, cp
Mo038	John Michelin No. 19 (Round Pond Grid)	7	mo
Mo039	Vein No. 7 (Round Pond Grid)	6	mo, cp, py
Mo040	BC-27 Showing (Round Pond Grid)	7	mo, cp, py
Mo041	John Michelin No. 12 Occurrence	7	mo, py
Mo042	Vein No. 11	6	mo, cp
Mo043	Round Pond Grid No. 1	7	mo
Mo044	John Michelin No. 24 (Round Pond Grid)	7	mo
Mo045	John Michelin No. 13 (Round Pond Grid)	7	mo, py
Mo046	John Michelin No. 23 (Round Pond Grid)	7	mo, py
Mo047	Banana Lake No. 6	7	mo
Mo048	North Monkey Hill No. 1 Showing	7	mo, cp, py
Mo049	North Monkey Hill No. 2 Showing	7	mo, cp, py
Mo050	North Monkey Hill No. 3 Showing	7	mo, cp, py
Mo051	North Monkey Hill No. 4 Showing	7	mo, cp, py
Mo052	North Monkey Hill No. 5 Showing	7	mo, cp, py
Mo053	Leslie Michelin No. 15 Showing	7	mo, py
Pb001	Mink Trap Brook	6	gn
Pb002	Poodle Pond No. 2 Showing	7	gn
Pyr001	Kitts Pond No. 1 Showing	7	py
Pyr002	Kitts Pond No. 2 Showing	7	py
Pyr003	Kitts Pond No. 3 Showing	7	py
Pyr004	Mark's Bight No. 2 Showing	7	py
Pyr005	Mark's Bight No. 1 Showing	7	py
Pyr006	Long Island No. 2 Showing	7	py
Pyr007	Mark's Bight No. 3 Showing	7	py
Pyr008	A-3 Showing	7	py, (U)
Pyr009	John Michelin No. 5 (Round Pond Grid)	7	py, mo, asp
Pyr010	John Michelin No. 25 (Round Pond Grid)	7	py, mo, cp
Pyr011	John Michelin No. 21 (Round Pond Grid)	7	py
Pyr012	Kennedys Cove	7	py, po
U001	Anderson Ridge Prospect	5	(U)
U002	Long Island No. 1 Showing	7	(U)
U003	Cape Makkovik Shore	6	ptbl, ur
U004	Bradley Showing	7	(U)
U005	Shoal Bay No. 2 Showing	6	ptbl, ur
U006	Shoal Bay No. 2 Showing	7	ptbl, ur
U007	Sunset Showing	6	ptbl, ur
U008	Shoal Bay No. 3 Showing	7	ptbl, ur
U009	Banana Lake No. 1 Showing	6	ptbl, ur, mo
U010	Norris No. 4 Showing	6	ptbl
U011	Banana Lake No. 2 Showing	7	ptbl
U012	Black Hat Showing	7	ptbl, ur
U013	Banana Lake No. 3 Showing	7	ptbl, ur
U014	Banana Lake No. 4 Showing	7	ptbl, ur
U015	Norris No. 1 Showing	6	ptbl, ur
U016	Banana Lake No. 5 Showing	7	ptbl, ur
U017	Norris No. 2 Showing	6	ptbl, ur
U018	Susil Prospect	5	ptbl, ur, mo
U019	A-7 Showing	6	ptbl, ur
U020	Pedro's Bot Seat (Anomaly A-8)	7	(U)
U021	Makkovik Village	7	(U)
U022	Retreat Lake No. 2 Showing	7	(U)
U023	John Michelin Showing	5	ptbl, ur
U024	Retreat Lake No. 3	7	(U)
U025	Island Lake No. 4	7	(U)
U026	Island Lake No. 2 Showing	6	(U)
U027	Island Lake No. 3 Showing	6	(U)
U028	Round Pond Grid No. 3 Showing	7	(U)
U029	Kennedys Cove West	7	(U)

* parentheses indicate that the mineral/commodity is present in minor or trace amounts or indicated by an assay.



GOLD IN STREAM SEDIMENTS

PPB		XTILE
2.0		MAX
0.9		98
0.5		MIN

133 SAMPLES

PPB		XTILE
2.0	-	MAX
0.9	-	98
0.5	-	MIN

133 SAMPLES

Geological Survey of Canada
Mineral Resources Division
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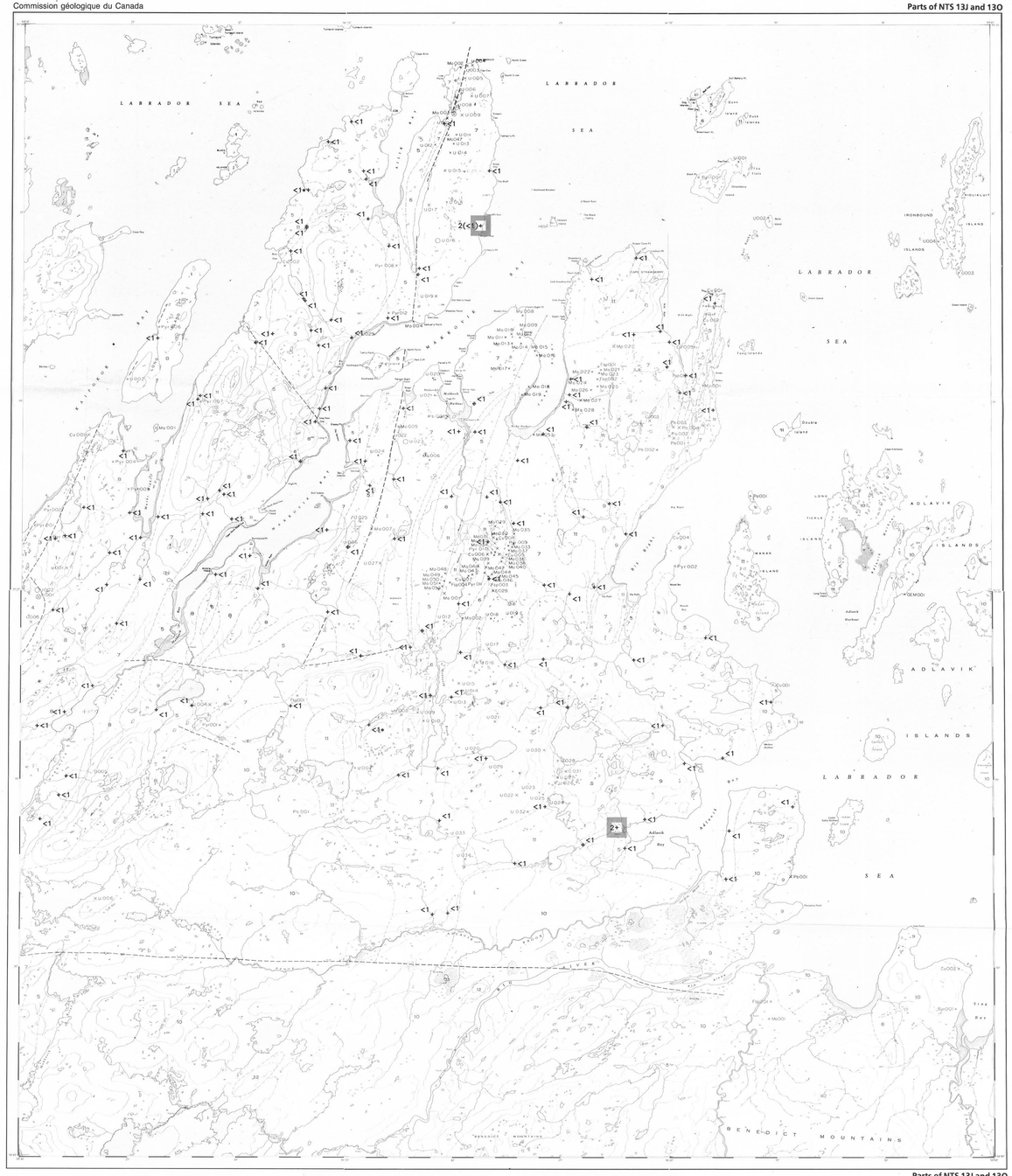

Parts of NTS 13J and 13O

GOLD (ppb) STREAM SEDIMENTS

GSC OPEN FILE 1637
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 103-87
CANADA — NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT (1984 – 1989)
STREAM AND LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
EASTERN LABRADOR, 1987

Scale 1:100 000 - Échelle 1/100 000

Kilometres 2 0 2 4 6 8 Kilometres

Universal Transverse Mercator Projection
Projection transverse universelle de Mercator

GOLD (ppb) STREAM SEDIMENTS

GSC OPEN FILE 1637
EASTERN LABRADOR, 1987

LEGEND

QUATERNARY

13	Q	64*	Glacial or fluvial surficial deposits.

APHEBIAN

12	AMb	O2	MICHAEL GABBRO; pyroxene-olivine gabbro, minor hornblende-biotite gabbro to diorite.
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9	AAb	O2	ADLAVIK INTRUSIVE SUITE; pyroxenite, gabbro, leucogabbro with lesser diabase, diorite and leucodiorite.
8	Agn	O2	Synkinematic intrusive rocks; foliated to gneissic quartz monzonite, granodiorite and granite.
7	AAvf	O2	Felsic volcanic assemblage; rhyolite, ash flow tuffs, ash fall tuffs, volcanic breccia, agglomerate; locally intercalated with volcaniclastic derived metasedimentary rocks; widespread U-Mo mineralization.
6	AAvm	O2	Mafic tuff, tuffaceous sandstone, minor basaltic breccia and pillow lava, includes minor diorite to amphibolite.
5	AAsv	O2	Metasedimentary assemblage; subaqueous tuffaceous sandstones and siltstones, with intercalated conglomerates, breccias, limestones, ironstones and felsic tuffs; upper portion may be terrestrial in origin.
			LOWER AILLIK GROUP
4	AKPv	O2	KITTS PILLOW LAVA FORMATION; mafic pillow lava, mafic tuffs and derived amphibolite; includes thin intercalated uranifeorus chert, argillite, and tuffaceous sandstone.
3	AAs	O2	Dark grey quartzofeldspathic sandstone and siltstone, graphitic and pyritic siltstone, psammitic and semipelitic schist.
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ARCHEAN

1	AHgn	O1	HOPEDALE GNEISS COMPLEX; Banded dioritic gneisses and migmatites with subordinate amphibolite and mylonite.

*A mnemonic code assigned to rock types and recorded as part of field observations.

Geological boundary . . . . . ~

Fault . . . . . ~

No analytical results . . . . . *

Field duplicate sample sites . . . . . *

Geology base, mineral occurrences and legend derived from:

Newfoundland Department of Mines and Energy, 1983. Mineral Occurrence Map: Big River Area, Labrador. Map 83-47. Geology by Bailey and others, revised by Gower and Kerr (1981).

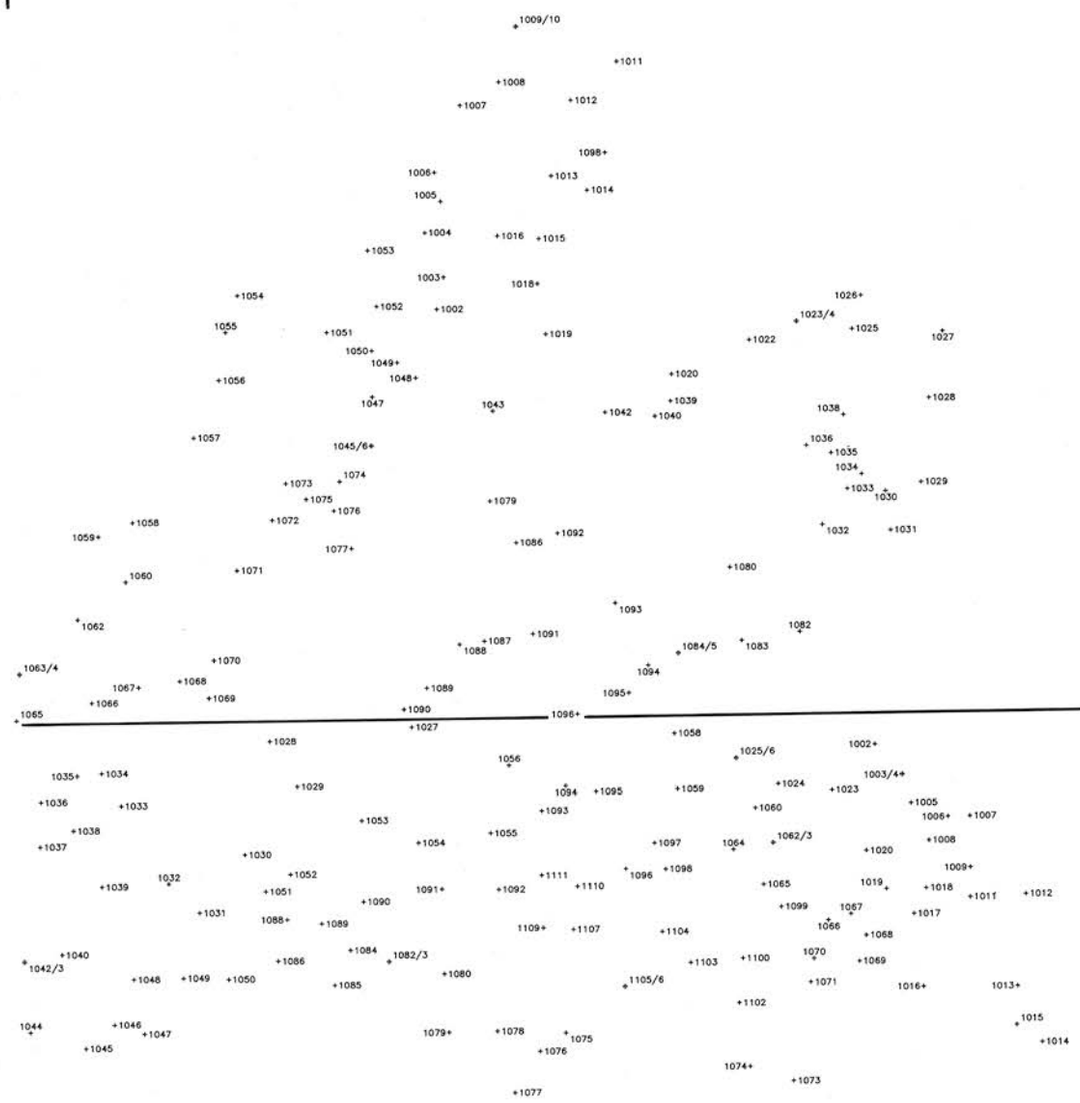
Elevation in feet above mean sea level

Mean magnetic declination 1988, 29° 57' West, decreasing 9.4' annually.

CONCENTRATION		FREQUENCY
2	+	N= 2(1.5%)
<1	+	N= 131(98.5%)

GOLD (ppb) STREAM SEDIMENTS
GSC OPEN FILE 1637
EASTERN LABRADOR, 1987

130

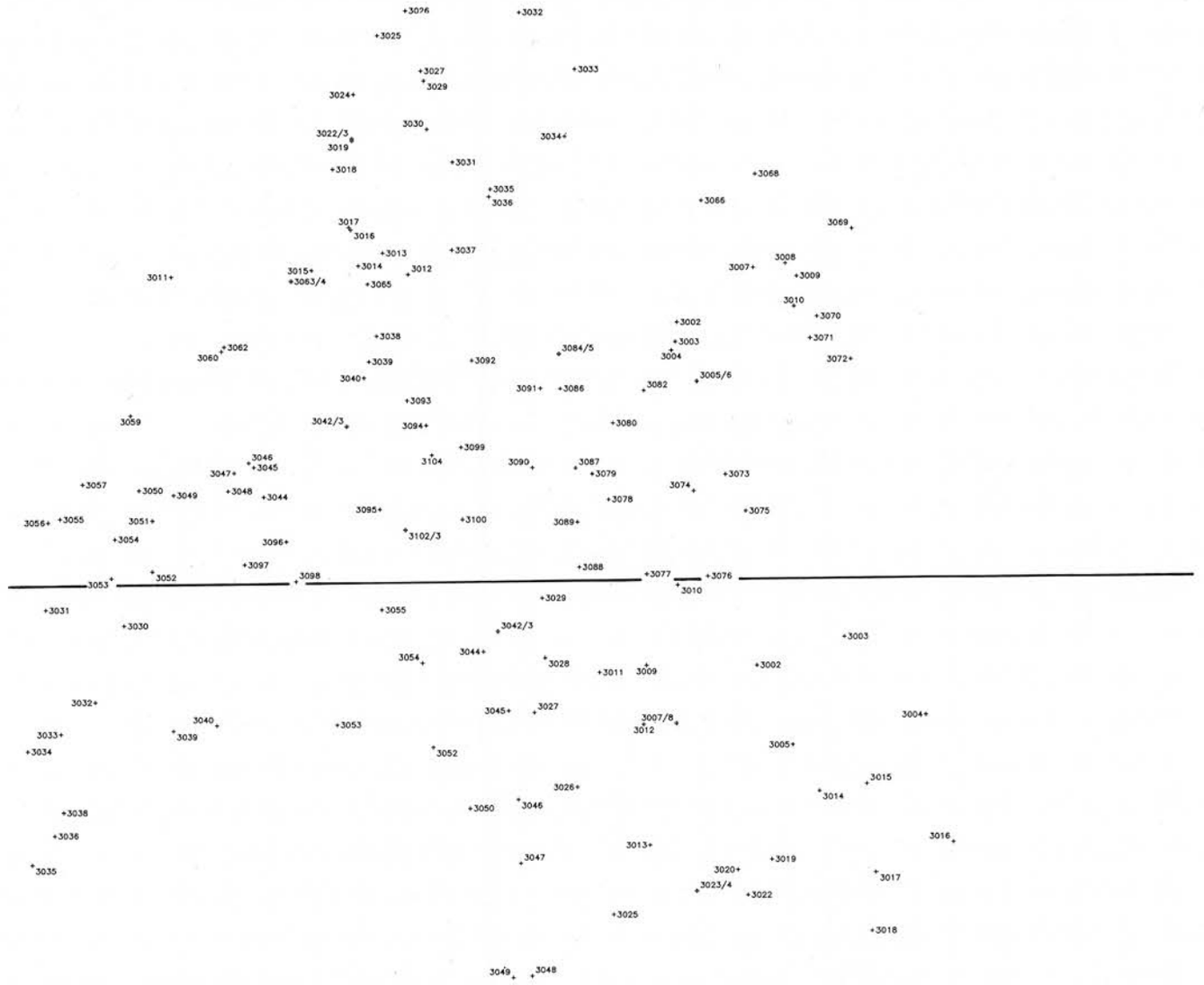


NEWFOUNDLAND 1988
(PARTS OF NTS 13J,130)
LAKE SEDIMENTS

13J

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)

130



NEWFOUNDLAND 1988
(PARTS OF NTS 13J,130)
STREAM SEDIMENTS

13J

MINERAL OCCURRENCE SYMBOLS

Commodity Abbreviations:				Mineral Abbreviations:					
Cu	Copper	Ni	Nickel	amz	amazonite	gn	galena	py	pyrite
Fsp	Fluorspar	Pyr	Pyrite	asp	arsenopyrite	hem	hematite	po	pyrrhotite
Gem	Gemstone	Po	Pyrrhotite	bo	bornite	mag	magnetite	sp	sphalerite
Au	Gold	Ag	Silver	cp	chalcopyrite	mo	molybdenite	ur	uraninite
Pb	Lead	U	Uranium	fl	fluorite	ptbl	pitchblende		
Mo	Molybdenum	Zn	Zinc						

Status:

1 - Producer .... ⚒ (circled)
2 - Developed Prospect .... ⊗
3 - Past Producer - dormant .... ⚒
4 - Past Producer - exhausted .... ⚒
5 - Prospect .... ○
6 - Showing .... ×
7 - Indication .... ×

13J/14/Fsp001	Cross Lake South	7	fl
Mo001	Monkey Hill Showings	6	mo, fl, cp
Mo002	North Falls Lake	7	mo
Pb001	Oxbow Lake	7	Pb
Pyr001	Present Lake South	7	py, po
U001	Kitts Prospect	2	ptbl
U002	Kitts 'C' Zone	5	ptbl
U003	Kitts South Showing	6	ptbl
U004	Present Lake Showing	6	ptbl, mo
U005	West Draper Lake	7	(U)
U006	Nyman's Showing (Freshsteak Lake)	6	(U)
U007	Squirrel Lake	7	(U)
U008	Showing No. 1/No. 2 (Pitch Lake)	6	ptbl
U009	West Shoal Lake No. 1	7	(U)
U010	West Shoal Lake No. 2	7	(U)
U011	Showing No. 4 (Shoal Lake)	7	(U)
U012	Showing No. 19 (Falls Lake)	7	(U)
U013	Showing No. 13 (Shoal Lake)	7	(U)
U014	Showing No. 15 (Shoal Lake)	7	(U)
U015	Showing No. 24 (Falls Lake)	6	(U)
U016	Showing No. 16 (Falls Lake)	6	ptbl, fl, py, cp
U017	Showing No. 17 (Falls Lake)	6	ptbl
U018	Showing No. 18 (Falls Lake)	7	(U)
U019	Showing No. 14 (Falls Lake)	7	(U)
U020	Showing No. 3 (Marsha Lake)	7	(U)
U021	Showing No. 9 (Marsha Lake)	7	(U)
U022	Showing No. 7 (Winter Lake)	6	ptbl
U023	Showing No. 11 (Winter Lake)	7	ptbl, (Cu, Zn, Ag)
U024	Showing No. 6 (Winter Lake)	7	(U)
U025	Showings No. 12 & No. 21 (Winter Lake)	7	(U)
U026	Showing No. 5 (Bernard Lake)	6	ptbl
U027	Showing No. No. 22 (Bernard Lake)	7	(U)
U028	Showing No. 20 (Bernard Lake)	7	(U)
U029	Showing No. 10 (Marsha Lake)	7	(U)
U030	Bernard Lake New Showing No. 1	7	(U)
U031	South Bernard Lake	7	(U)
U032	West Winter Lake	7	(U)
U033	North Adlavik Brook No. 1	7	(U)
U034	North Adlavik Brook No. 2	7	(U)
13J/15/Cu001	Manak Bay	7	cp
Cu002	Stag Bay No. 1	7	cp, gn, fl, py
Fsp001	Big River No. 1	7	fl, gn
Gem001	Long Tickle, Adlavik Islands	7	amz
Mo001	Big River No. 2	7	mo
Pb001	Porcupine Point	6	gn, asp
Pyr001	Stag Bay No. 2	7	py
13O/02/Cu001	Jerry's Cove	7	cp
Cu002	Pomiadluk Point No. 1	7	cp
Cu003	Pomiadluk Point No. 2	7	cp
Cu004	Manak Bay No. 1	7	Cu
Fsp001	October Harbour No. 1	7	fl
Mo001	October Harbour No. 2	7	mo, gn, cp, py
Pb001	Big Bight Vein No. 1	6	gn, fl, cp
Pb002	Big Bight Vein No. 2	6	gn, fl, cp
Pb003	Big Bight Vein No. 3	6	gn, py, fl
Pb004	Big Bight Vein No. 4	6	gn, py, sp
Po001	Manak Island North	7	po
Pyr001	Strawberry Island No. 1	7	py, po
Pyr002	Manak Bay No. 2	7	py
U001	Strawberry Island No. 2	7	(U)
U002	Belle Island	7	(U)
U003	Kidlialuit Island No. 1	7	(U)
U004	Kidlialuit Island No. 2	7	(U)
13O/03/Cu001	Douglas Showing (Kaipokok Bay)	6	cp, py, po
Cu002	Bent's Cove Showing	7	Cu
Cu003	Poodle Pond No. 1 Showing	6	py, cp, po, (Ni, Ag, Au)
Cu004	John Michelin No. 17 (Round Pond Grid)	7	py, cp
Cu005	BC-29 Showing (Round Pond Grid)	7	cp, mo, fl
Cu006	Vein No. 6 (Round Pond Grid)	6	cp, mo, py
Cu007	Round Pond Grid No. 2	7	cp
Fsp001	East Ford's Bight No. 3	7	fl
Fsp002	East Ford's Bight No. 6	7	fl
Fsp003	John Michelin No. 22 (Round Pond Grid)	7	fl, (mo, cp)
Fsp004	North Monkey Hill No. No. 6 Showing	7	fl
Mo001	Duck Island	6	mo, py
Mo002	Amax Showing	6	mo, fl, py
Mo003	Aillik Prospect	2	mo, (U), cp, fl
Mo004	Samuel's Point (Makkovik Bay)	7	mo, py, po, cp
Mo005	Retreat Lake No. 1 Showing	7	mo, fl, py
Mo006	Retreat Lake No. 4	7	mo, py
Mo007	Island Lake No. 1 Showing	6	mo, py
Mo008	West Ford's Bight No. 1	7	mo
Mo009	West Ford's Bight No. 2	7	mo
Mo010	West Ford's Bight No. 3	7	mo
Mo011	West Ford's Bight No. 4	7	mo
Mo012	West Ford's Bight No. 5	7	mo
Mo013	West Ford's Bight No. 6	7	mo
Mo014	West Ford's Bight No. 7	7	mo
Mo015	West Ford's Bight No. 8	7	mo
Mo016	West Ford's Bight No. 9	7	mo
Mo017	West Ford's Bight No. 10	7	mo
Mo018	West Ford's Bight No. 11	7	mo
Mo019	West Ford's Bight No. 12	7	mo
Mo020	Leslie Michelin No. 12 Showing	6	mo, py
Mo021	East Ford's Bight No. 4	7	mo, (gn, fl, sp)
Mo022	East Ford's Bight No. 2	7	mo, (gn, fl, sp)
Mo023	East Ford's Bight No. 5	7	mo, (gn, fl, sp)
Mo024	East Ford's Bight No. 1	7	mo, (gn, fl, sp)
Mo025	East Ford's Bight No. 7	7	mo, (gn, fl, sp)
Mo026	East Ford's Bight No. 8	7	mo, (gn, fl, sp)
Mo027	Leslie Michelin No. 13 Showing	6	mo
Mo028	East Ford's Bight No. 9	7	mo, (gn, fl, sp)
Mo029	Vein No. 4 (Round Pond Grid)	6	mo, cp, py
Mo030	Veins No. 5/No. 10 (Round Pond Grid)	6	mo, cp, py
Mo031	Veins No. 3 & No. 9 (Round Pond Grid)	6	mo, cp, py
Mo032	Vein No. 8 (Round Pond Grid)	6	mo, cp, py
Mo033	John Michelin No. 20 (Round Pond Grid)	7	mo, py
Mo034	Round Pond Grid No. 4	7	mo
Mo035	BC-30 Showing (Round Pond Grid)	7	mo
Mo036	Vein No. 1 (Round Pond Grid)	6	mo, cp, py
Mo037	John Michelin No. 8 (Round Pond Grid)	7	mo, cp
Mo038	John Michelin No. 19 (Round Pond Grid)	7	mo
Mo039	Vein No. 7 (Round Pond Grid)	6	mo, cp, py
Mo040	BC-27 Showing (Round Pond Grid)	7	mo, cp, py
Mo041	John Michelin No. 12 Occurrence	7	mo, py
Mo042	Vein No. 11	6	mo, cp
Mo043	Round Pond Grid No. 1	7	mo
Mo044	John Michelin No. 24 (Round Pond Grid)	7	mo
Mo045	John Michelin No. 13 (Round Pond Grid)	7	mo, py
Mo046	John Michelin No. 23 (Round Pond Grid)	7	mo, py
Mo047	Banana Lake No. 6	7	mo
Mo048	North Monkey Hill No. 1 Showing	7	mo, cp, py
Mo049	North Monkey Hill No. 2 Showing	7	mo, cp, py
Mo050	North Monkey Hill No. 3 Showing	7	mo, cp, py
Mo051	North Monkey Hill No. 4 Showing	7	mo, cp, py
Mo052	North Monkey Hill No. 5 Showing	7	mo, cp, py
Mo053	Leslie Michelin No. 15 Showing	7	mo, py
Pb001	Mink Trap Brook	6	gn
Pb002	Poodle Pond No. 2 Showing	7	gn
Pyr001	Kitts Pond No. 1 Showing	7	py
Pyr002	Kitts Pond No. 2 Showing	7	py
Pyr003	Kitts Pond No. 3 Showing	7	py
Pyr004	Mark's Bight No. 2 Showing	7	py
Pyr005	Mark's Bight No. 1 Showing	7	py
Pyr006	Long Island No. 2 Showing	7	py
Pyr007	Mark's Bight No. 3 Showing	7	py
Pyr008	A-3 Showing	7	py, (U)
Pyr009	John Michelin No. 5 (Round Pond Grid)	7	py, mo, asp
Pyr010	John Michelin No. 25 (Round Pond Grid)	7	py, mo, cp
Pyr011	John Michelin No. 21 (Round Pond Grid)	7	py
Pyr012	Kennedys Cove	7	py, po
U001	Anderson Ridge Prospect	5	(U)
U002	Long Island No. 1 Showing	7	(U)
U003	Cape Makkovik Shore	6	ptbl, ur
U004	Bradley Showing	7	(U)
U005	Shoal Bay No. 2 Showing	6	ptbl, ur
U006	Shoal Bay No. 2 Showing	7	ptbl, ur
U007	Sunset Showing	6	ptbl, ur
U008	Shoal Bay No. 3 Showing	7	ptbl, ur
U009	Banana Lake No. 1 Showing	6	ptbl, ur, mo
U010	Morris No. 4 Showing	6	ptbl
U011	Banana Lake No. 2 Showing	7	ptbl
U012	Black Hat Showing	7	ptbl, ur
U013	Banana Lake No. 3 Showing	7	ptbl, ur
U014	Banana Lake No. 4 Showing	7	ptbl, ur
U015	Morris No. 1 Showing	6	ptbl, ur
U016	Banana Lake No. 5 Showing	7	ptbl, ur
U017	Morris No. 2 Showing	6	ptbl, ur
U018	Sunil Prospect	5	ptbl, ur, mo
U019	A-7 Showing	6	ptbl, ur
U020	Pedro's Hot Seat (Anomaly A-8)	7	(U)
U021	Makkovik Village	7	(U)
U022	Retreat Lake No. 2 Showing	7	(U)
U023	John Michelin Showing	5	ptbl, ur
U024	Retreat Lake No. 3	7	(U)
U025	Island Lake No. 4	7	(U)
U026	Island Lake No. 2 Showing	6	(U)
U027	Island Lake No. 3 Showing	6	(U)
U028	Round Pond Grid No. 3 Showing	6	(U)
U029	Kennedys Cove West	7	(U)

* parentheses indicate that the mineral/commodity is present in minor or trace amounts or indicated by an assay.

Geological Survey of Canada
Mineral Resources Division
Exploration Geochemistry Subdivision

CONTRACTORS

Stream sediment and lake sediment sample collection by GSC personnel
Sample preparation by Golder Associates, Ottawa
Sediment chemical analyses by Bondar-Clegg and Company Ltd., Ottawa
Water and Au chemical analysis by Chemex Labs Limited, Vancouver
Geological base prepared by Geological Survey of Canada
Copies of the Open File map material, element trend and symbol plots, listing of field observations, analytical data, descriptions of analytical methods, and digital data on IBM-PC compatible diskette are available by inquiring to:

Geological Survey of Canada
Publications Distribution
601 Booth Street
Ottawa, Ontario K1A 0E8
Tel.: (613) 995-4342

Contribution to Canada-Newfoundland Mineral Development Agreement 1984-89, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by the Geological Survey of Canada.

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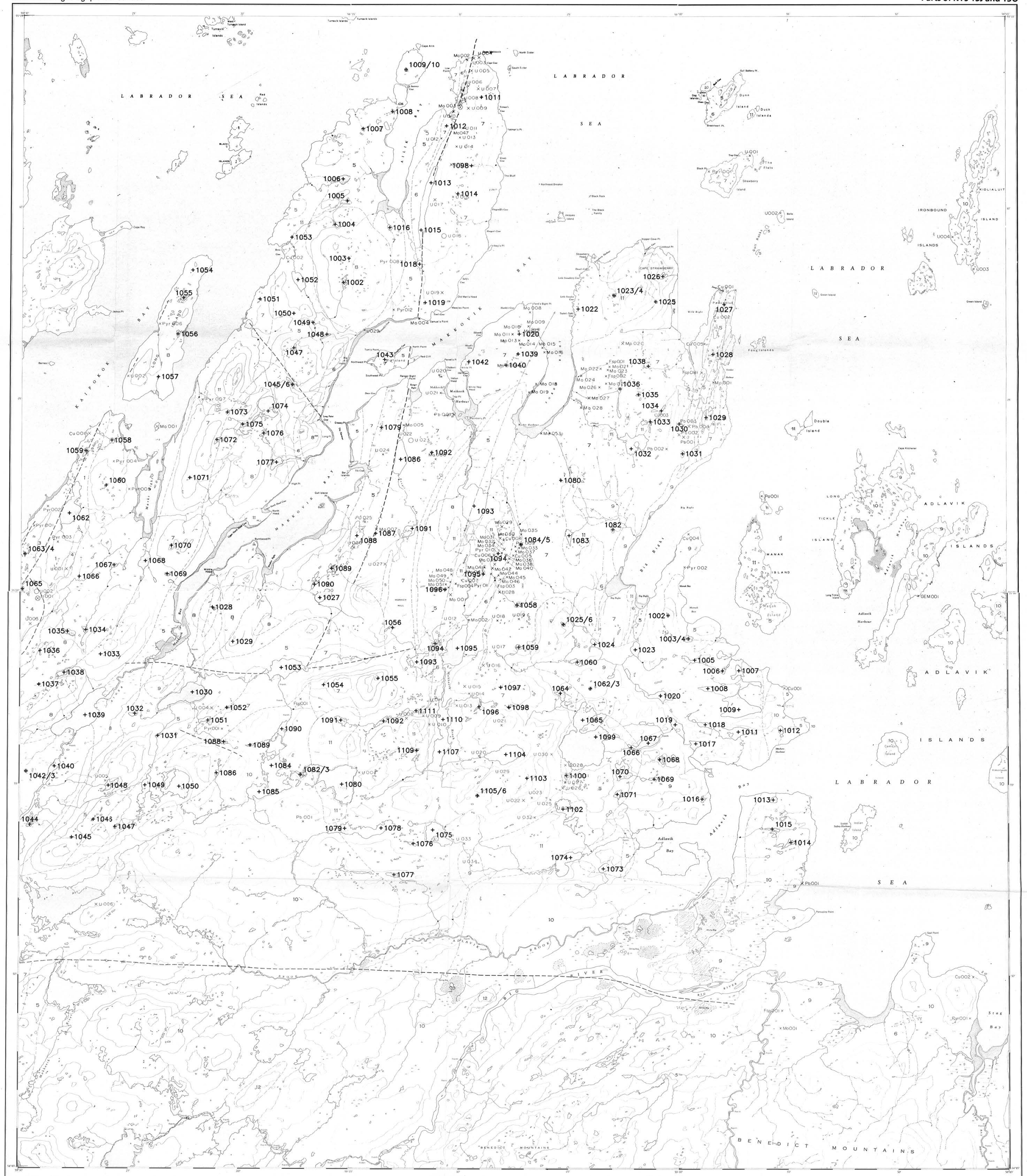
DEPARTMENT OF MINES
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

Energy, Mines and Resources Canada | Énergie, Mines et Ressources Canada

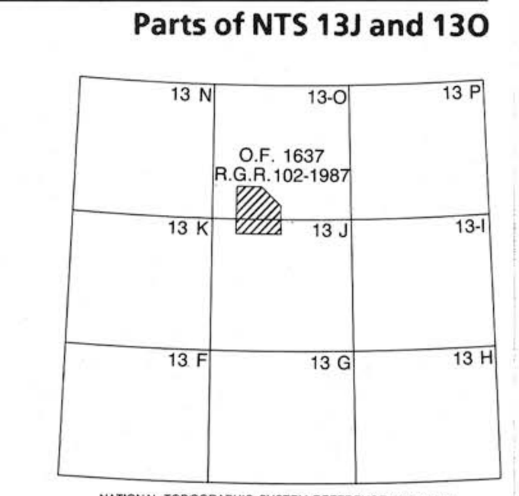
Canada

Geological Survey of Canada
Commission géologique du Canada

Parts of NTS 13J and 13O



Parts of NTS 13J and 13O



SAMPLE LOCATION
LAKE SEDIMENTS
GSC OPEN FILE 1637
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 102-87
CANADA – NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT (1984 – 1989)

STREAM AND LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
EASTERN LABRADOR, 1987

Scale 1:100 000 - Échelle 1/100 000

Kilometres 2 0 2 4 6 8 Kilomètres

Universal Transverse Mercator Projection | Projection transverse universelle de Mercator

SAMPLE LOCATION
LAKE SEDIMENTS
GSC OPEN FILE 1637
EASTERN LABRADOR, 1987

LEGEND

QUATERNARY

13	Q	64*	Glacial or fluvial surficial deposits.

APHEBIAN

12	AMb	02	MICHAEL GABBRO; pyroxene-olivine gabbro, minor hornblende-biotite gabbro to diorite.
11	AMHg	02	MONKEY HILL, STRAWBERRY and OCTOBER HARBOUR GRANITES; pink to white, medium to coarse leucocratic granites, locally porphyritic, commonly pegmatic.
10	ABmg	02	BENEDICT MOUNTAINS INTRUSIVE SUITE; quartz monzonites, granodiorites, and granites, locally porphyritic.
9	AAb	02	ADLAVIK INTRUSIVE SUITE; pyroxenite, gabbro, leucogabbro with lesser diabase, diorite and leucodiorite.
8	Agn	02	Synkinematic intrusive rocks; foliated to gneissic quartz monzonite, granodiorite and granite.
7	AAvf	02	Felsic volcanic assemblage; rhyolite, ash flow tuffs, ash fall tuffs, volcanic breccia, agglomerate; locally intercalated with volcaniclastic derived metasedimentary rocks; widespread U-Mo mineralization.
6	AAvm	02	Mafic tuff, tuffaceous sandstone, minor basaltic breccia and pillow lava, includes minor diorite to amphibolite.
5	AAsv	02	Metasedimentary assemblage; subaqueous tuffaceous sandstones and siltstones, with intercalated conglomerates, breccias, limestones, ironstones and felsic tuffs; upper portion may be terrestrial in origin.

LOWER AILLIK GROUP

4	AKPv	02	KITTS PILLOW LAVA FORMATION; mafic pillow lava, mafic tuffs and derived amphibolite; includes thin intercalated uranifeorus chert, argillite, and tuffaceous sandstone.
3	AAs	02	Dark grey quartzofeldspathic sandstone and siltstone, graphitic and pyritic siltstone, psammitic and semipelitic schist.
2	APHb	02	POST HILL AMPHIBOLITE; Dark green and grey hornblende schist.

ARCHEAN

1	AHgn	01	HOPEDALE GNEISS COMPLEX; Banded dioritic gneisses and migmatites with subordinate amphibolite and mylonite.

*A mnemonic code assigned to rock types and recorded as part of field observations.

Geological boundary ....
Fault ....
No analytical results .... *
Field duplicate sample sites .... ⊕

Geology base, mineral occurrences and legend derived from:

Newfoundland Department of Mines and Energy, 1983. Mineral Occurrence Map: Kaipokok Bay - Big River Area, Labrador. Map 83-47. Geology by Bailey and others, revised by Gower and Kerr (1981).

Elevation in feet above mean sea level

Mean magnetic declination 1988, 29° 57' West, decreasing 9.4' annually.

SAMPLE LOCATION
LAKE SEDIMENTS
GSC OPEN FILE 1637
EASTERN LABRADOR, 1987

MINERAL OCCURRENCE SYMBOLS

Commodity Abbreviations:				Mineral Abbreviations:					
Cu	Copper	Ni	Nickel	amz	amazonite	gn	galena	py	pyrite
Fsp	Fluorspar	Pyr	Pyrite	asp	arsenopyrite	hem	hematite	po	pyrrhotite
Gem	Gemstone	Po	Pyrrhotite	bo	bornite	mag	magnetite	sp	sphalerite
Au	Gold	Ag	Silver	cp	chalcopyrite	mo	molybdenite	ur	uraninite
Pb	Lead	U	Uranium	fl	fluorite	ptbl	pitchblende		
Mo	Molybdenum	Zn	Zinc						

Status:

1 - Producer ⚒
2 - Developed Prospect ⊗
3 - Past Producer - dormant ⚒
4 - Past Producer - exhausted ⚒
5 - Prospect ○
6 - Showing ×
7 - Indication ×

13J/14/FspO01	Cross Lake South	7	fl
MoO01	Monkey Hill Showings	6	mo, fl, cp
MoO02	North Falls Lake	7	mo
PbO01	Oxbow Lake	7	Pb
PyrO01	Present Lake South	7	py, po
UO01	Kitts Prospect	2	ptbl
UO02	Kitts 'C' Zone	5	ptbl
UO03	Kitts South Showing	6	ptbl
UO04	Present Lake Showing	6	ptbl, mo
UO05	West Draper Lake	7	(U)
UO06	Syman's Showing (Freesteak Lake)	6	(U)
UO07	Squirrel Lake	7	(U)
UO08	Showing No. 1/No. 2 (Pitch Lake)	6	ptbl
UO09	West Shoal Lake No. 1	7	(U)
UO10	West Shoal Lake No. 2	7	(U)
UO11	Showing No. 6 (Shoal Lake)	7	(U)
UO12	Showing No. 19 (Falls Lake)	7	(U)
UO13	Showing No. 13 (Shoal Lake)	7	(U)
UO14	Showing No. 15 (Shoal Lake)	7	(U)
UO15	Showing No. 24 (Falls Lake)	6	(U)
UO16	Showing No. 16 (Falls Lake)	6	ptbl, fl, py, cp
UO17	Showing No. 17 (Falls Lake)	6	ptbl
UO18	Showing No. 18 (Falls Lake)	7	(U)
UO19	Showing No. 14 (Falls Lake)	7	(U)
UO20	Showing No. 3 (Charana Lake)	7	(U)
UO21	Showing No. 9 (Charana Lake)	7	(U)
UO22	Showing No. 7 (Winter Lake)	6	ptbl
UO23	Showing No. 11 (Winter Lake)	7	ptbl, (Cu, Zn, Ag)
UO24	Showing No. 6 (Winter Lake)	7	(U)
UO25	Showings No. 12 & No. 21 (Winter Lake)	7	(U)
UO26	Showing No. 5 (Bernard Lake)	6	ptbl
UO27	Showing No. No. 22 (Bernard Lake)	7	(U)
UO28	Showing No. 20 (Bernard Lake)	7	(U)
UO29	Showing No. 10 (Charana Lake)	7	(U)
UO30	Bernard Lake New Sbowing No. 1	7	(U)
UO31	South Bernard Lake	7	(U)
UO32	West Winter Lake	7	(U)
UO33	North Adlavik Brook No. 1	7	(U)
UO34	North Adlavik Brook No. 2	7	(U)
13J/15/CuO01	Manak Bay	7	cp
CuO02	Stag Bay No. 1	7	cp, gn, fl, py
FspO01	Big River No. 1	7	fl, gn
GemO01	Long Tickle, Adlavik Islands	7	amz
MoO01	Big River No. 2	7	mo
PbO01	Porcupine Point	6	gn, asp
PyrO01	Stag Bay No. 2	7	py
13O/02/CuO01	Jerry's Cove	7	cp
CuO02	Pomiaduk Point No. 1	7	cp
CuO03	Pomiaduk Point No. 2	7	cp
CuO04	Manak Bay No. 3	7	cp
FspO01	October Harbour No. 1	7	fl
MoO01	October Harbour No. 2	7	mo, gn, cp, py
PbO01	Big Bight Vein No. 1	6	gn, fl, cp
PbO02	Big Bight Vein No. 2	6	gn, fl, cp
PbO03	Big Bight Vein No. 3	6	gn, py, fl
PbO04	Big Bight Vein No. 4	7	gn, py, sp
PuO01	Manak Island North	7	py
PyrO01	Strawberry Island No. 1	7	py, po
PyrO02	Manak Bay No. 2	7	py
UO01	Strawberry Island No. 2	7	(U)
UO02	Belle Island	7	(U)
UO03	Kidlalulit Island No. 1	7	(U)
UO04	Kidlalulit Island No. 2	7	(U)
13O/03/CuO01	Douglas Showing (Kaipokok Bay)	6	cp, py, po
CuO02	Bendell's Cove Showing	7	Cu
CuO03	Poodle Pond No. 1 Showing	6	py, cp, po, (Bi, Ag, Au)
CuO04	John Michelin No. 17 (Round Pond Grid)	7	py, cp
CuO05	XC-29 Showing (Round Pond Grid)	7	cp, mo, fl
CuO06	Vein No. 6 (Round Pond Grid)	6	cps mo, py
CuO07	Round Pond Grid No. 2	7	cp
FspO01	East Ford's Bight No. 3	7	fl
FspO02	East Ford's Bight No. 6	7	fl
FspO03	John Michelin No. 22 (Round Pond Grid)	7	fl, (mo, cp)
FspO04	North Monkey Hill No. No. 6 Showing	7	fl
MoO01	Duck Island	6	mo, py
MoO02	Amax Showing	6	mo, fl, py
MoO03	Ailik Prospect	2	mo, (U), cp, fl
MoO04	Samuel's Point (Makkovik Bay)	7	mo, py, po, cp
MoO05	Retreat Lake No. 1 Showing	7	mo, fl, py
MoO06	Retreat Lake No. 4	7	mo, py
MoO07	Island Lake No. 1 Showing	6	mo, py
MoO08	West Ford's Bight No. 1	7	mo
MoO09	West Ford's Bight No. 2	7	mo
MoO10	West Ford's Bight No. 3	7	mo
MoO11	West Ford's Bight No. 4	7	mo
MoO12	West Ford's Bight No. 5	7	mo
MoO13	West Ford's Bight No. 6	7	mo
MoO14	West Ford's Bight No. 7	7	mo
MoO15	West Ford's Bight No. 8	7	mo
MoO16	West Ford's Bight No. 9	7	mo
MoO17	West Ford's Bight No. 10	7	mo
MoO18	West Ford's Bight No. 11	7	mo
MoO19	West Ford's Bight No. 12	7	mo
MoO20	Leslie Michelin No. 12 Showing	6	mo, py
MoO21	East Ford's Bight No. 4	7	mo, (gn, fl, sp)
MoO22	East Ford's Bight No. 2	7	mo, (gn, fl, sp)
MoO23	East Ford's Bight No. 5	7	mo, (gn, fl, sp)
MoO24	East Ford's Bight No. 1	7	mo, (gn, fl, sp)
MoO25	East Ford's Bight No. 7	7	mo, (gn, fl, sp)
MoO26	East Ford's Bight No. 8	7	mo, (gn, fl, sp) mo
MoO27	Leslie Michelin No. 13 Showing	6	mo
MoO28	East Ford's Bight No. 9	7	mo, (gn, fl, sp)
MoO29	Vein No. 4 (Round Pond Grid)	6	mo, cp, py
MoO30	Veins No. 5/No. 10 (Round Pond Grid)	6	mo, cp, py
MoO31	Veins No. 3 & No. 9 (Round Pond Grid)	6	mo, cp, py
MoO32	Vein No. 8 (Round Pond Grid)	6	mo, cp, py
MoO33	John Michelin No. 20 (Round Pond Grid)	7	mo, py
MoO34	Round Pond Grid No. 1	7	mo
MoO35	MC-1 Showing (Round Pond Grid)	7	mo
MoO36	Vein No. 1 (Round Pond Grid)	6	mo, cp, py
MoO37	John Michelin No. 8 (Round Pond Grid)	7	mo, cp
MoO38	John Michelin No. 19 (Round Pond Grid)	7	mo
MoO39	Vein No. 7 (Round Pond Grid)	6	mo, cp, py
MoO40	MC-27 Showing (Round Pond Grid)	7	mo, cp, py
MoO41	John Michelin No. 12 Occurrence	7	mo, py
MoO42	Vein No. 11	6	mo, cp
MoO43	Round Pond Grid No. 1	7	mo
MoO44	John Michelin No. 24 (Round Pond Grid)	7	mo
MoO45	John Michelin No. 13 (Round Pond Grid)	7	mo, py
MoO46	John Michelin No. 23 (Round Pond Grid)	7	mo, py
MoO47	Banana Lake No. 6	7	mo
MoO48	North Monkey Hill No. 1 Showing	7	mo, cp, py
MoO49	North Monkey Hill No. 2 Showing	7	mo, cp, py
MoO50	North Monkey Hill No. 3 Showing	7	mo, cp, py
MoO51	North Monkey Hill No. 4 Showing	7	mo, cp, py
MoO52	North Monkey Hill No. 5 Showing	7	mo, cp, py
MoO53	Leslie Michelin No. 15 Showing	7	mo, py
PbO01	Mink Trap Brook	6	gn
PbO02	Poodle Pond No. 2 Showing	7	gn
PyrO01	Kitts Pond No. 1 Showing	7	py
PyrO02	Kitts Pond No. 2 Showing	7	py
PyrO03	Kitts Pond No. 3 Showing	7	py
PyrO04	Mark's Bight No. 2 Showing	7	py
PyrO05	Mark's Bight No. 1 Showing	7	py
PyrO06	Long Island No. 2 Showing	7	py
PyrO07	Mark's Bight No. 3 Showing	7	py
PyrO08	A-3 Showing	7	py, (U)
PyrO09	John Michelin No. 5 (Round Pond Grid)	7	py, mo, asp
PyrO10	John Michelin No. 25 (Round Pond Grid)	7	py, mo, cp
PyrO11	John Michelin No. 21 (Round Pond Grid)	7	py
PyrO12	Kennedys Cove	7	py, po
UO01	Anderson Ridge Prospect	5	(U)
UO02	Long Island No. 1 Showing	7	(U)
UO03	Cape Makkovik Shore	6	ptbl, ur
UO04	Bradley Showing	7	(U)
UO05	Shoal Bay No. 2 Showing	6	ptbl, ur
UO06	Shoal Bay No. 2 Showing	7	ptbl, ur
UO07	Sunset Showing	6	ptbl, ur
UO08	Shoal Bay No. 3 Showing	7	ptbl, ur
UO09	Banana Lake No. 1 Showing	6	ptbl, ur, mo
UO10	Morris No. 4 Showing	6	ptbl
UO11	Banana Lake No. 2 Showing	7	ptbl
UO12	Black Hat Showing	7	ptbl, ur
UO13	Banana Lake No. 3 Showing	7	ptbl, ur
UO14	Banana Lake No. 4 Showing	7	ptbl, ur
UO15	Morris No. 1 Showing	6	ptbl, ur
UO16	Banana Lake No. 5 Showing	7	ptbl, ur
UO17	Morris No. 2 Showing	6	ptbl, ur
UO18	Sunil Prospect	5	ptbl, ur, mo
UO19	A-7 Showing	6	ptbl, ur
UO20	Pedro's Hot Seat (Anomaly A-8)	7	(U)
UO21	Makkovik Village	7	(U)
UO22	Retreat Lake No. 2 Showing	7	(U)
UO23	John Michelin Showing	5	ptbl, ur
UO24	Retreat Lake No. 3	7	(U)
UO25	Island Lake No. 4	7	(U)
UO26	Island Lake No. 2 Showing	6	(U)
UO27	Island Lake No. 3 Showing	6	(U)
UO28	Round Pond Grid No. 3 Showing	6	(U)
UO29	Kennedys Cove West	7	(U)

* parentheses indicate that the mineral/commodity is present in minor or trace amounts or indicated by an assay.

Geological Survey of Canada
Mineral Resources Division
Exploration Geochemistry Subdivision

CONTRACTORS

Stream sediment and lake sediment sample collection by GSC personnel
Sample preparation by Golder Associates, Ottawa
Sediment chemical analyses by Bondar-Clegg and Company Ltd., Ottawa
Water and Au chemical analysis by Chemex Labs Limited, Vancouver
Geological base prepared by Geological Survey of Canada
Copies of the Open File map material, element trend and symbol plots, listing of field observations, analytical data, descriptions of analytical methods, and digital data on IBM-PC compatible diskette are available by inquiring to:

Geological Survey of Canada
Publications Distribution
601 Booth Street
Ottawa, Ontario K1A 0E8
Tel.: (613) 995-4342

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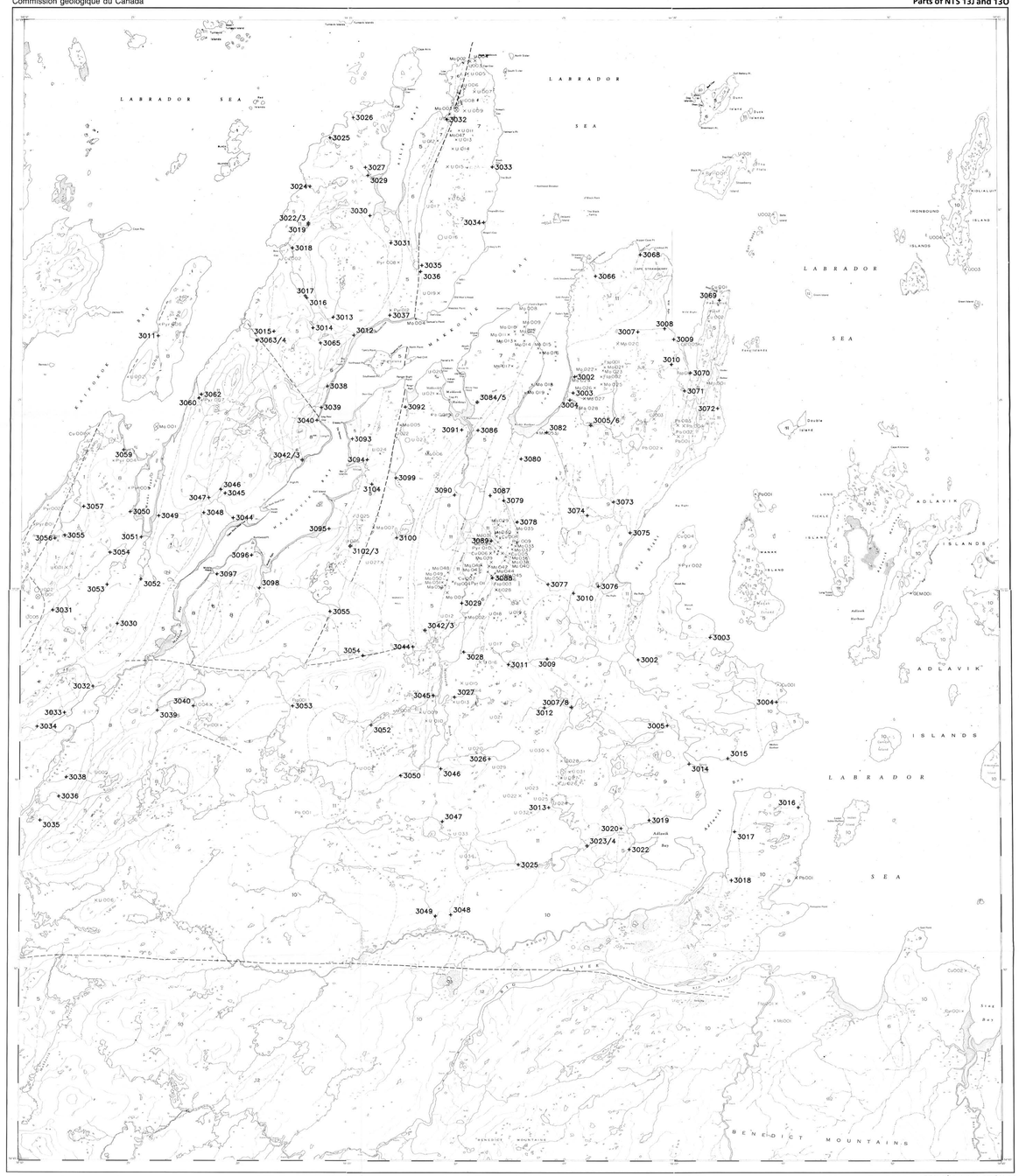
DEPARTMENT OF MINES
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

Energy, Mines and Resources Canada / Énergie, Mines et Ressources Canada

Canada

Geological Survey of Canada
Commission géologique du Canada

Parts of NTS 13J and 13O



Parts of NTS 13J and 13O

SAMPLE LOCATION STREAM SEDIMENTS

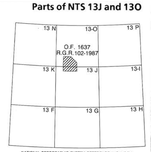
GSC OPEN FILE 1637
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 102-87
CANADA – NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT (1984 – 1989)

STREAM AND LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
EASTERN LABRADOR, 1987

Scale 1:100 000 - Échelle 1/100 000

Kilometres 2 0 2 4 6 8 Kilometres

GEOLOGICAL SURVEY – COMMISSION GÉOLOGIQUE 1842 1967 INDEX MAP – LIEU DE LA CARTE



SAMPLE LOCATION STREAM SEDIMENTS

GSC OPEN FILE 1637
EASTERN LABRADOR, 1987

LEGEND

QUATERNARY

13 Q 64* Glacial or fluvial surficial deposits.

APHEBIAN

12 AMb O2 MICHAEL GABBRO; pyroxene-olivine gabbro, minor hornblende-biotite gabbro to diorite.

11 AMHg O2 MONKEY HILL, STRAWBERRY and OCTOBER HARBOUR GRANITES; pink to white, medium to coarse leucocratic granites, locally porphyritic, commonly pegmatic.

10 ABmg O2 BENEDICT MOUNTAINS INTRUSIVE SUITE; quartz monzonites, granodiorites, and granites, locally porphyritic.

9 AAb O2 ADLAVIK INTRUSIVE SUITE; pyroxenite, gabbro, leucogabbro with lesser diabase, diorite and leucodiorite.

8 Agn O2 Synkinematic intrusive rocks; foliated to gneissic quartz monzonite, granodiorite and granite.

7 AAvf O2 Felsic volcanic assemblage; rhyolite, ash flow tuffs, ash fall tuffs, volcanic breccia, agglomerate; locally intercalated with volcaniclastic derived metasedimentary rocks; widespread U-Mo mineralization.

6 AAvm O2 Mafic tuff, tuffaceous sandstone, minor basaltic breccia and pillow lava, includes minor diorite to amphibolite.

5 AAsv O2 Metasedimentary assemblage; subaqueous tuffaceous sandstones and siltstones, with intercalated conglomerates, breccias, limestones, ironstones and felsic tuffs; upper portion may be terrestrial in origin.

LOWER AILLIK GROUP

4 AKPv O2 KITTS PILLOW LAVA FORMATION; mafic pillow lava, mafic tuffs and derived amphibolite; includes thin intercalated uraniferous chert, argillite, and tuffaceous sandstone.

3 AAs O2 Dark grey quartzofeldspathic sandstone and siltstone, graphitic and pyritic siltstone, psammitic and semipelitic schist.

2 APHb O2 POST HILL AMPHIBOLITE; Dark green and grey hornblende schist.

ARCHEAN

1 AHgn O1 HOPEDALE GNEISS COMPLEX; Banded dioritic gneisses and migmatites with subordinate amphibolite and mylonite.

*A mnemonic code assigned to rock types and recorded as part of field observations.

Geological boundary
Fault
No analytical results *
Field duplicate sample sites *

Geology base, mineral occurrences and legend derived from:

Newfoundland Department of Mines and Energy, 1983. Mineral Occurrence Map: Kaipokok Bay - Big River Area, Labrador. Map 83-47. Geology by Bailey and others, revised by Gower and Kerr (1981).

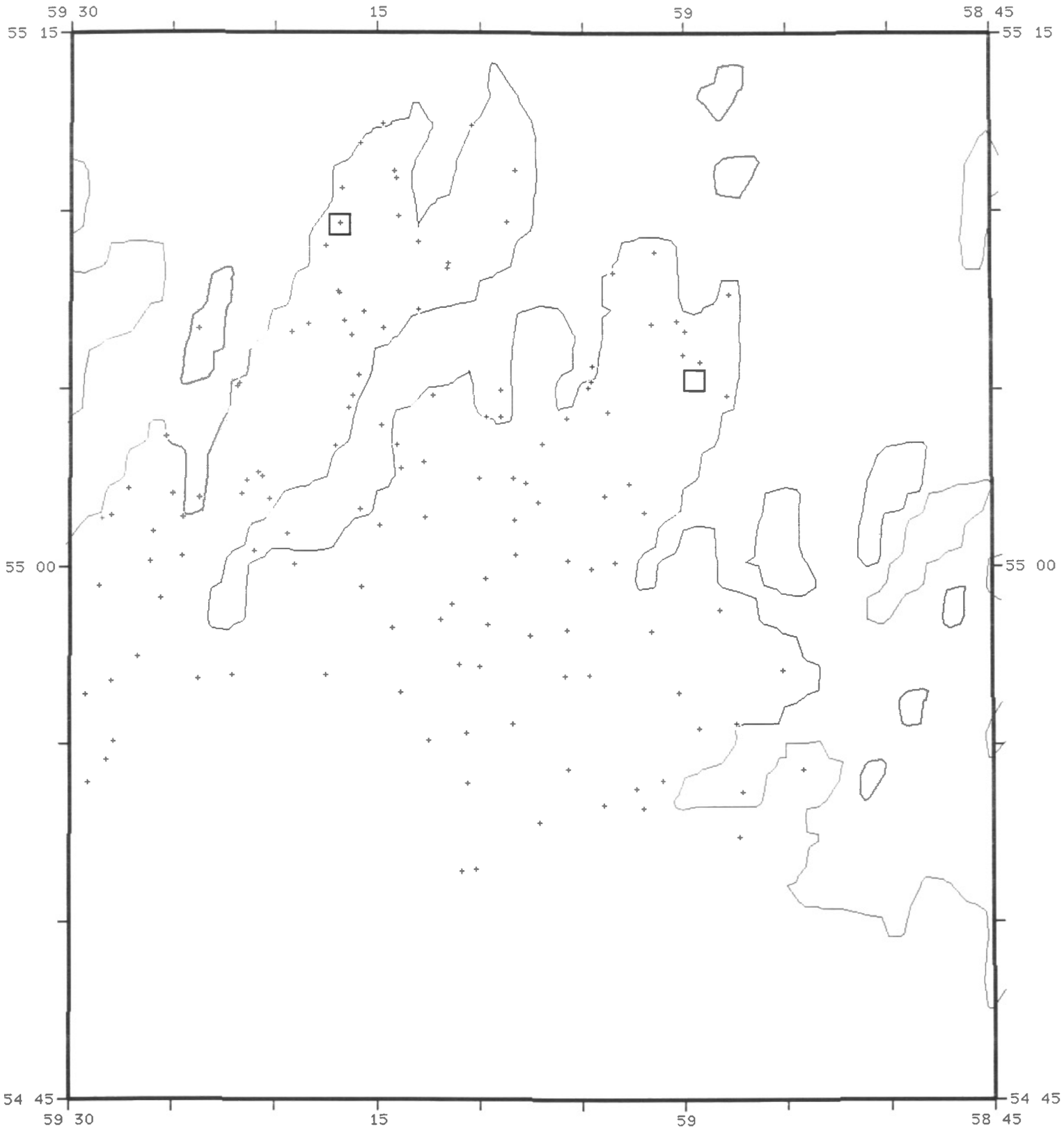
Elevation in feet above mean sea level

Mean magnetic declination 1988, 29° 57' West, decreasing 9.4' annually.

SAMPLE LOCATION STREAM SEDIMENTS
GSC OPEN FILE 1637
EASTERN LABRADOR, 1987

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



ANTIMONY
IN
STREAM SEDIMENTS

PPM	%TILE
0.20	MAX
0.19	99
0.10	MIN

133 SAMPLES

PPM	%TILE
0.20	MAX
0.19	99
0.10	MIN

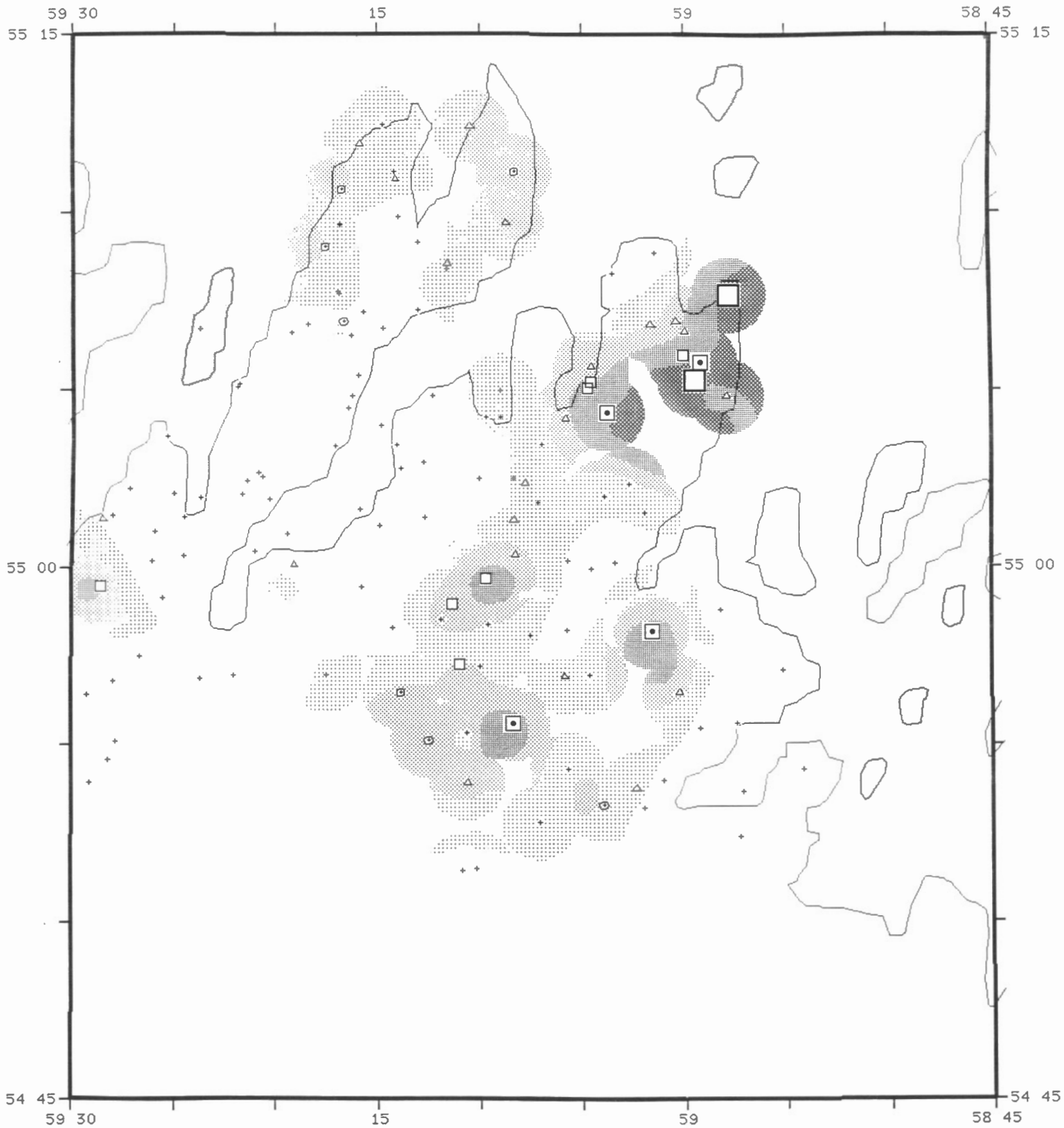
133 SAMPLES

0 20

KILOMETRES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PPM %TILE
13.0 MAX
6.0 95
4.0 90
3.0 80
2.0 70
0.5 MIN
133 SAMPLES

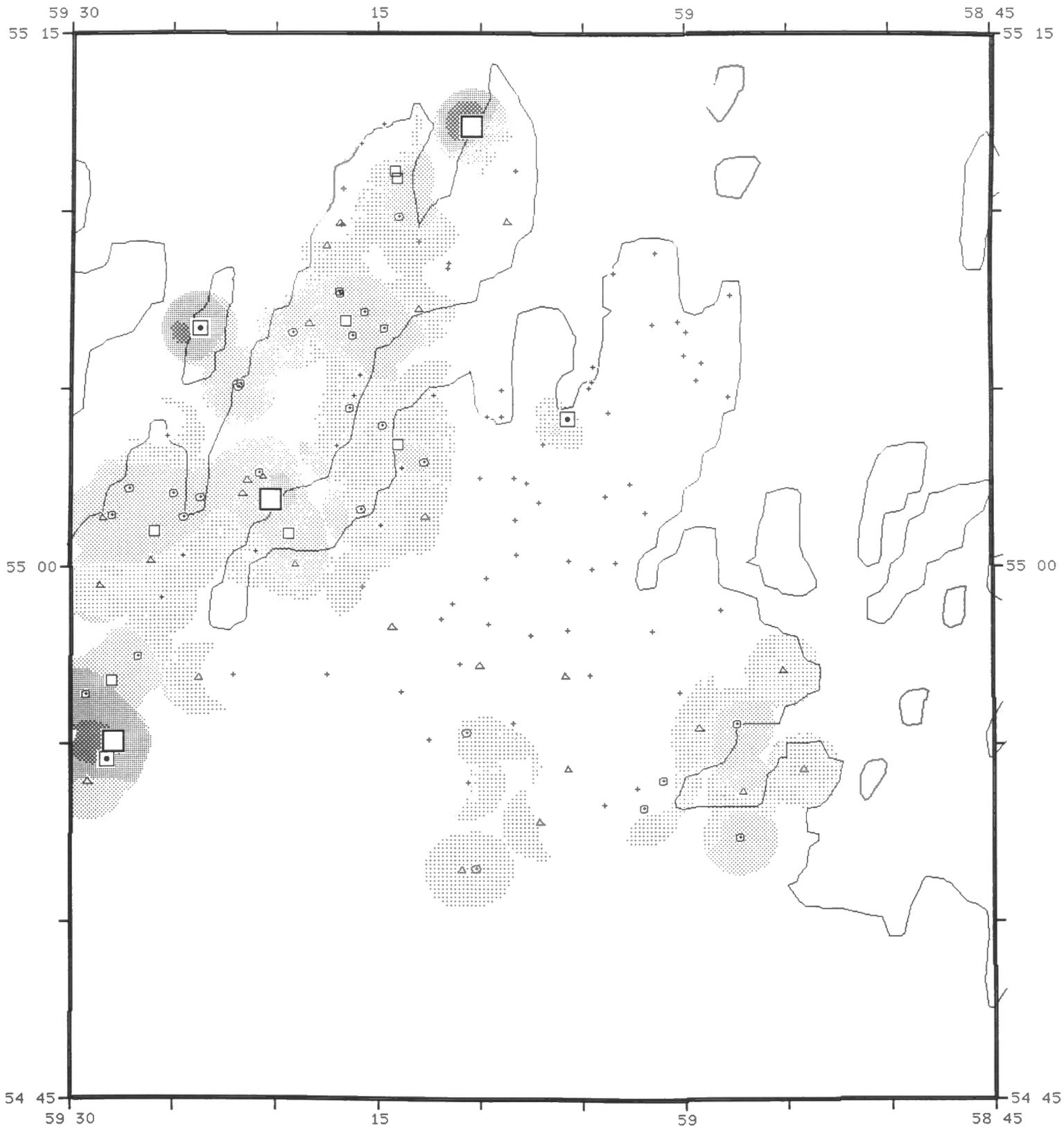
ARSENIC
IN
STREAM SEDIMENTS

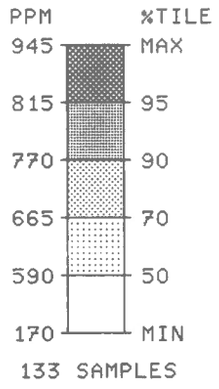
PPM %TILE
13.0 - MAX
7.0 - 98
6.0 - 95
4.0 - 90
3.0 - 80
2.0 - 70
0.5 - MIN
133 SAMPLES

0 20
KILOMETRES

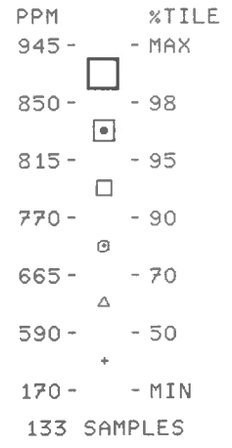
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



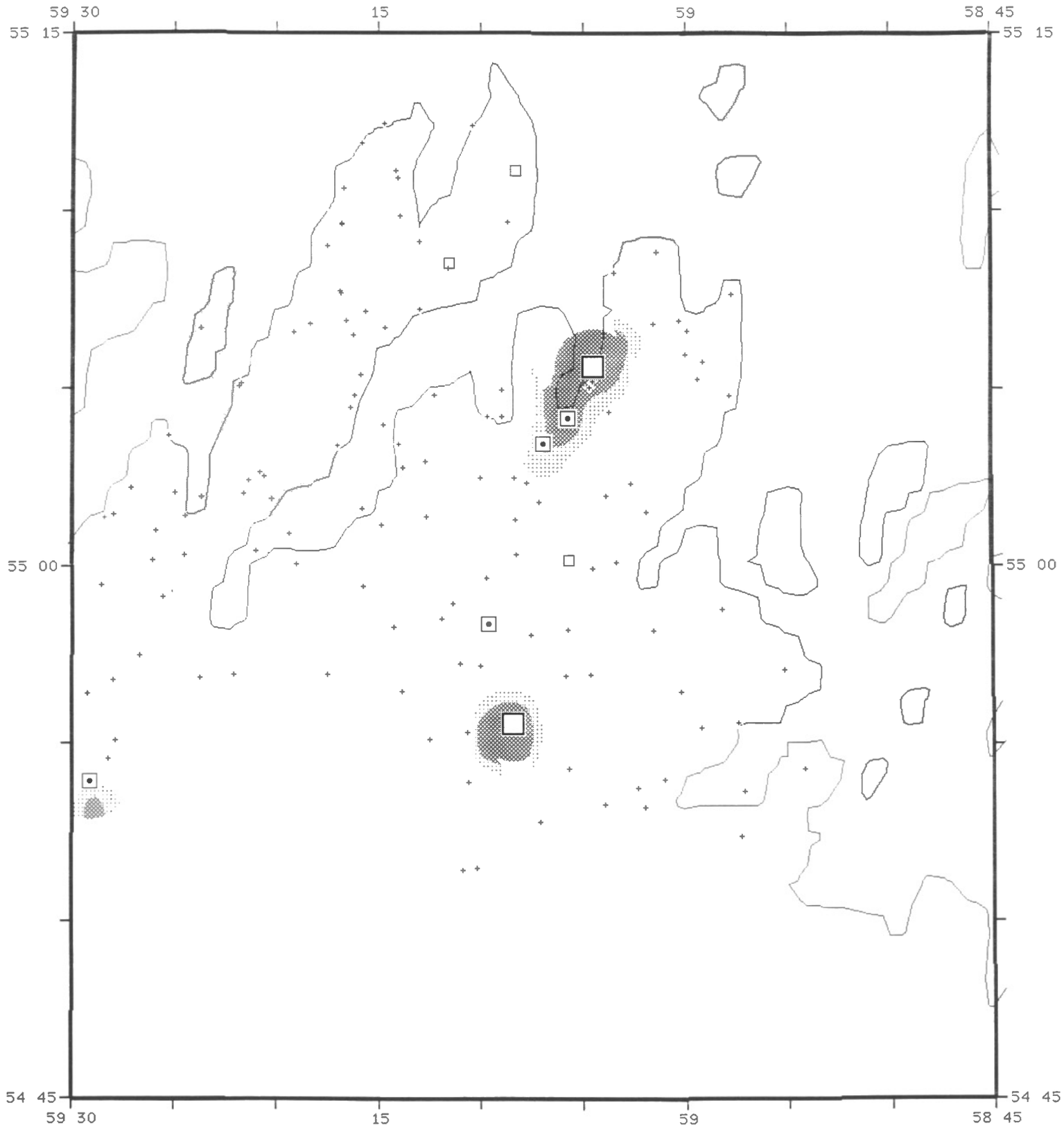


BARIUM
IN
STREAM SEDIMENTS



GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



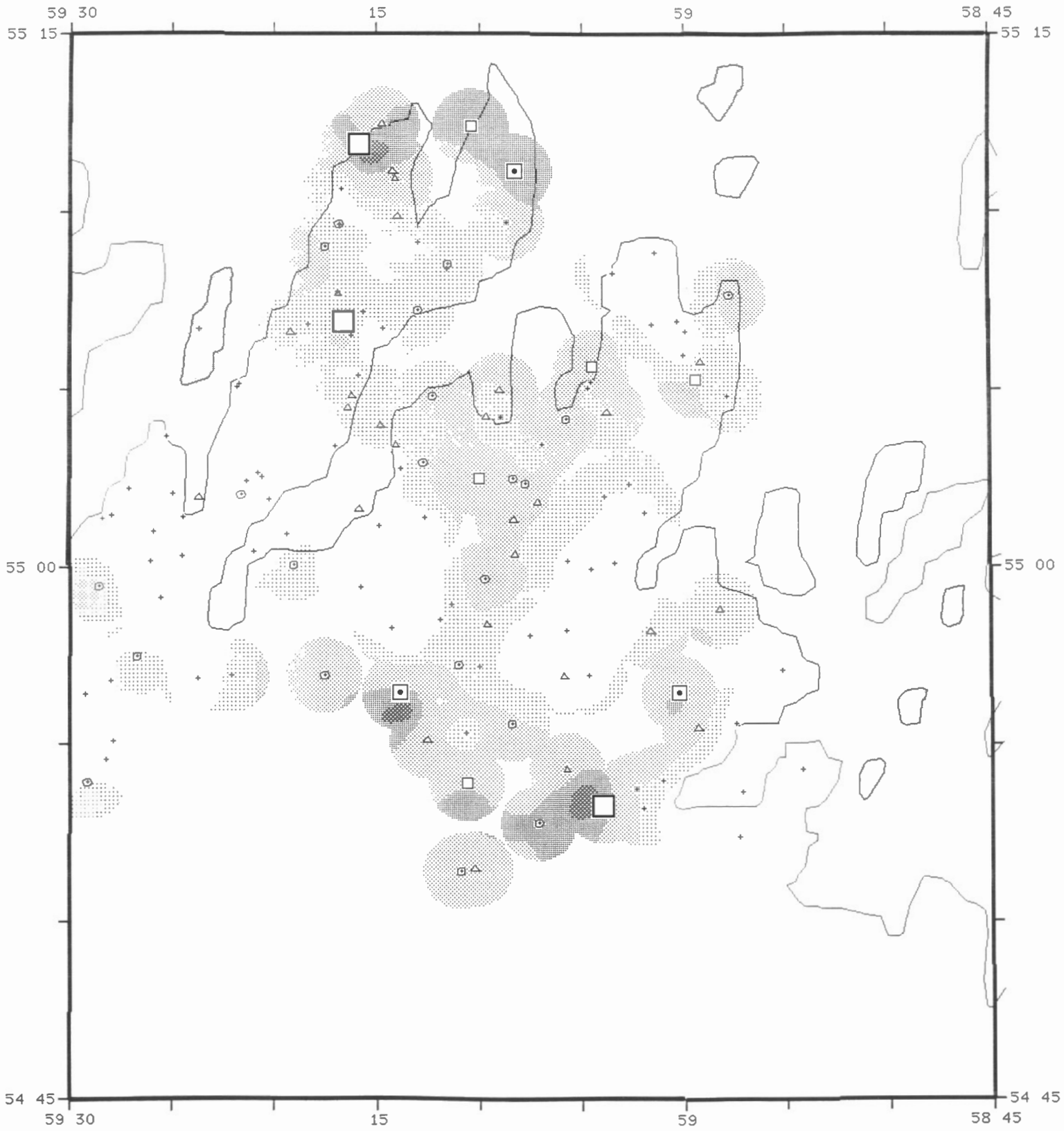
PPM %TILE
1.3 MAX
0.5 95
0.4 90
0.1 MIN
133 SAMPLES

CADMIUM
IN
STREAM SEDIMENTS

PPM %TILE
1.3 - MAX
0.7 - 98
0.5 - 95
0.4 - 90
0.1 - MIN
133 SAMPLES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



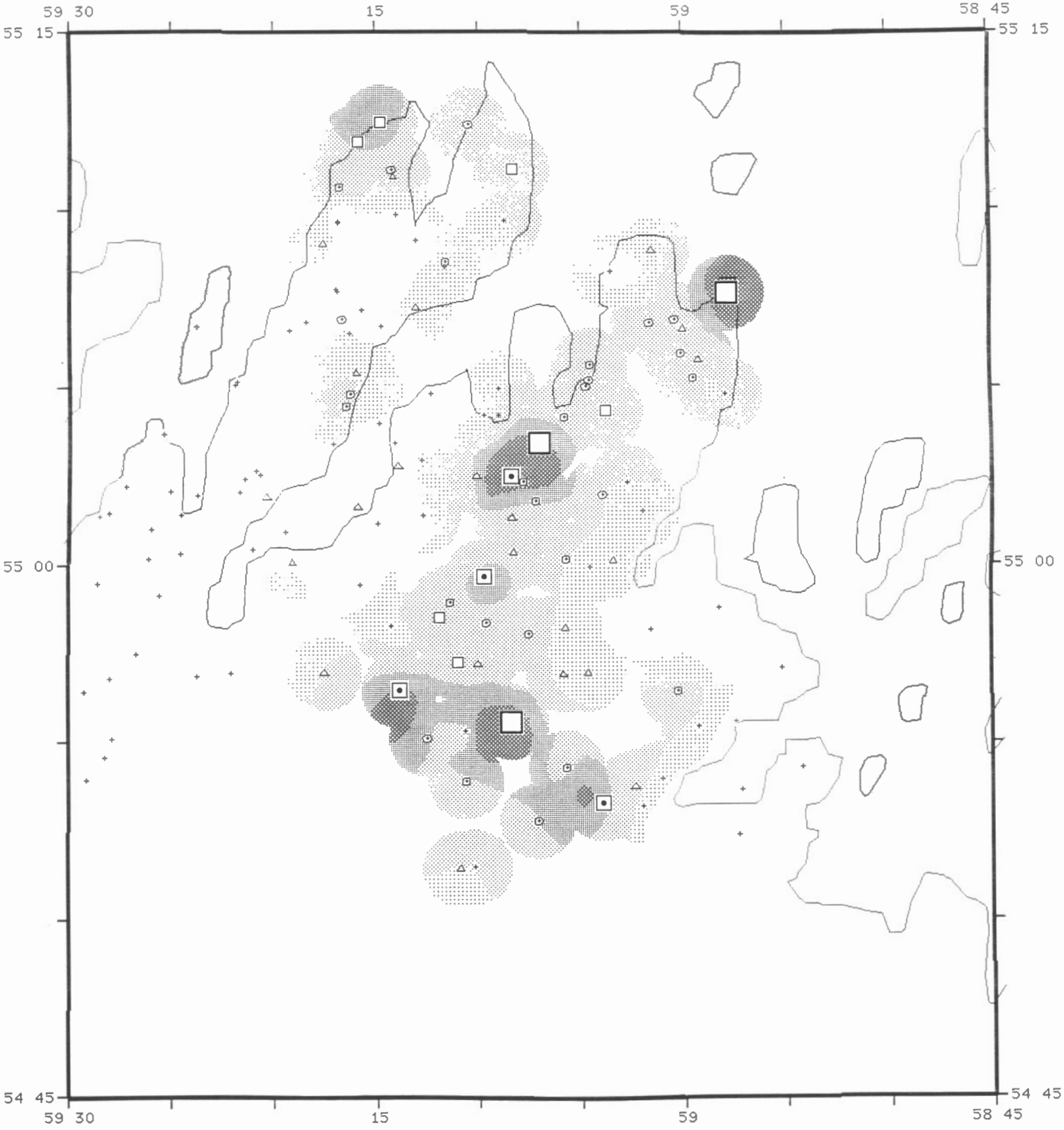
PPM %TILE
27 MAX
15 95
12 90
7 70
5 50
1 MIN
133 SAMPLES

COBALT
IN
STREAM SEDIMENTS

PPM %TILE
27 - MAX
21 - 98
15 - 95
12 - 90
7 - 70
5 - 50
1 - MIN
133 SAMPLES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PPM %TILE
60 MAX
24 95
18 90
10 70
7 50
2 MIN
133 SAMPLES

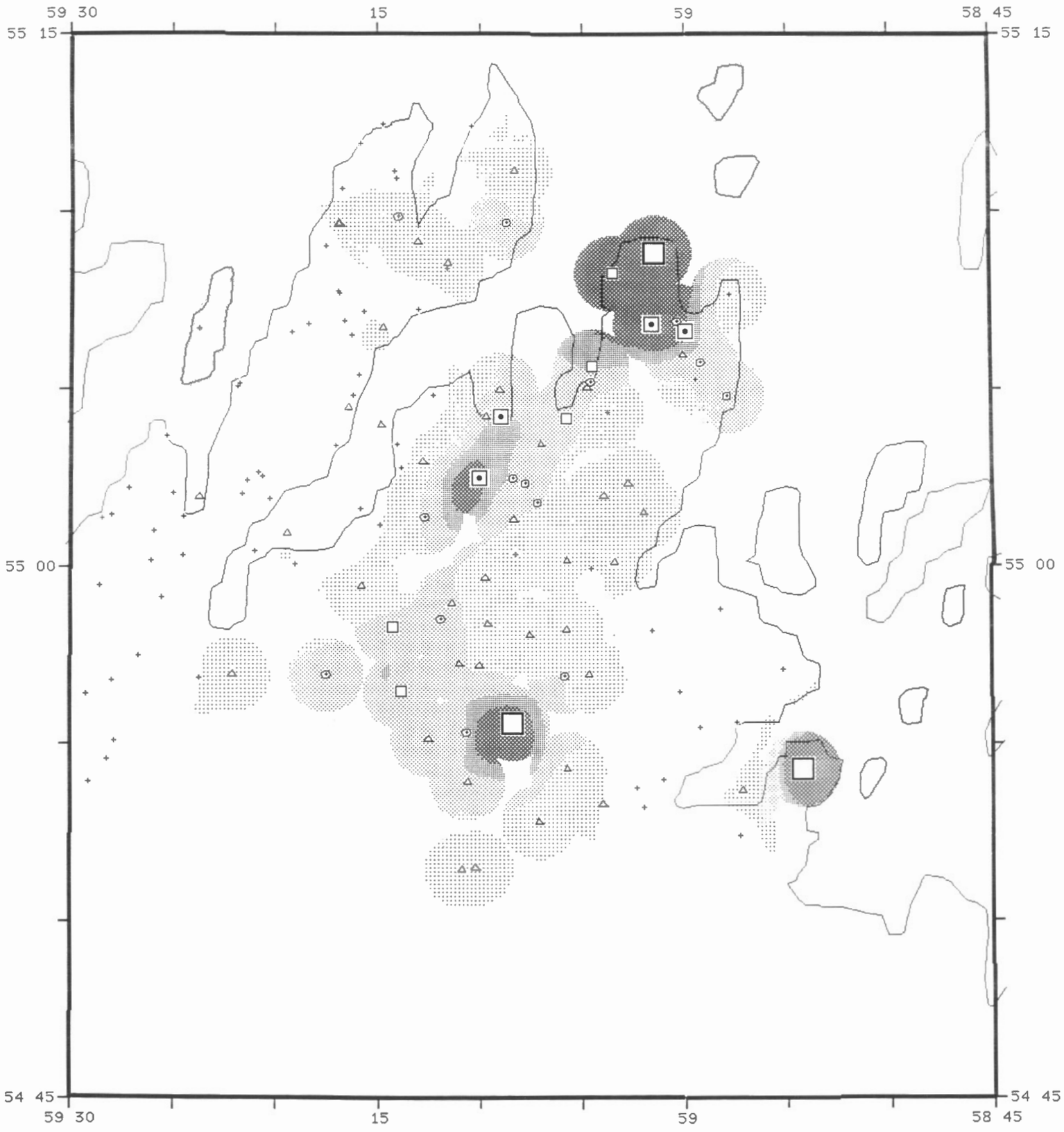
COPPER
IN
STREAM SEDIMENTS

PPM %TILE
60 - MAX
36 - 98
24 - 95
18 - 90
10 - 70
7 - 50
2 - MIN
133 SAMPLES

0 20
KILOMETRES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PPB %TILE
320 MAX
190 95
170 90
140 80
90 50
20 MIN
133 SAMPLES

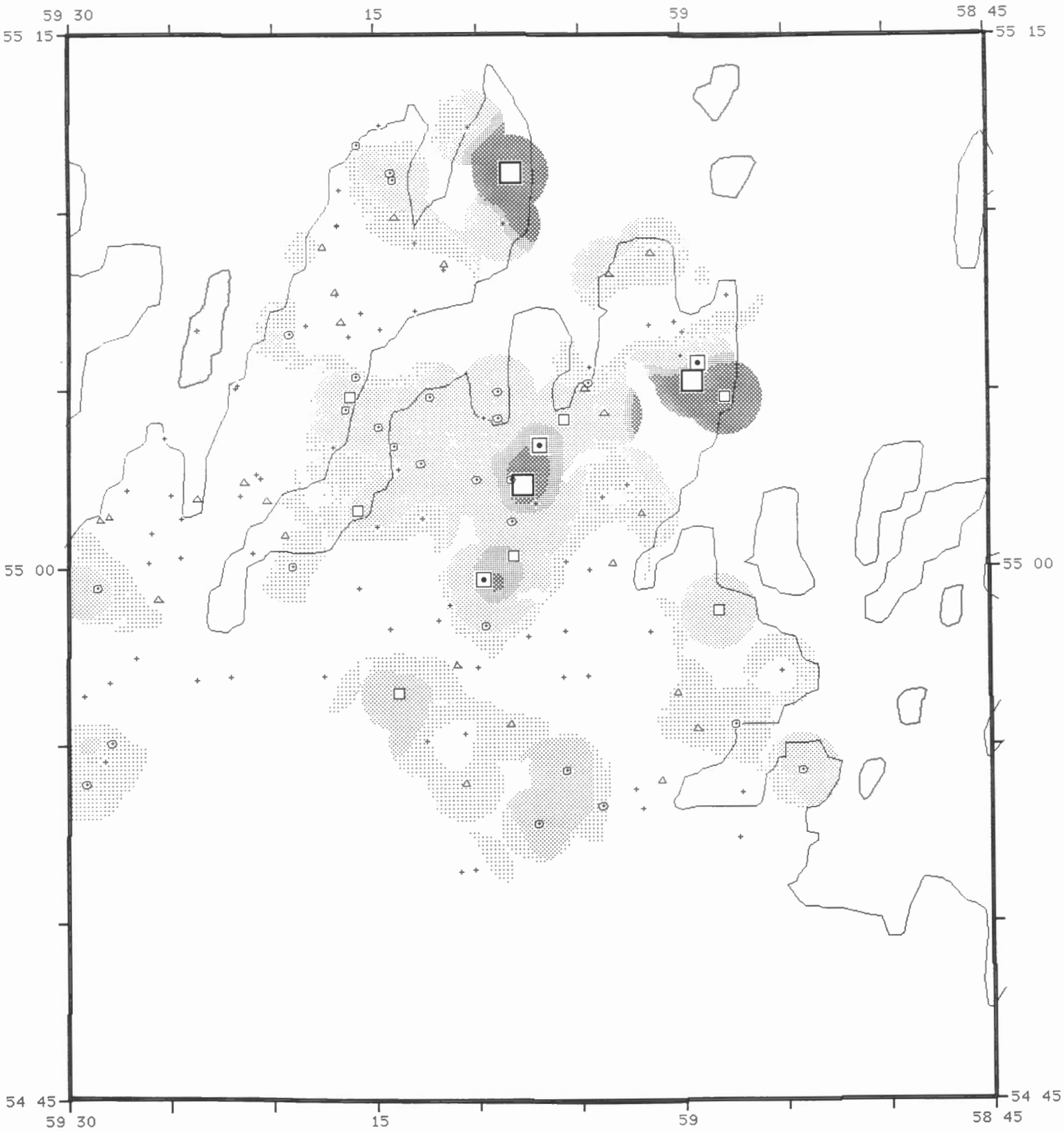
FLUORIDE
IN
STREAM WATERS

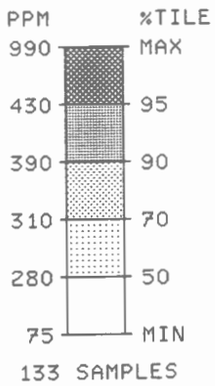
PPB %TILE
320 - MAX
280 - 98
190 - 95
170 - 90
140 - 80
90 - 50
20 - MIN
133 SAMPLES

0 20
KILOMETRES

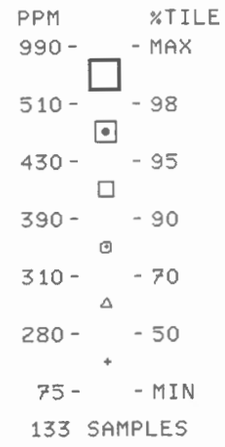
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)





FLUORINE
IN
STREAM SEDIMENTS



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NEWFOUNDLAND 1988
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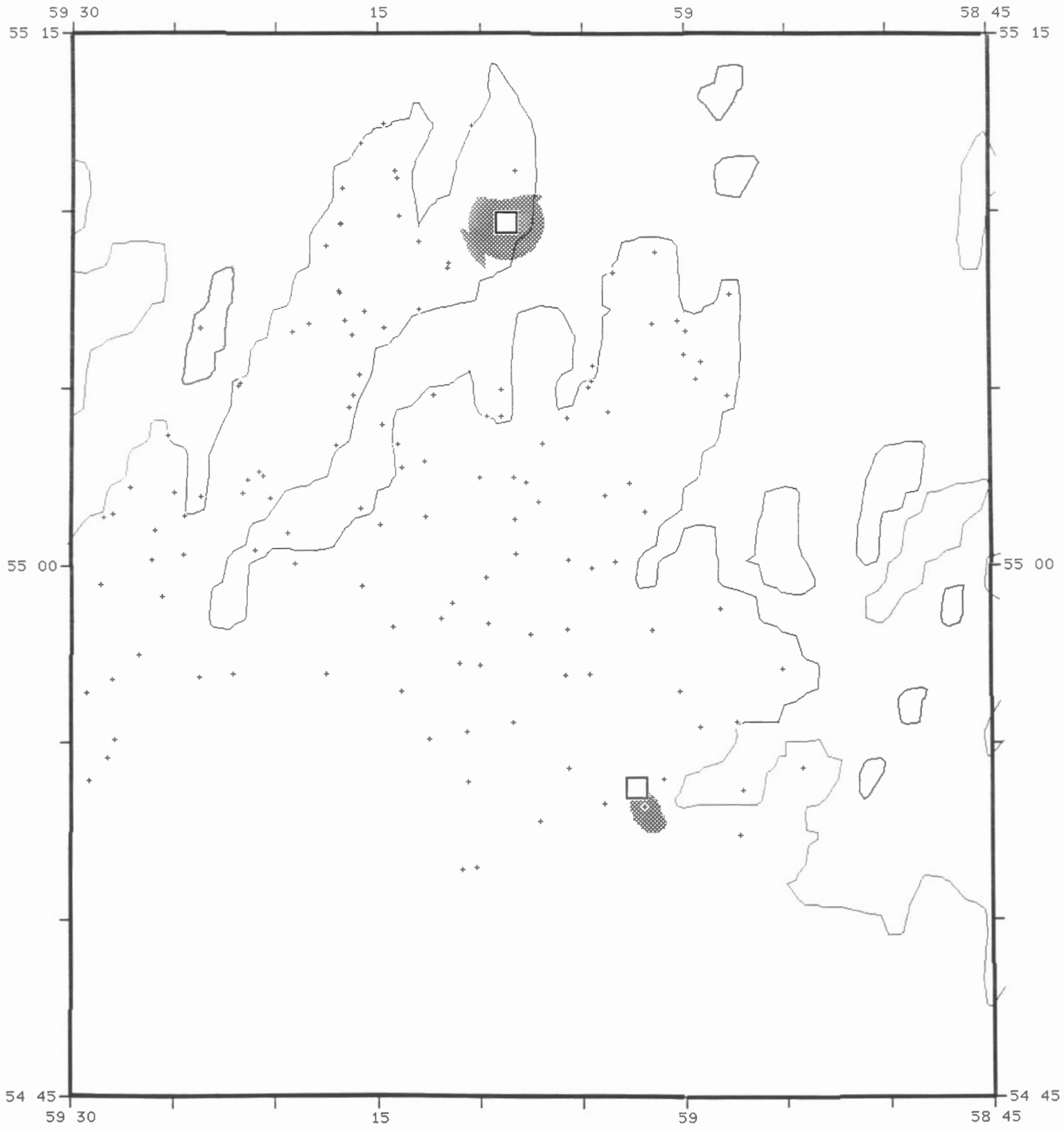


GOLD
IN
STREAM SEDIMENTS

PPB	%TILE
2.0	MAX
0.9	98
0.5	MIN

133 SAMPLES

PPB	%TILE
2.0	MAX
0.9	98
0.5	MIN

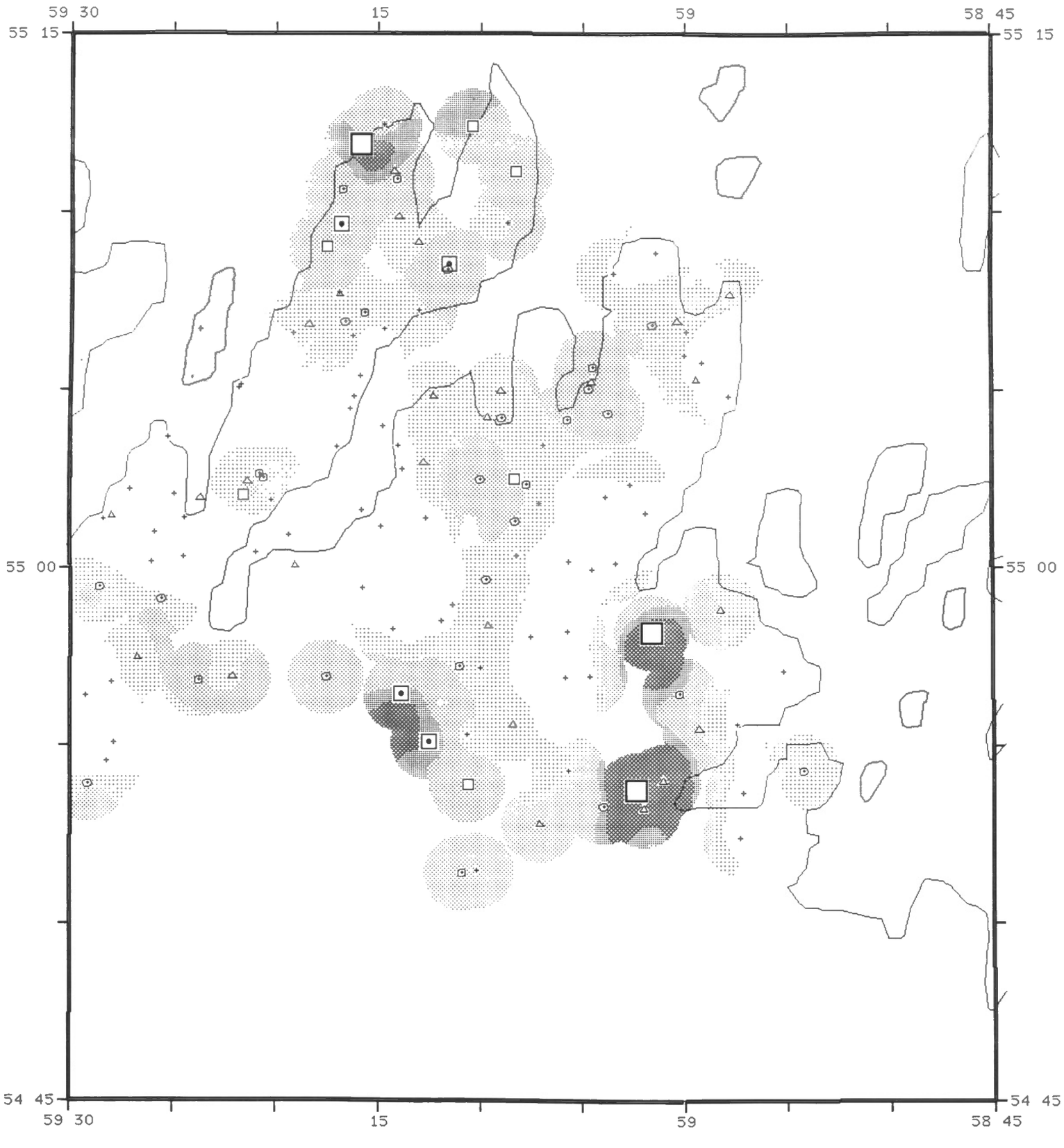
133 SAMPLES

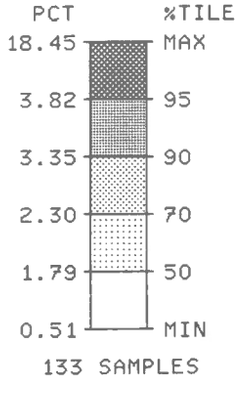
0 20

KILOMETRES

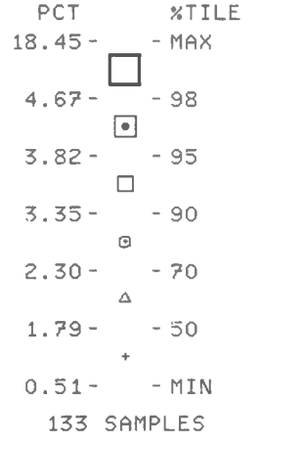
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)





IRON
IN
STREAM SEDIMENTS



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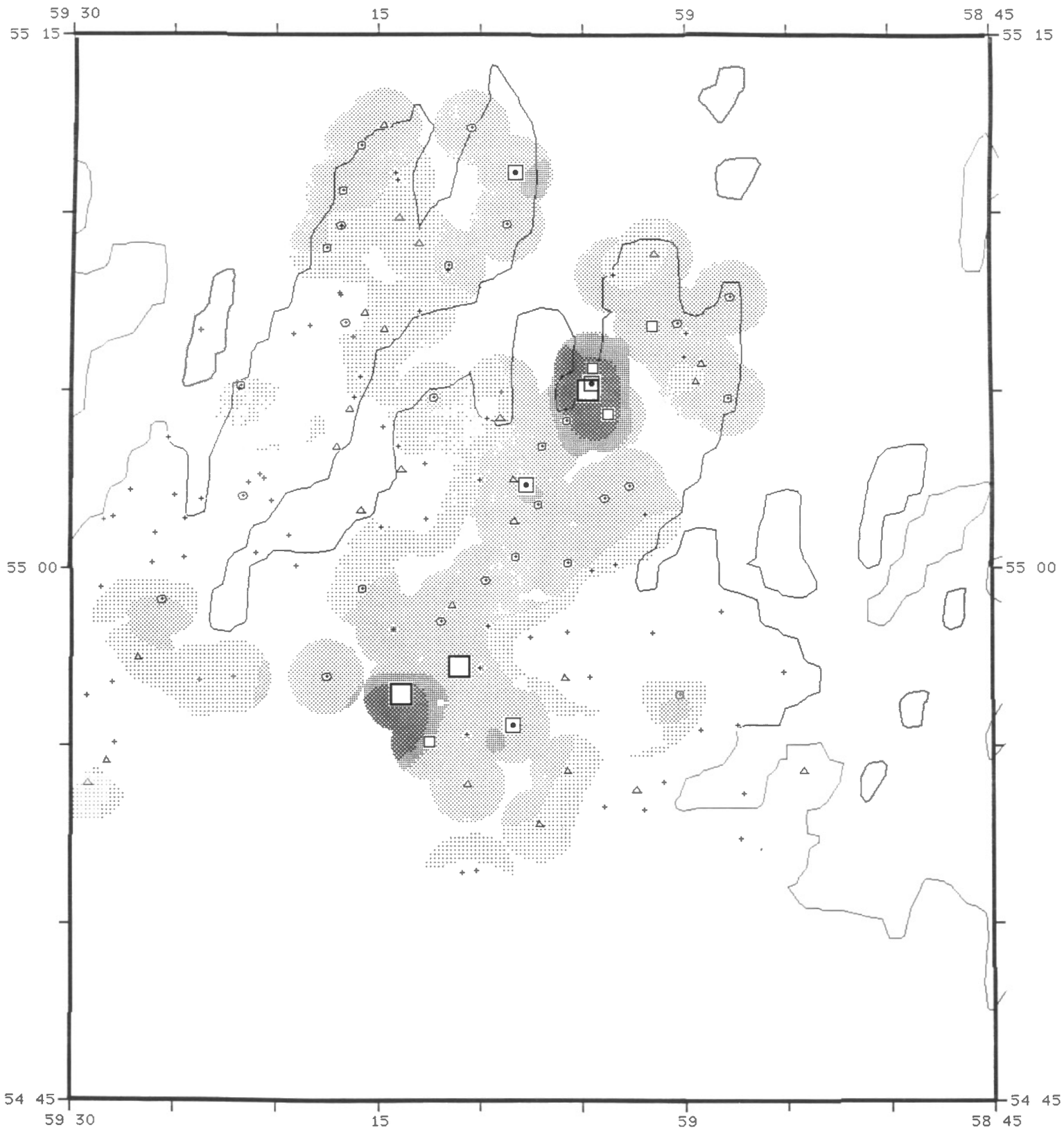
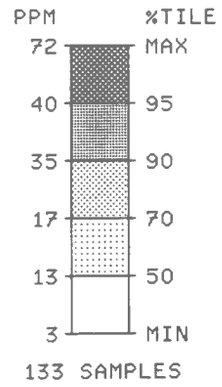
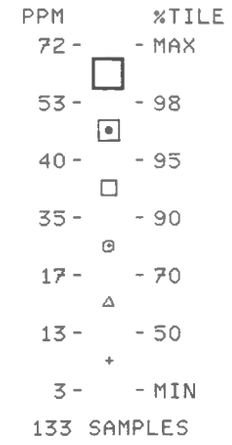
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)





LEAD
IN
STREAM SEDIMENTS



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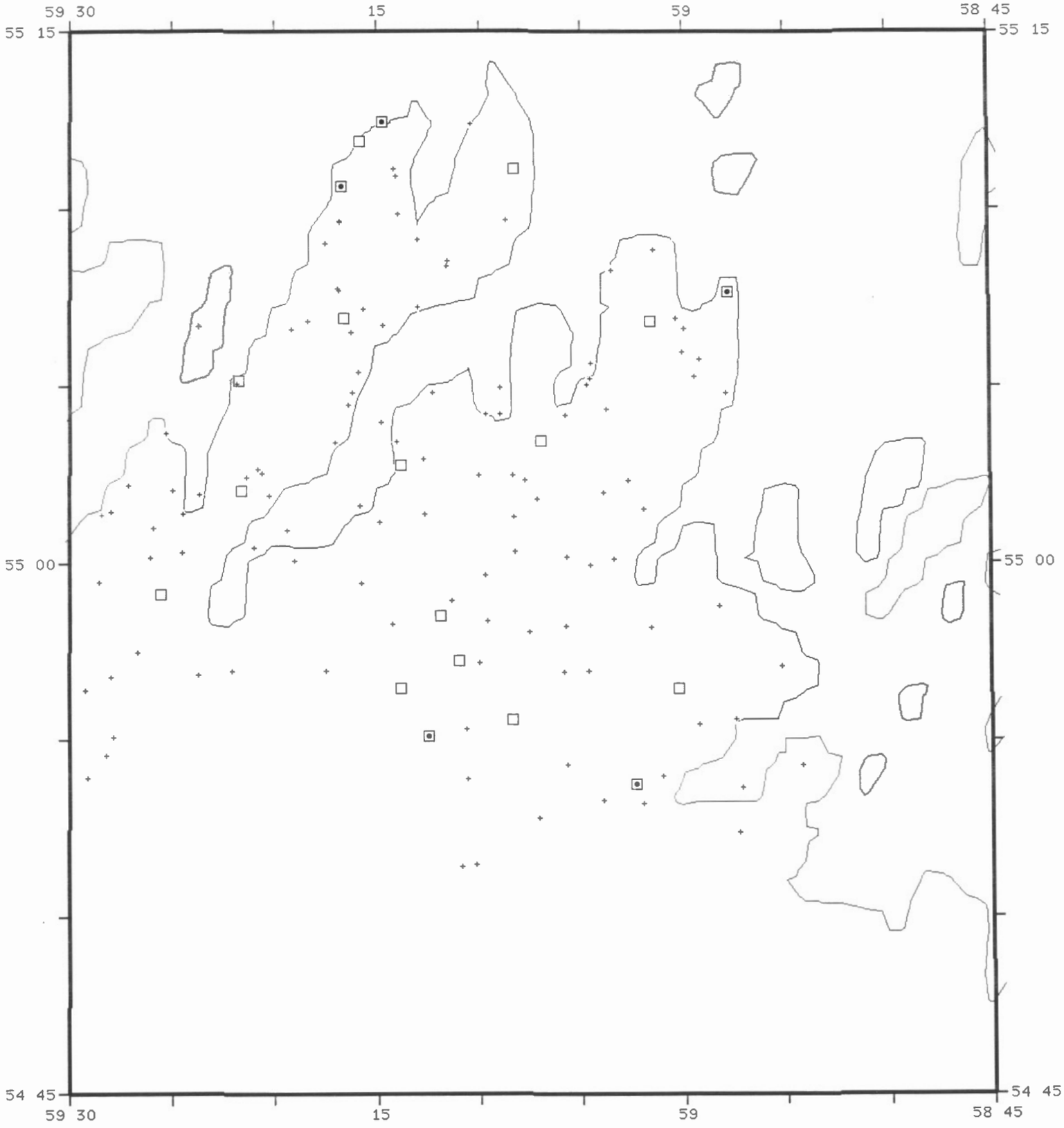
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



LOSS ON IGNITION
IN
STREAM SEDIMENTS

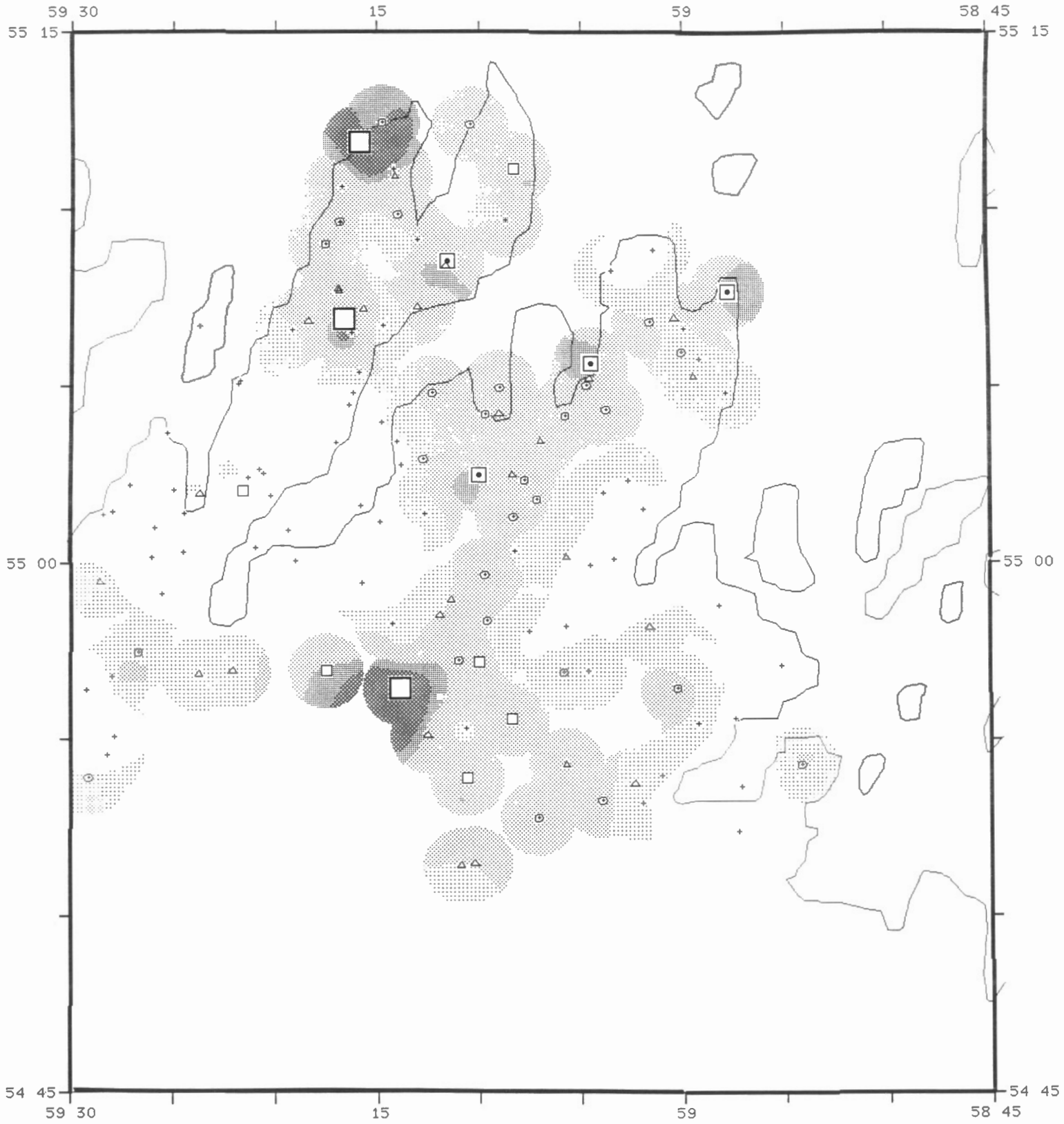
PCT	%TILE
68.2	MAX
30.0	96
15.0	84
0.5	MIN

133 SAMPLES

0 20
KILOMETRES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



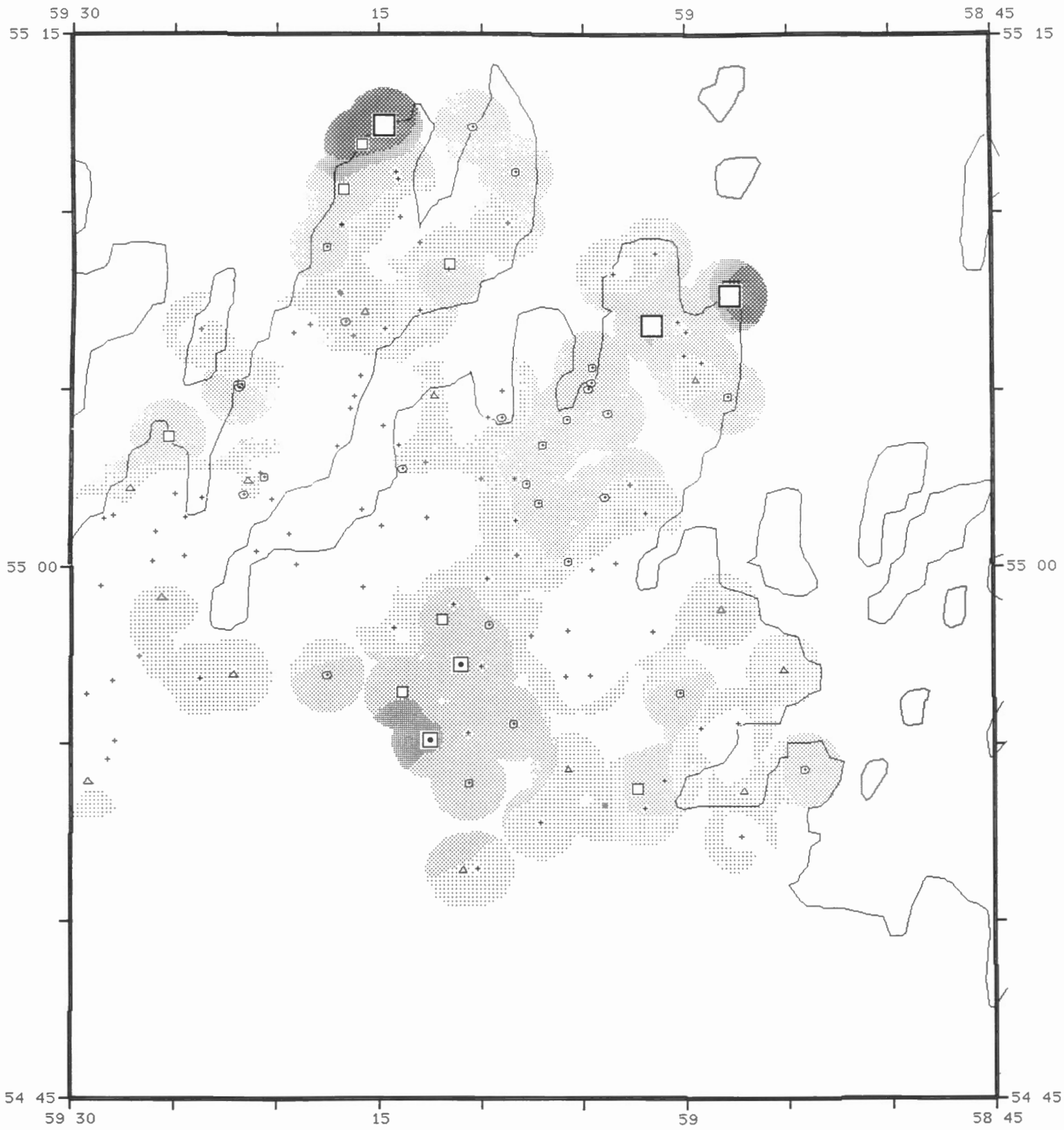
PPM %TILE
3542 MAX
919 95
760 90
406 70
243 50
35 MIN
133 SAMPLES

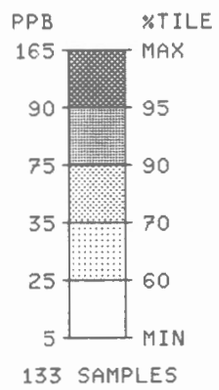
MANGANESE
IN
STREAM SEDIMENTS

PPM %TILE
3542 - MAX
1938 - 98
919 - 95
760 - 90
406 - 70
243 - 50
35 - MIN
133 SAMPLES

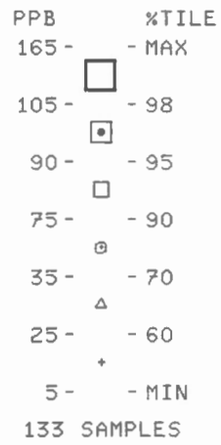
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)





MERCURY
IN
STREAM SEDIMENTS



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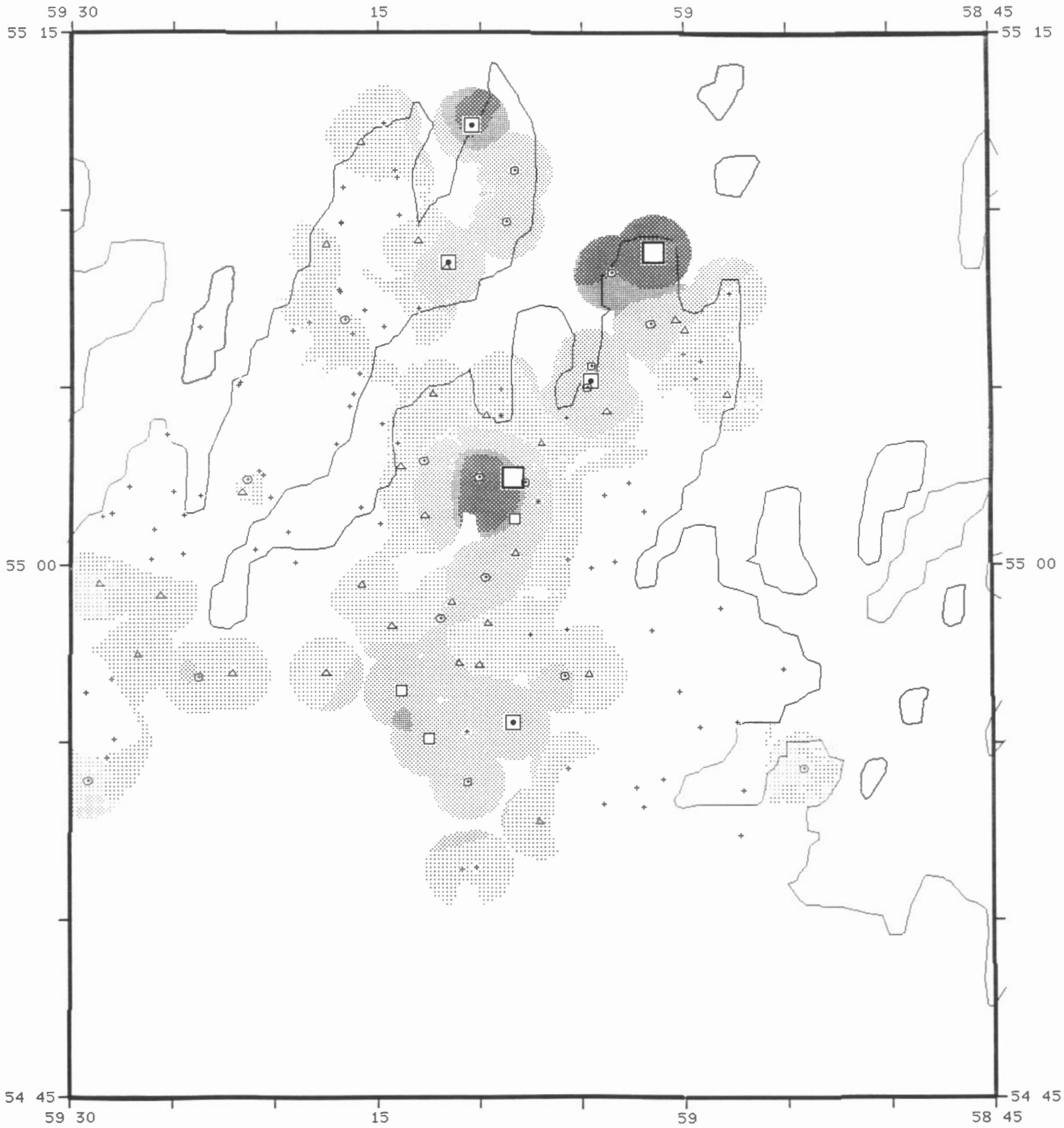
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PPM %TILE
51 MAX
15 95
13 90
5 80
2 50
1 MIN
133 SAMPLES

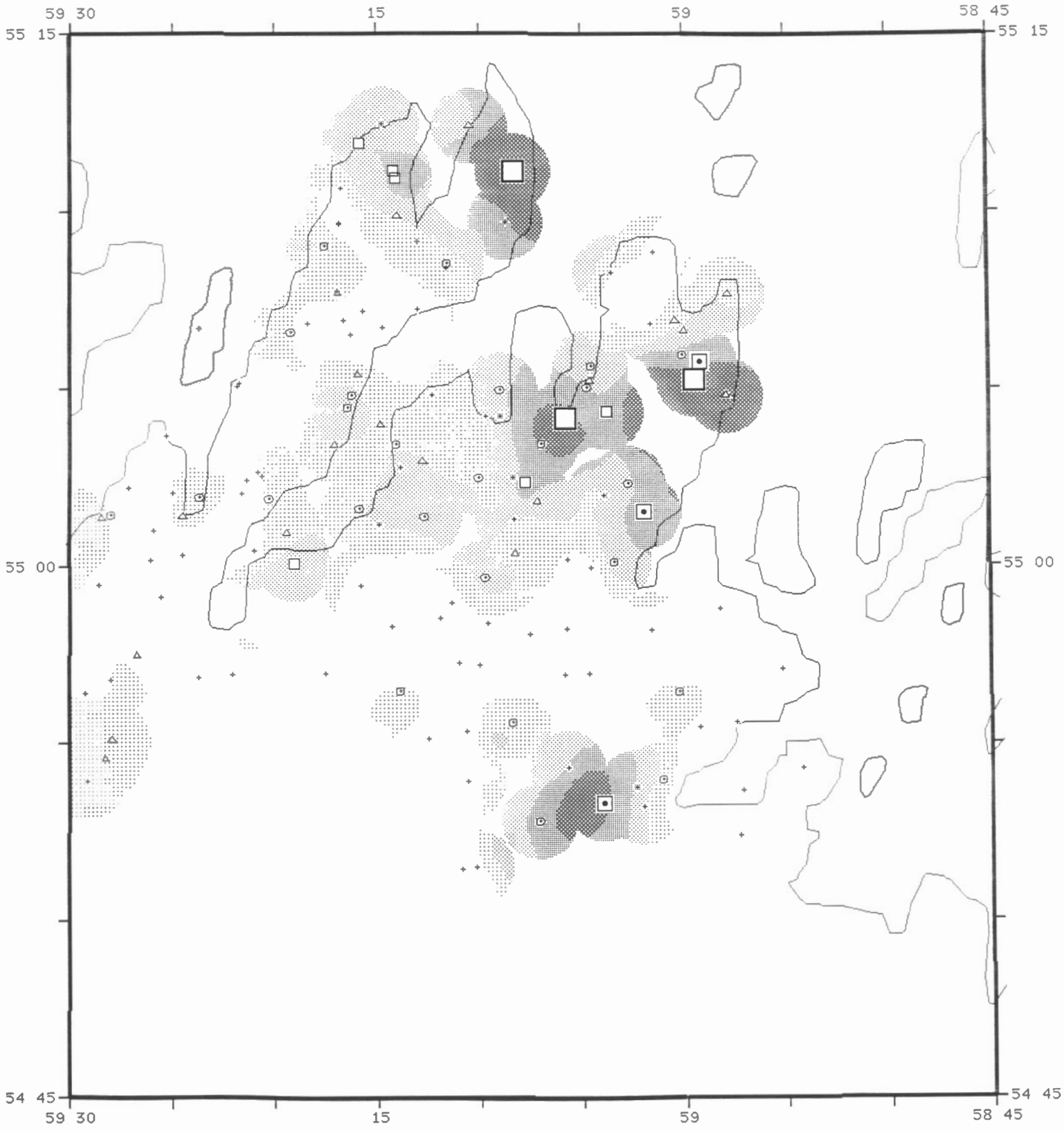
MOLYBDENUM
IN
STREAM SEDIMENTS

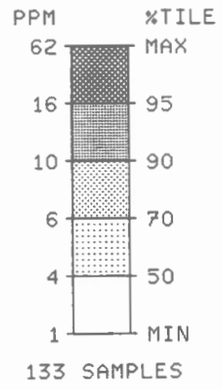
PPM %TILE
51 - MAX
19 - 98
15 - 95
13 - 90
5 - 80
2 - 50
1 - MIN
133 SAMPLES

0 20
KILOMETRES

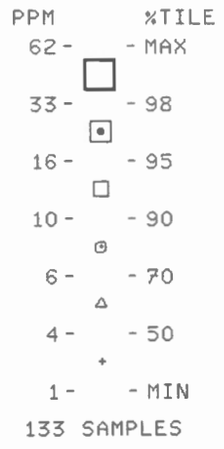
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



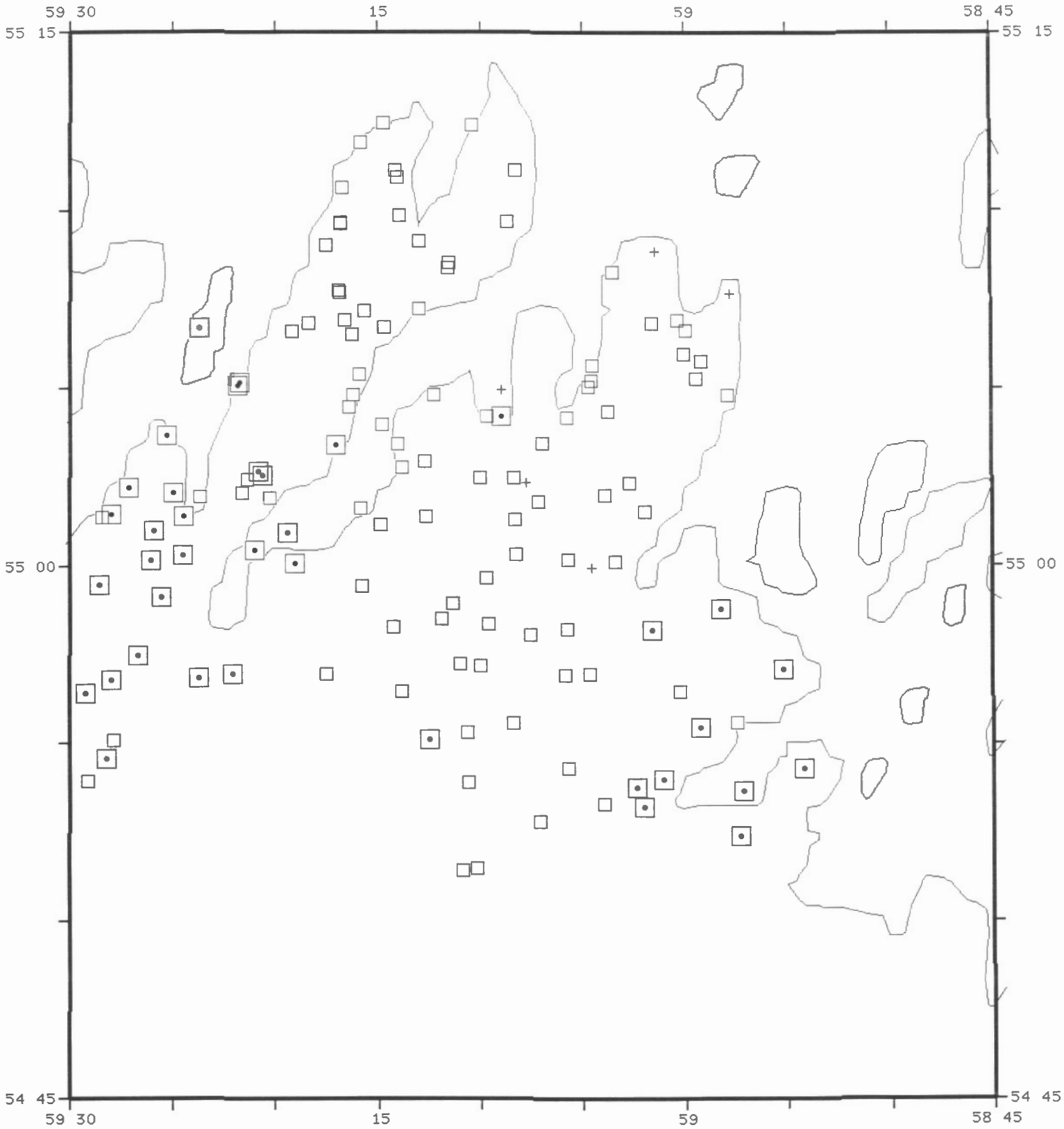


NICKEL
IN
STREAM SEDIMENTS



GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PH
IN
STREAM WATERS

	%TILE
7.3	MAX
+	
6.5	95
□	
5.5	25
⊡	
4.4	MIN

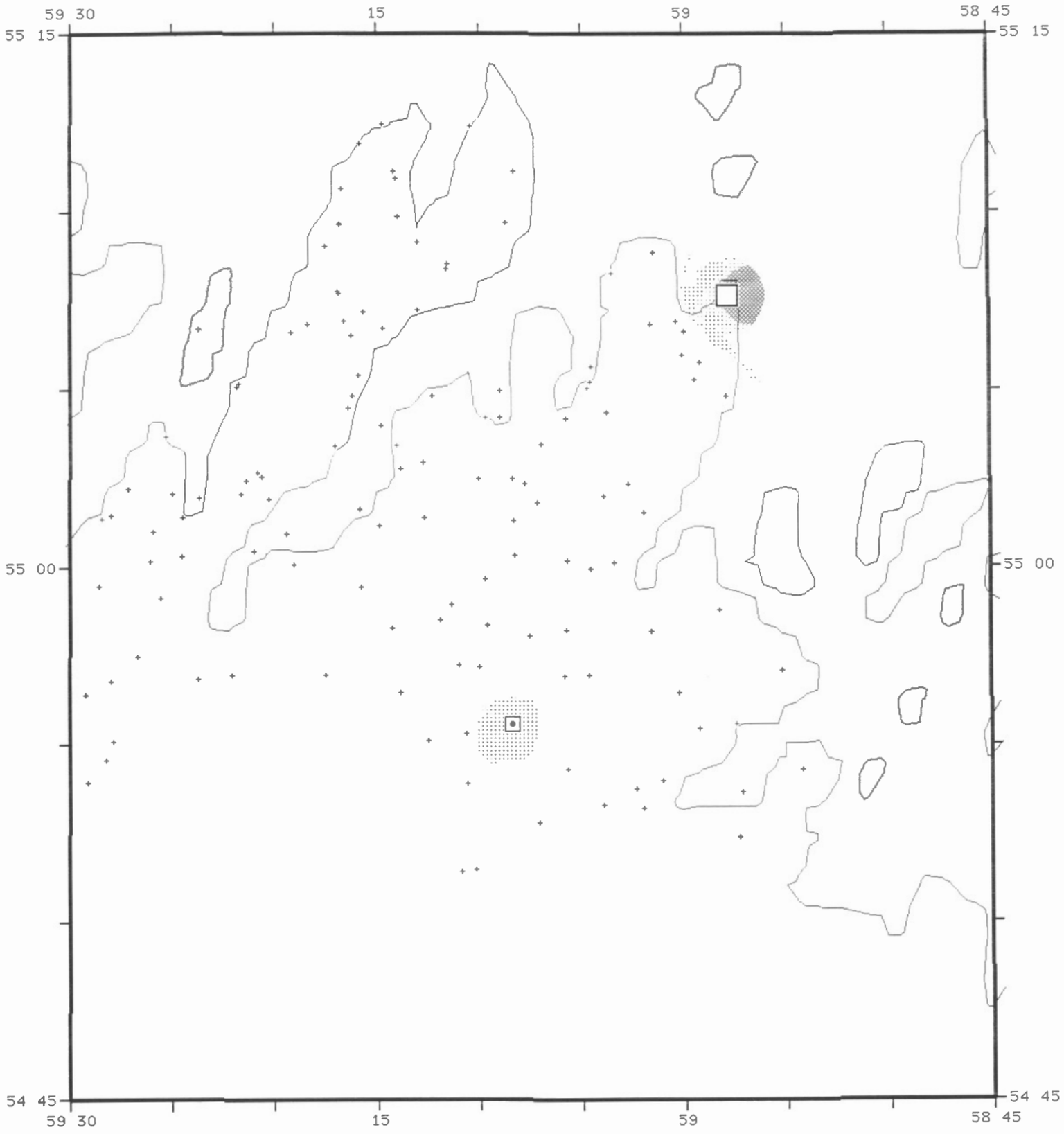
133 SAMPLES

0 20

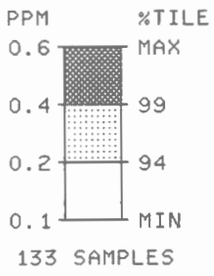
KILOMETRES

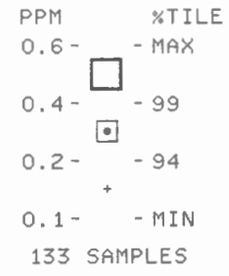
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



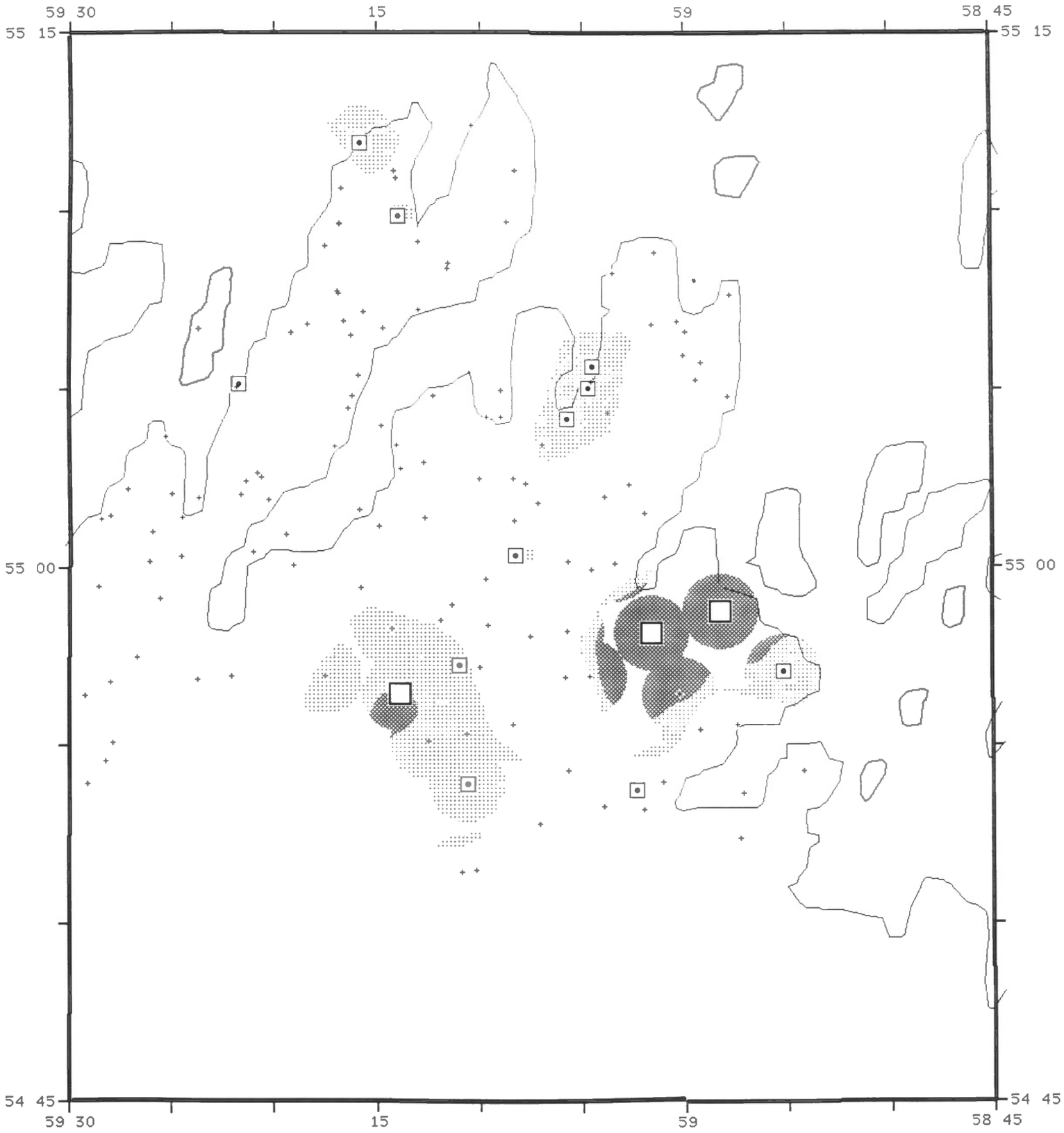
SILVER
IN
STREAM SEDIMENTS



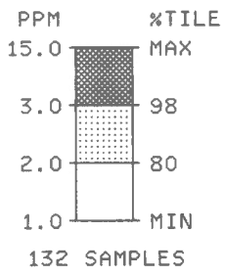


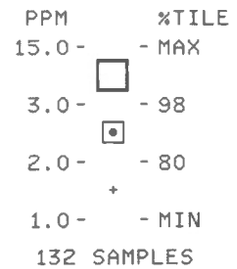
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



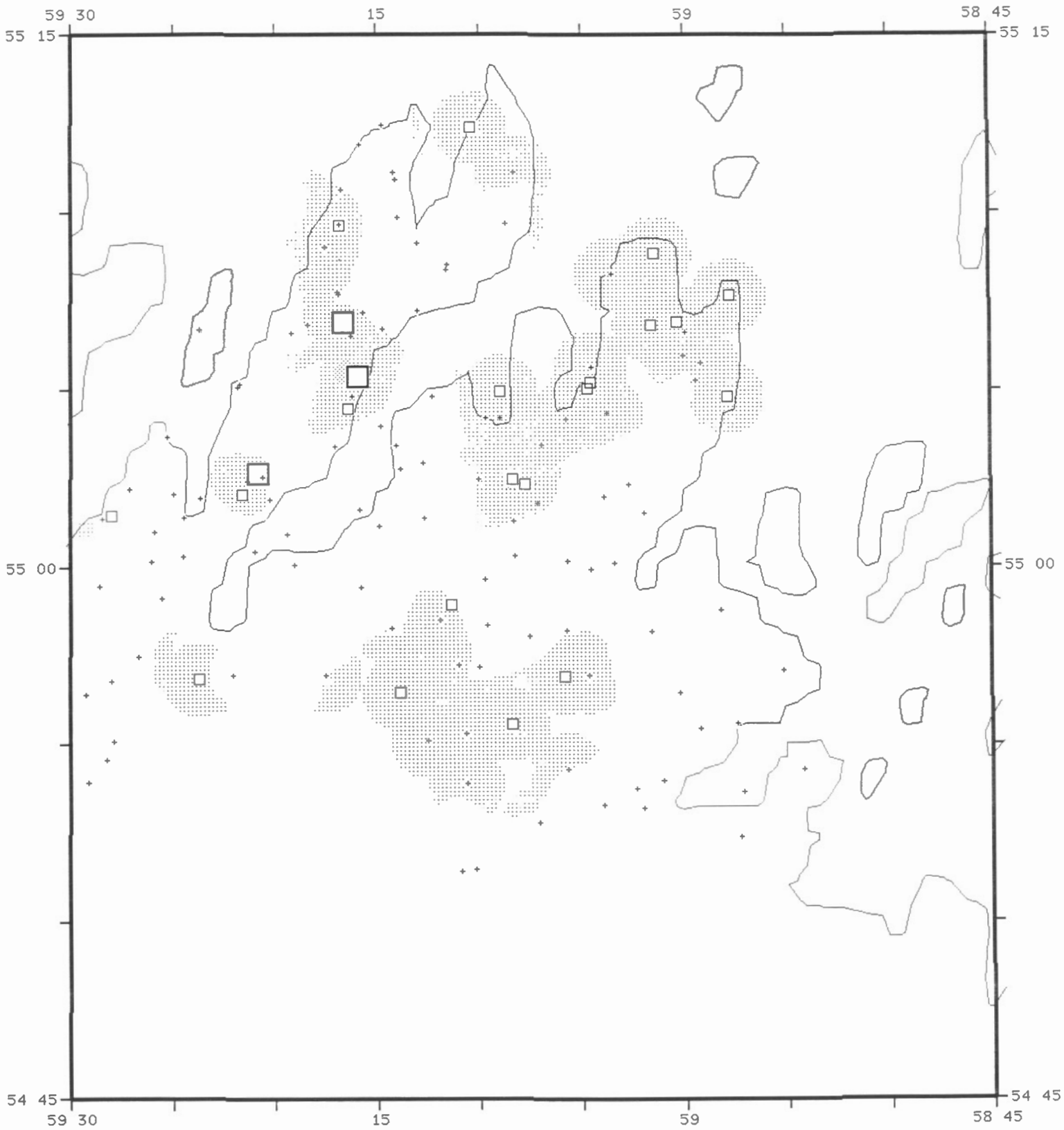
TIN
IN
STREAM SEDIMENTS



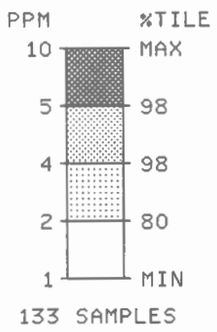


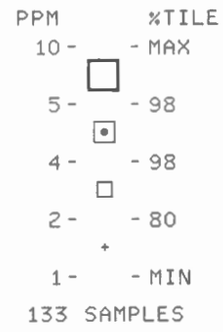
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



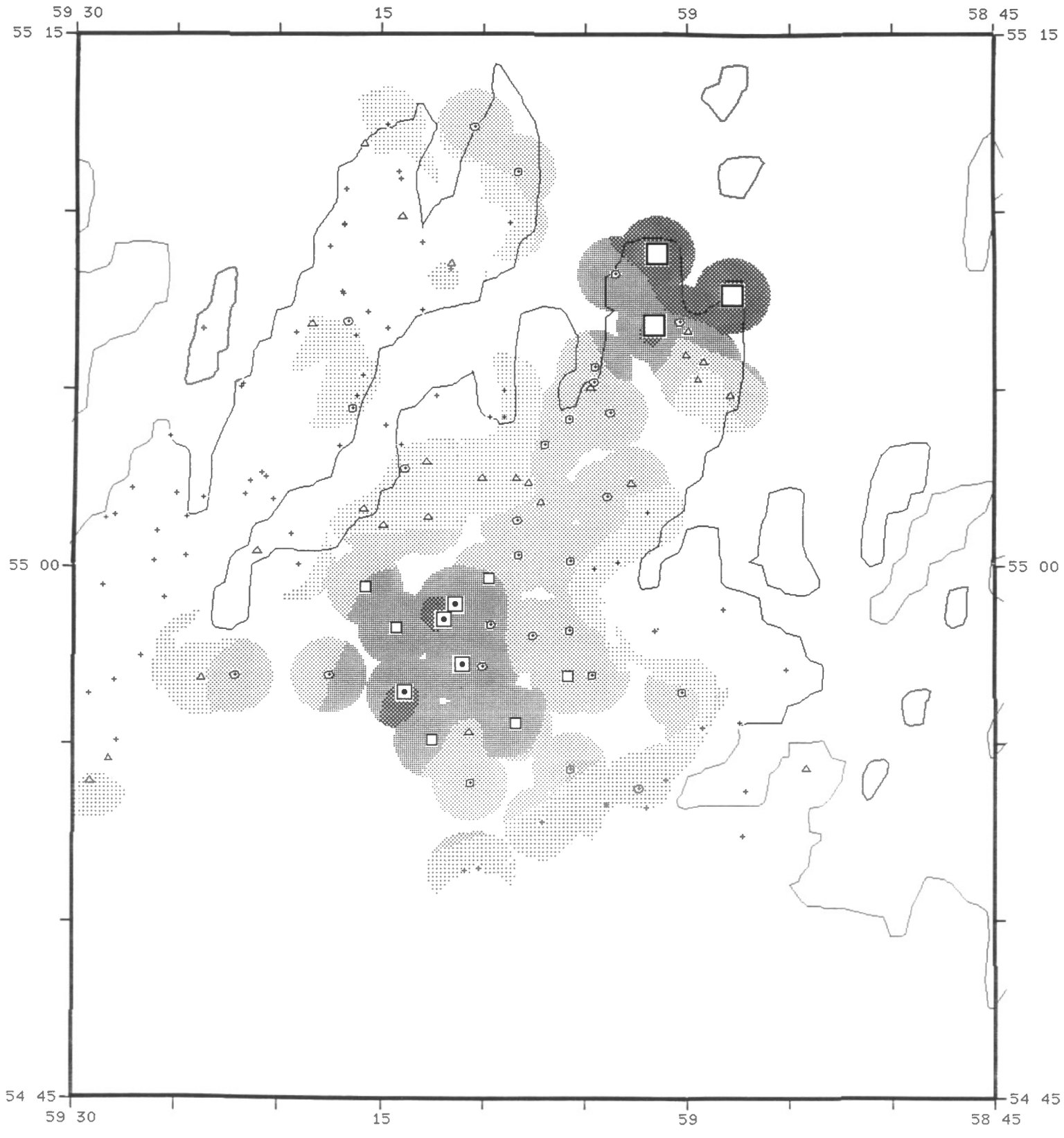
TUNGSTEN
IN
STREAM SEDIMENTS





GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PPM %TILE
128.0 MAX
46.6 95
26.6 90
11.8 70
7.0 50
1.4 MIN
133 SAMPLES

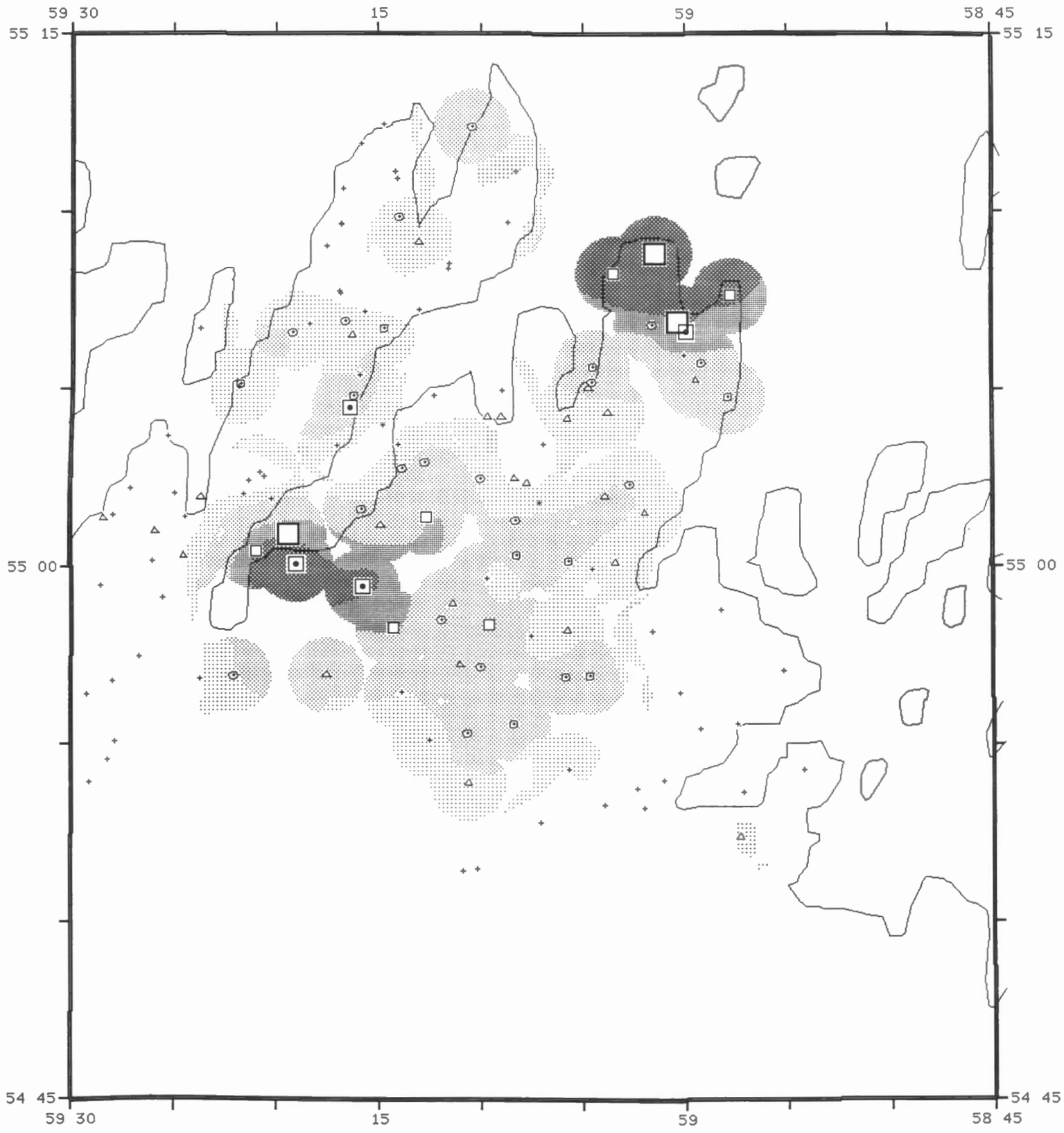
URANIUM
IN
STREAM SEDIMENTS

PPM %TILE
128.0 - MAX
63.5 - 98
46.6 - 95
26.6 - 90
11.8 - 70
7.0 - 50
1.4 - MIN
133 SAMPLES

0 20
KILOMETRES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



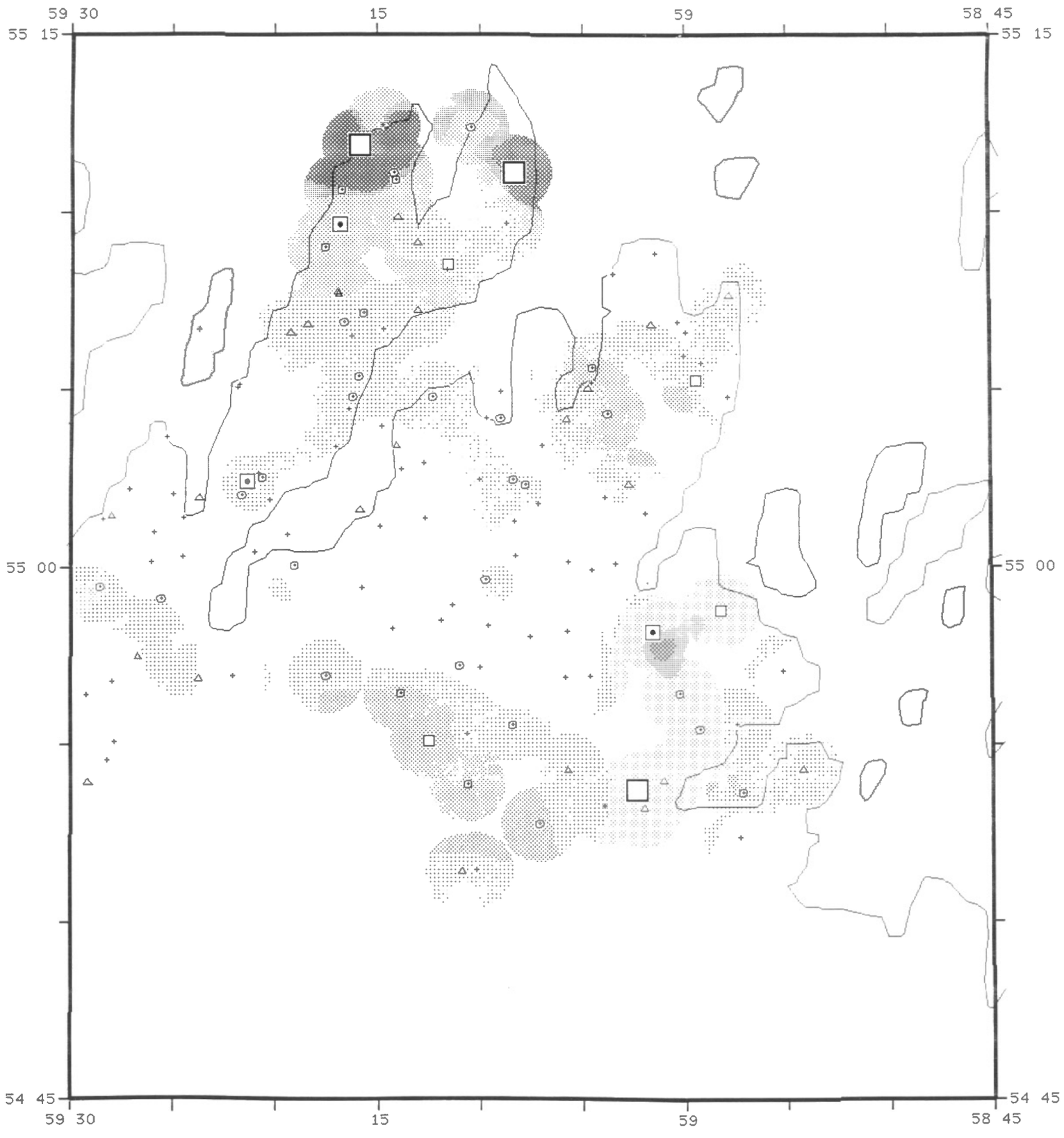
PPB %TILE
5.00 MAX
1.75 95
1.25 90
0.54 70
0.30 50
0.03 MIN
133 SAMPLES

URANIUM
IN
STREAM WATERS

PPB %TILE
5.00 - MAX
2.19 - 98
1.75 - 95
1.25 - 90
0.54 - 70
0.30 - 50
0.03 - MIN
133 SAMPLES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



VANADIUM
IN
STREAM SEDIMENTS

PPM	%TILE
82	MAX
38	95
36	90
26	70
21	50
2	MIN

133 SAMPLES

PPM	%TILE
82	MAX
48	98
38	95
36	90
26	70
21	50
2	MIN

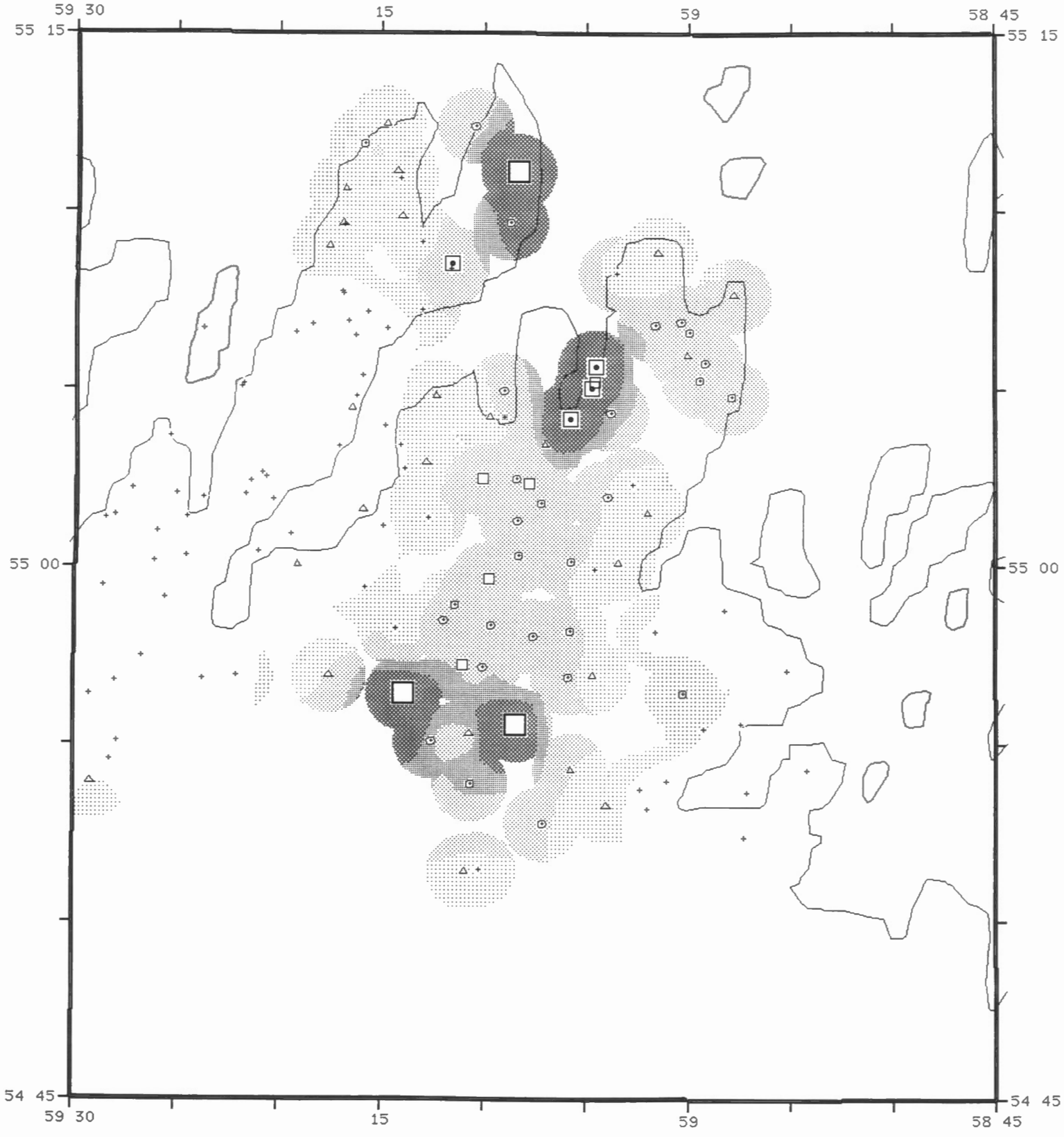
133 SAMPLES

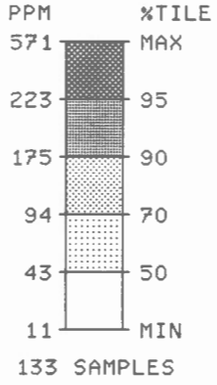
0 20

KILOMETRES

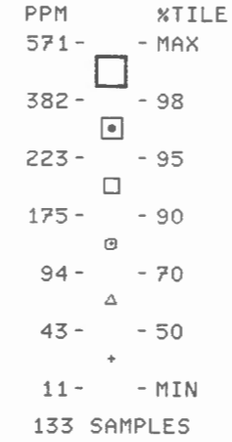
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



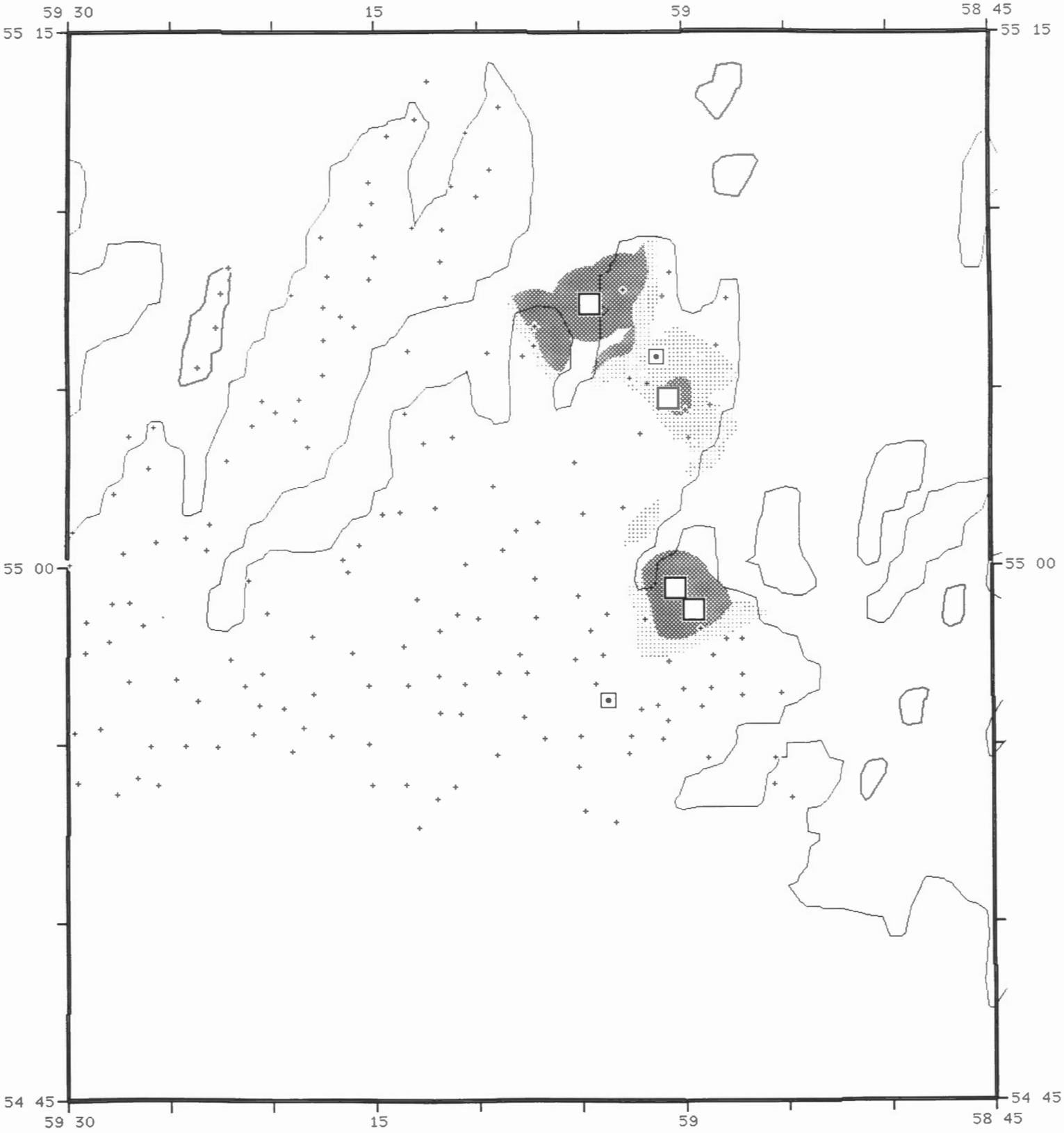


ZINC
IN
STREAM SEDIMENTS

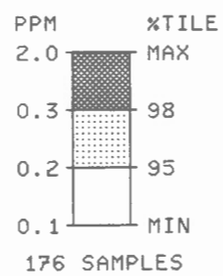


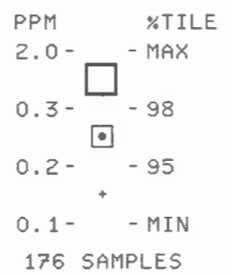
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



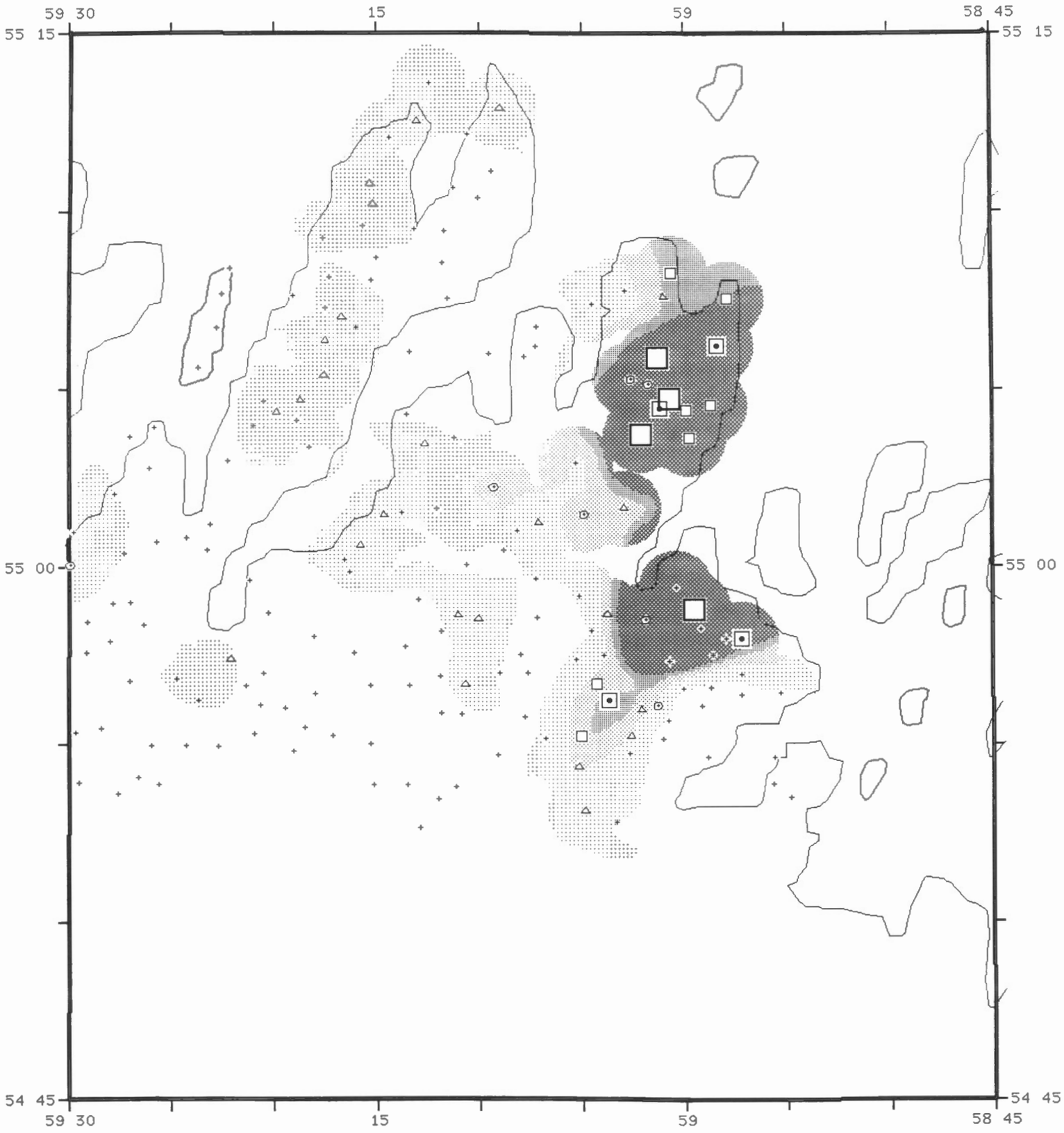
ANTIMONY
IN
LAKE SEDIMENTS

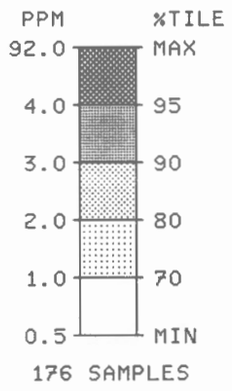




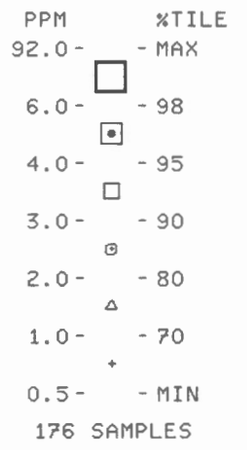
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



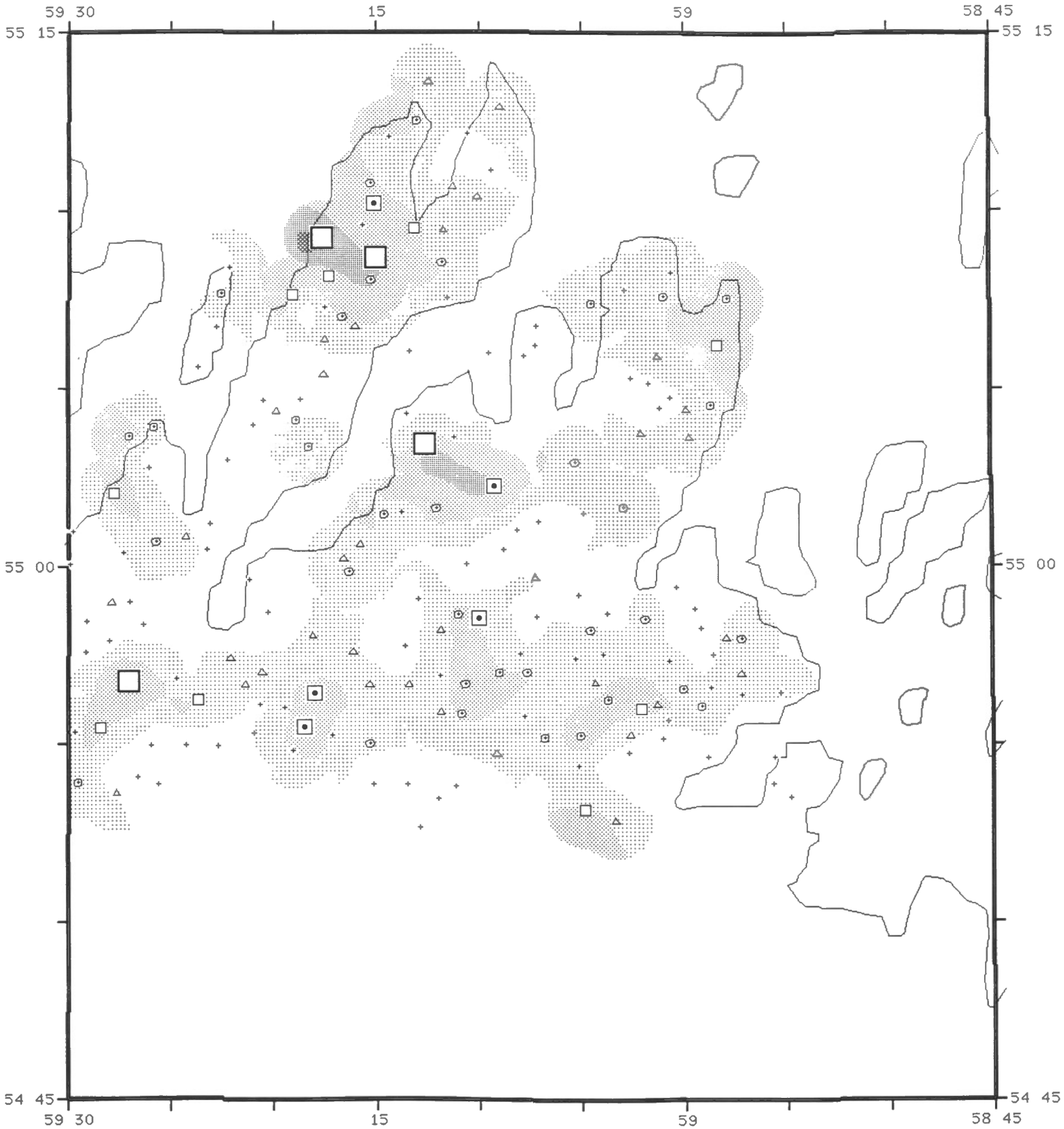


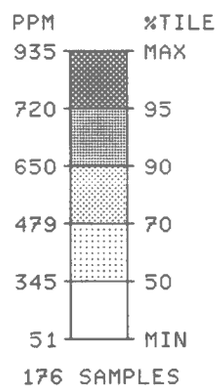
ARSENIC
IN
LAKE SEDIMENTS



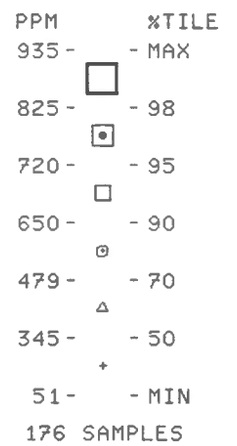
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



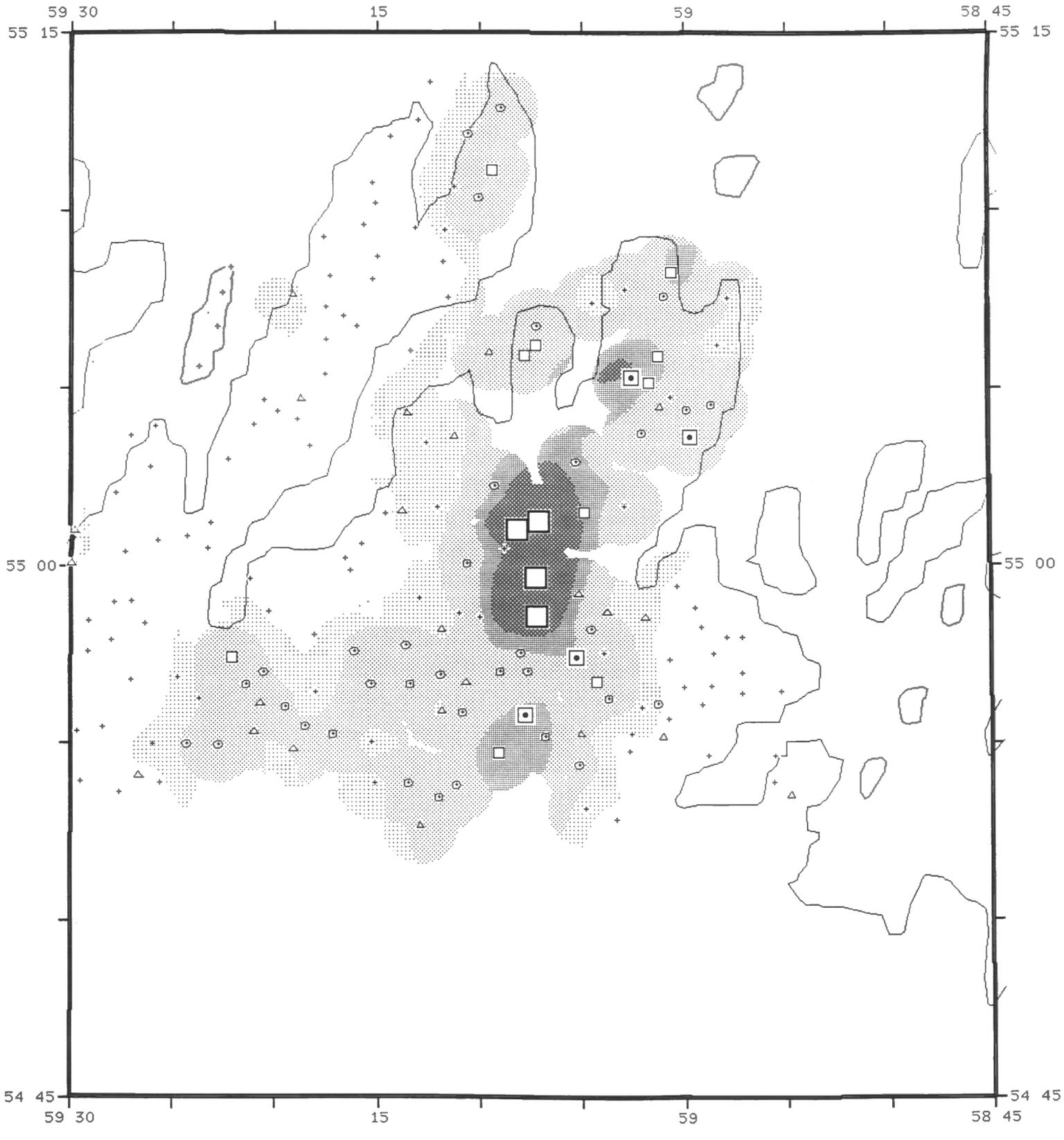


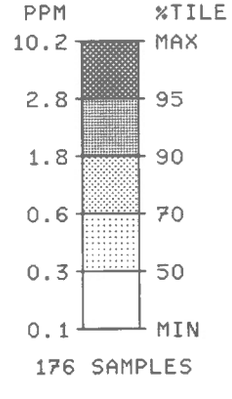
BARIUM
IN
LAKE SEDIMENTS



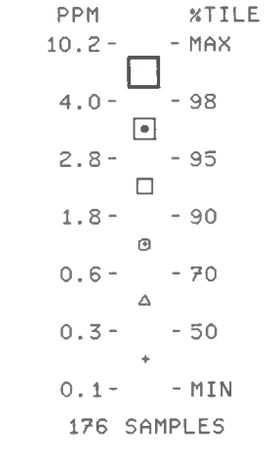
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



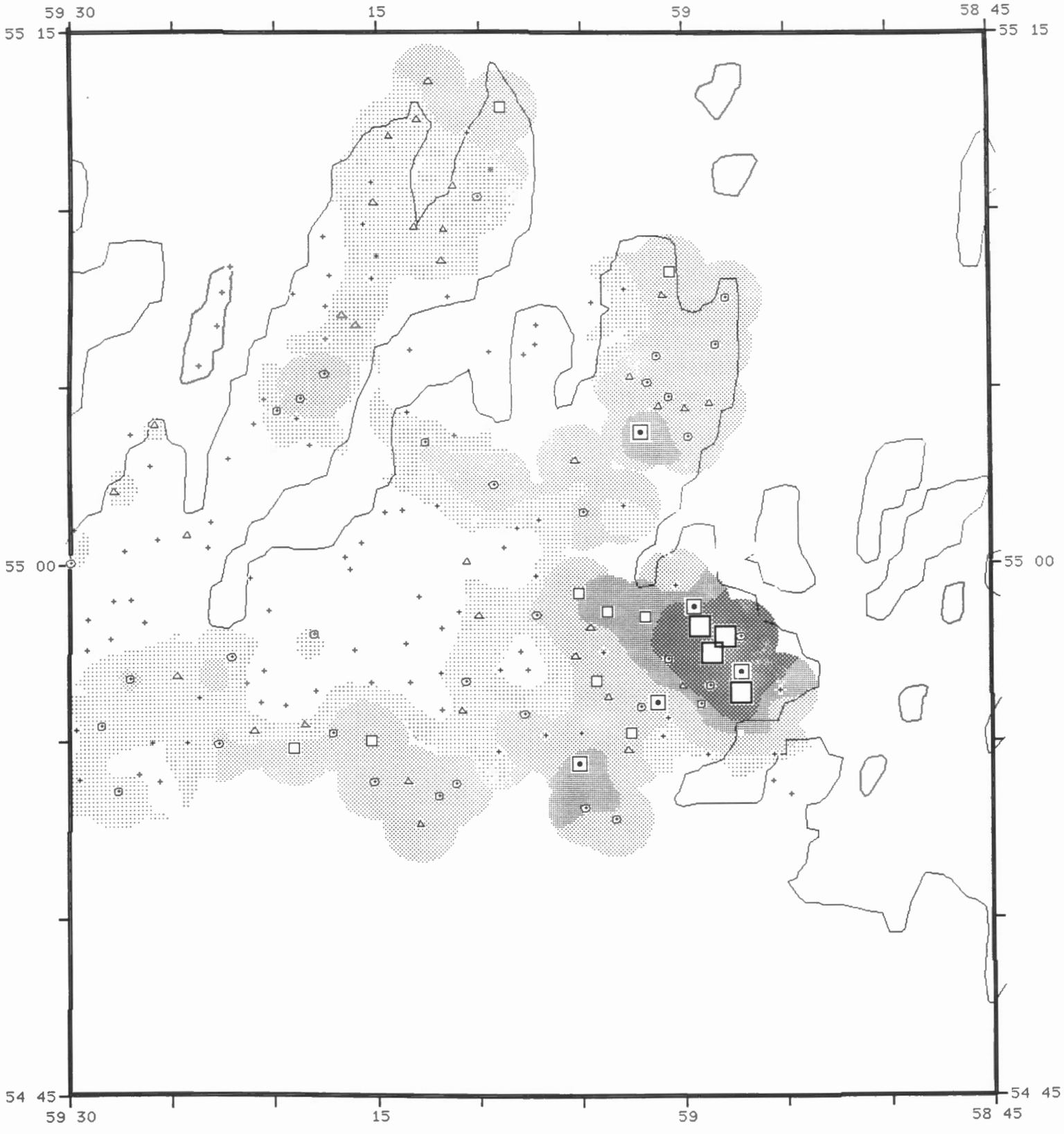


CADMIUM
IN
LAKE SEDIMENTS



GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PPM %TILE
63 MAX
23 95
16 90
8 70
5 50
1 MIN
176 SAMPLES

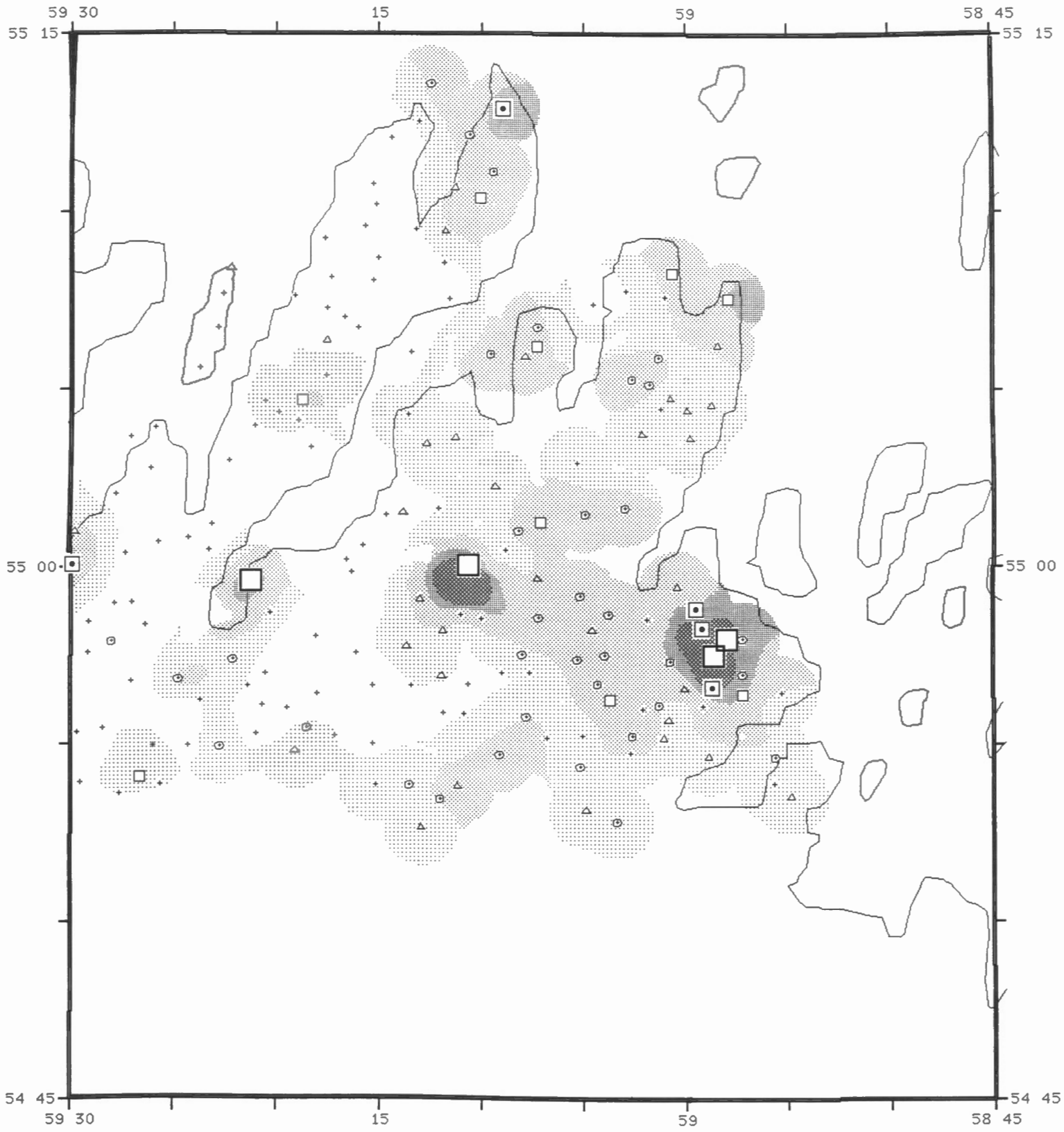
COBALT
IN
LAKE SEDIMENTS

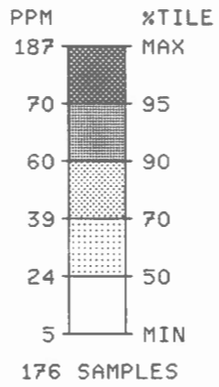
PPM %TILE
63 - MAX
39 - 98
23 - 95
16 - 90
8 - 70
5 - 50
1 - MIN
176 SAMPLES

0 20
KILOMETRES

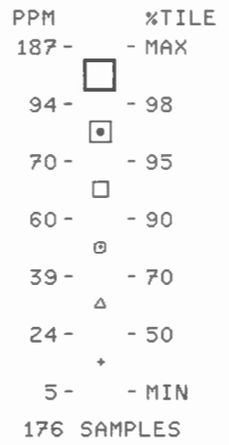
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



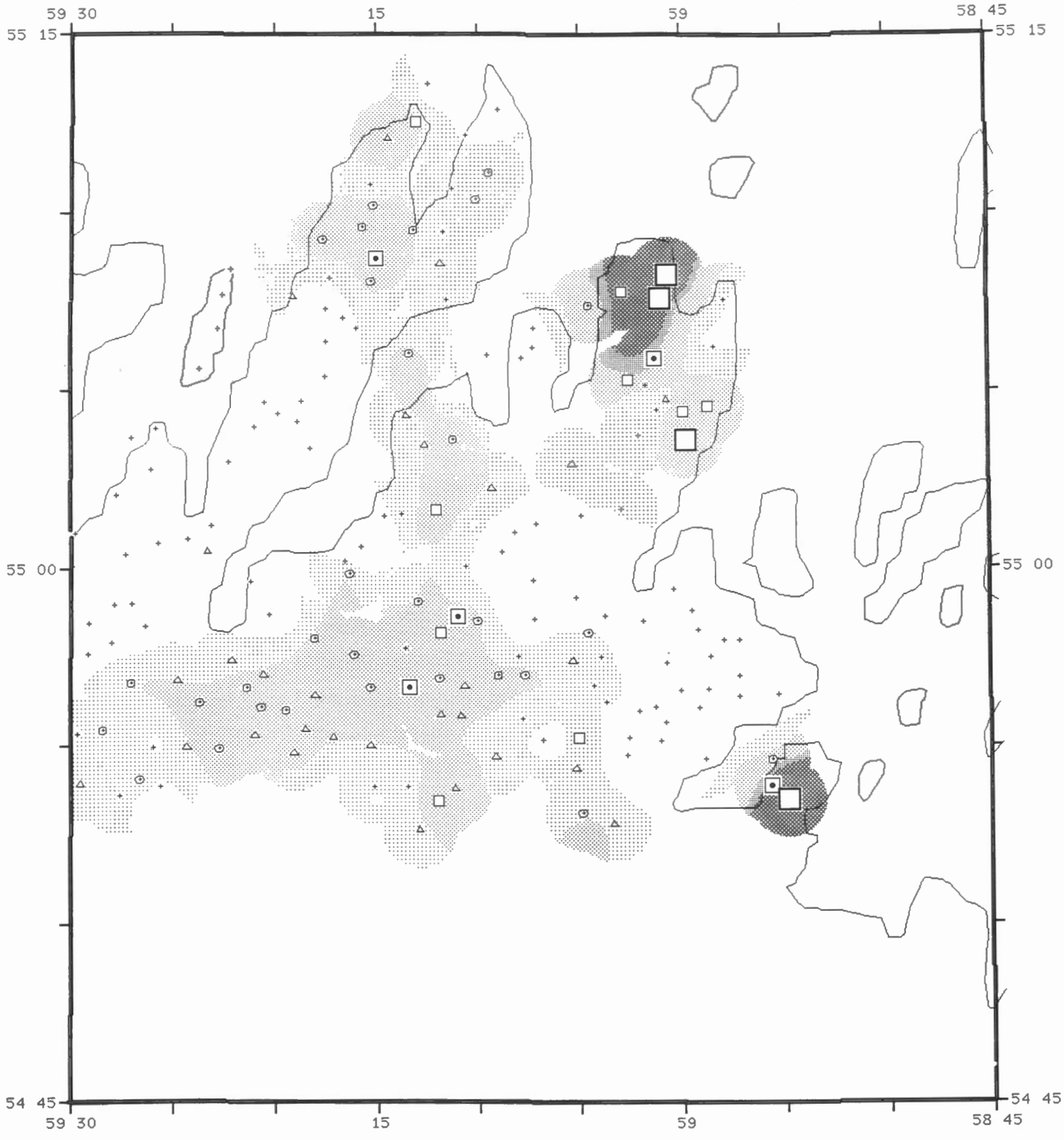


COPPER
IN
LAKE SEDIMENTS



GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PPB / %TILE

PPB	%TILE
240	MAX
150	95
140	90
100	70
70	50
10	MIN

176 SAMPLES

FLUORIDE
IN
LAKE WATERS

PPB	%TILE
240	MAX
170	98
150	95
140	90
100	70
70	50
10	MIN

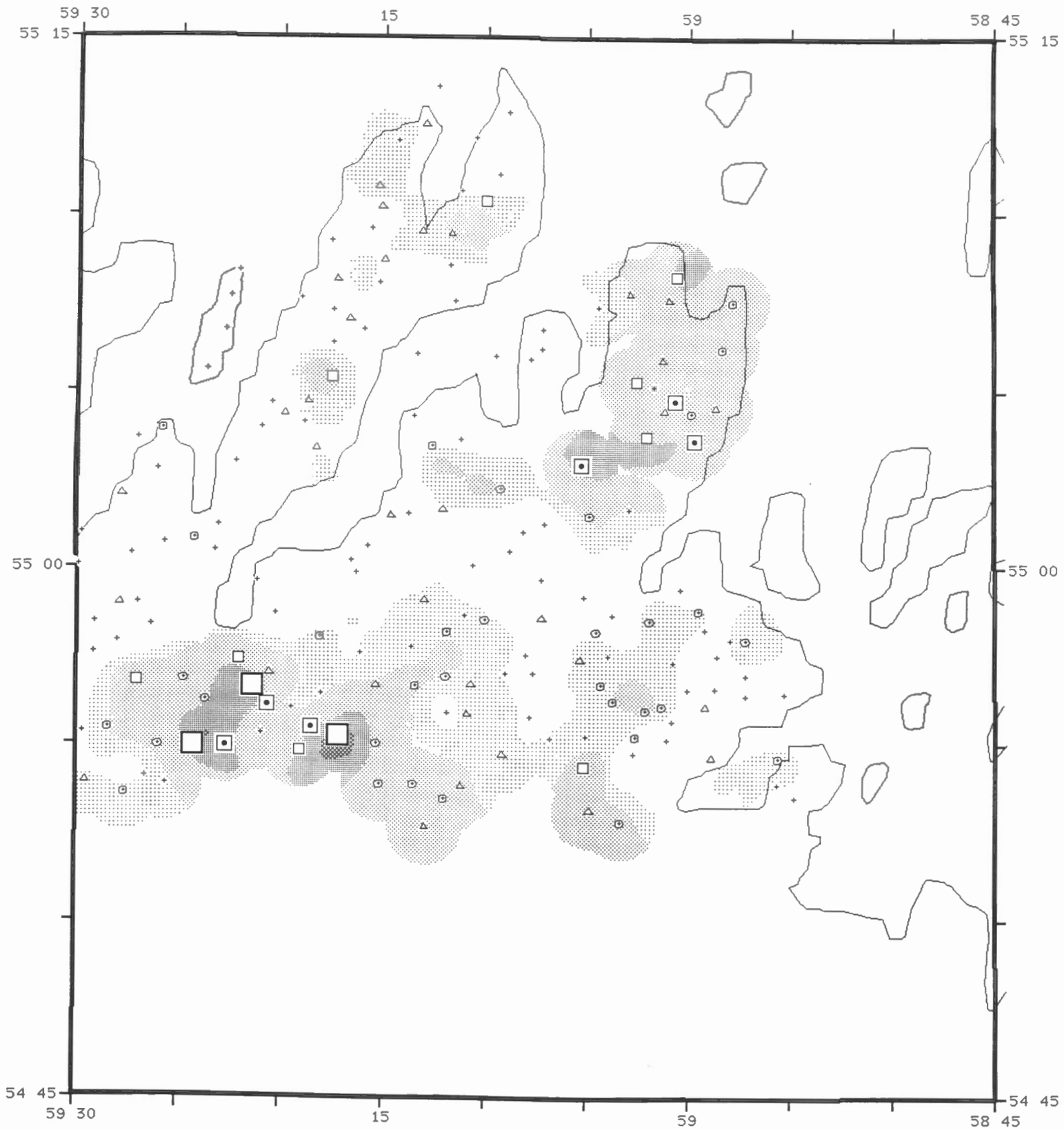
176 SAMPLES

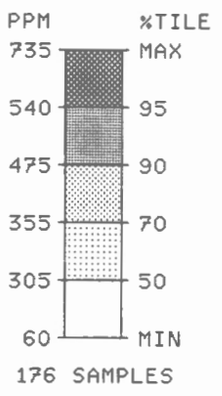
0 20

KILOMETRES

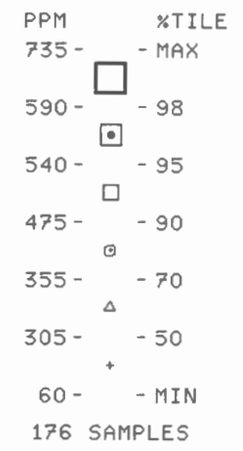
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)

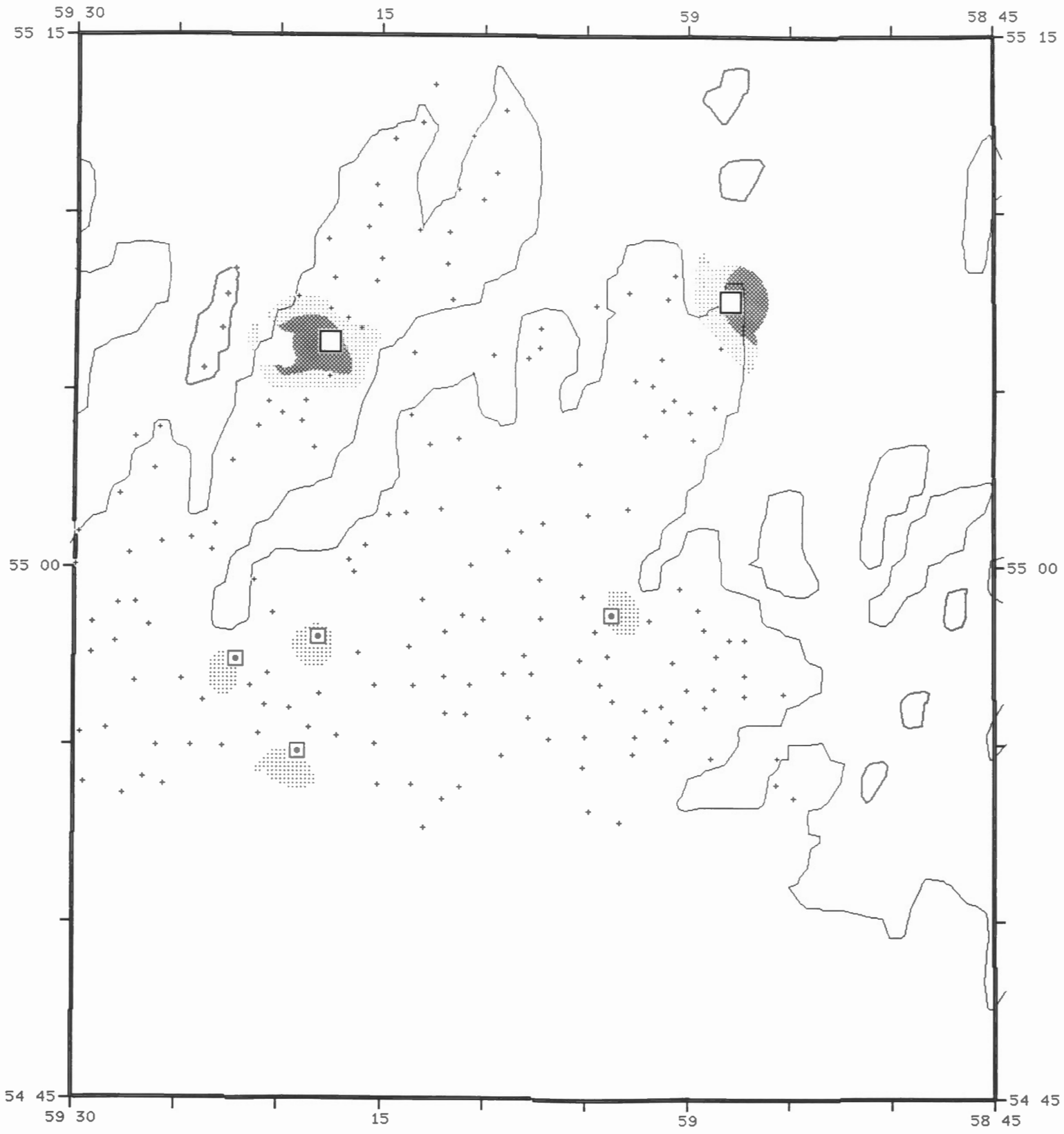




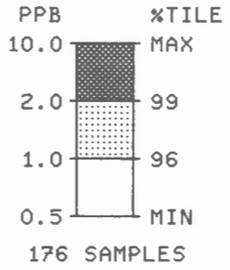
FLUORINE
IN
LAKE SEDIMENTS



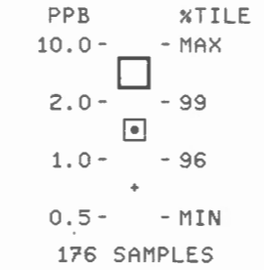
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)



NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)

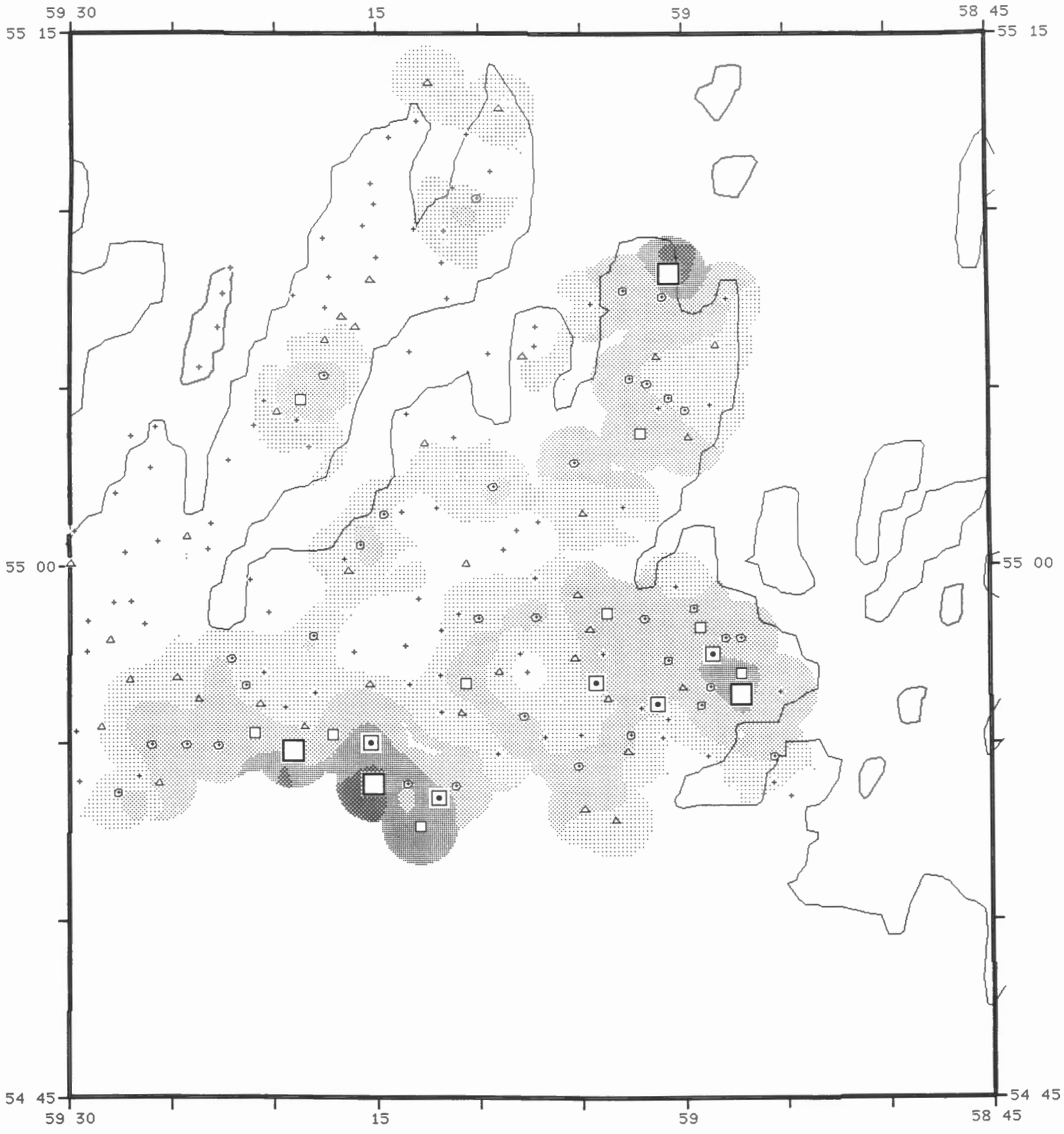


GOLD
IN
LAKE SEDIMENTS



GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PCT %TILE
11.44 MAX
7.65 95
6.11 90
3.02 70
1.82 50
0.17 MIN
176 SAMPLES

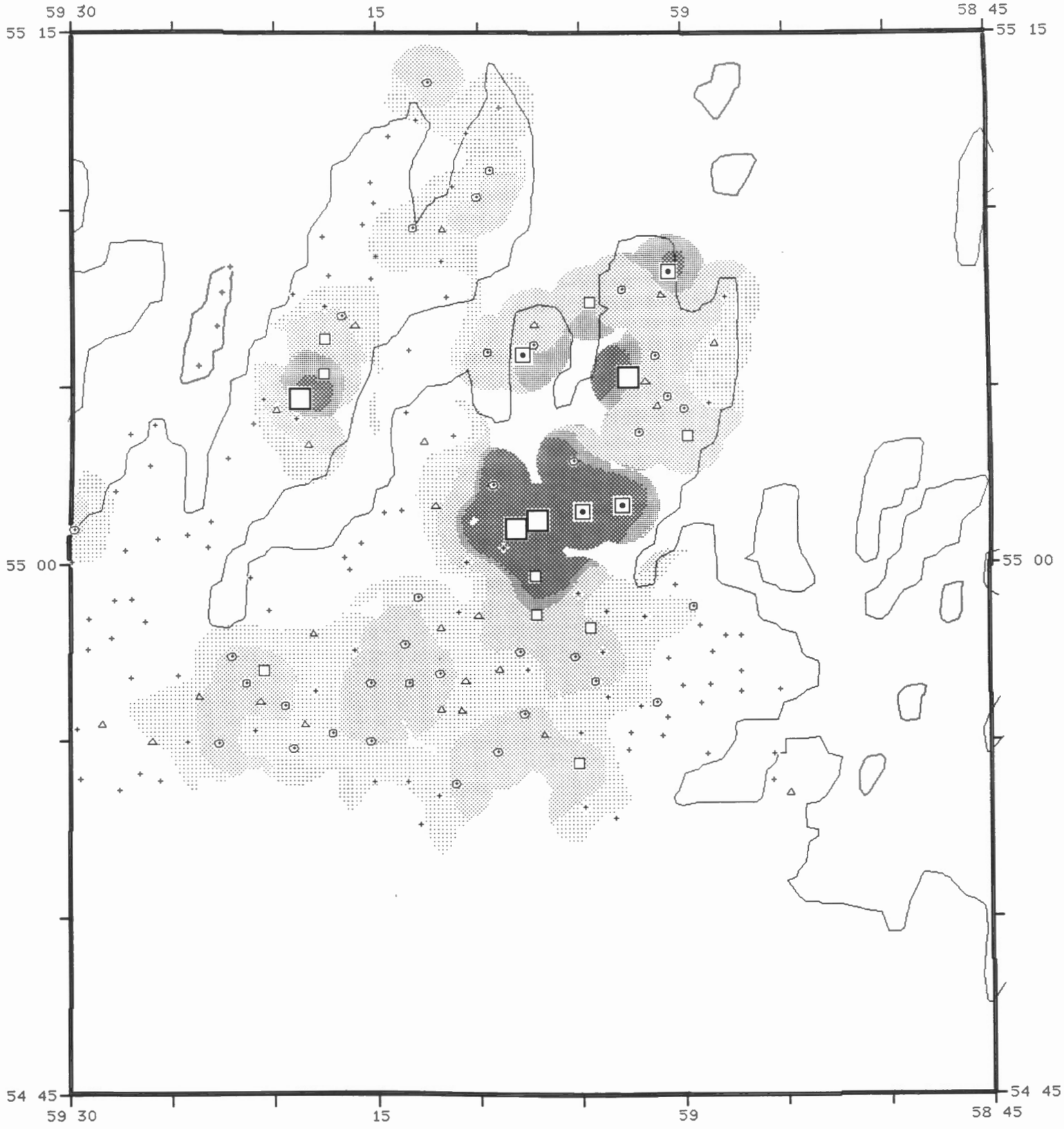
IRON
IN
LAKE SEDIMENTS

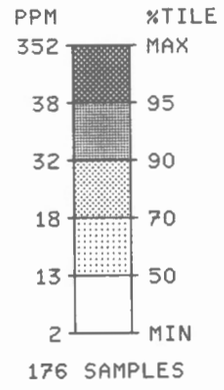
PCT %TILE
11.44 - MAX
8.66 - 98
7.65 - 95
6.11 - 90
3.02 - 70
1.82 - 50
0.17 - MIN
176 SAMPLES

0 20
KILOMETRES

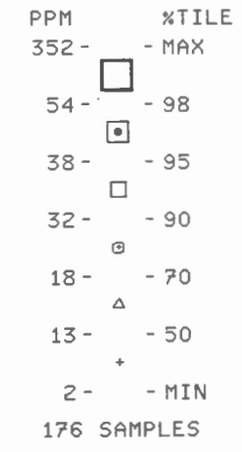
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



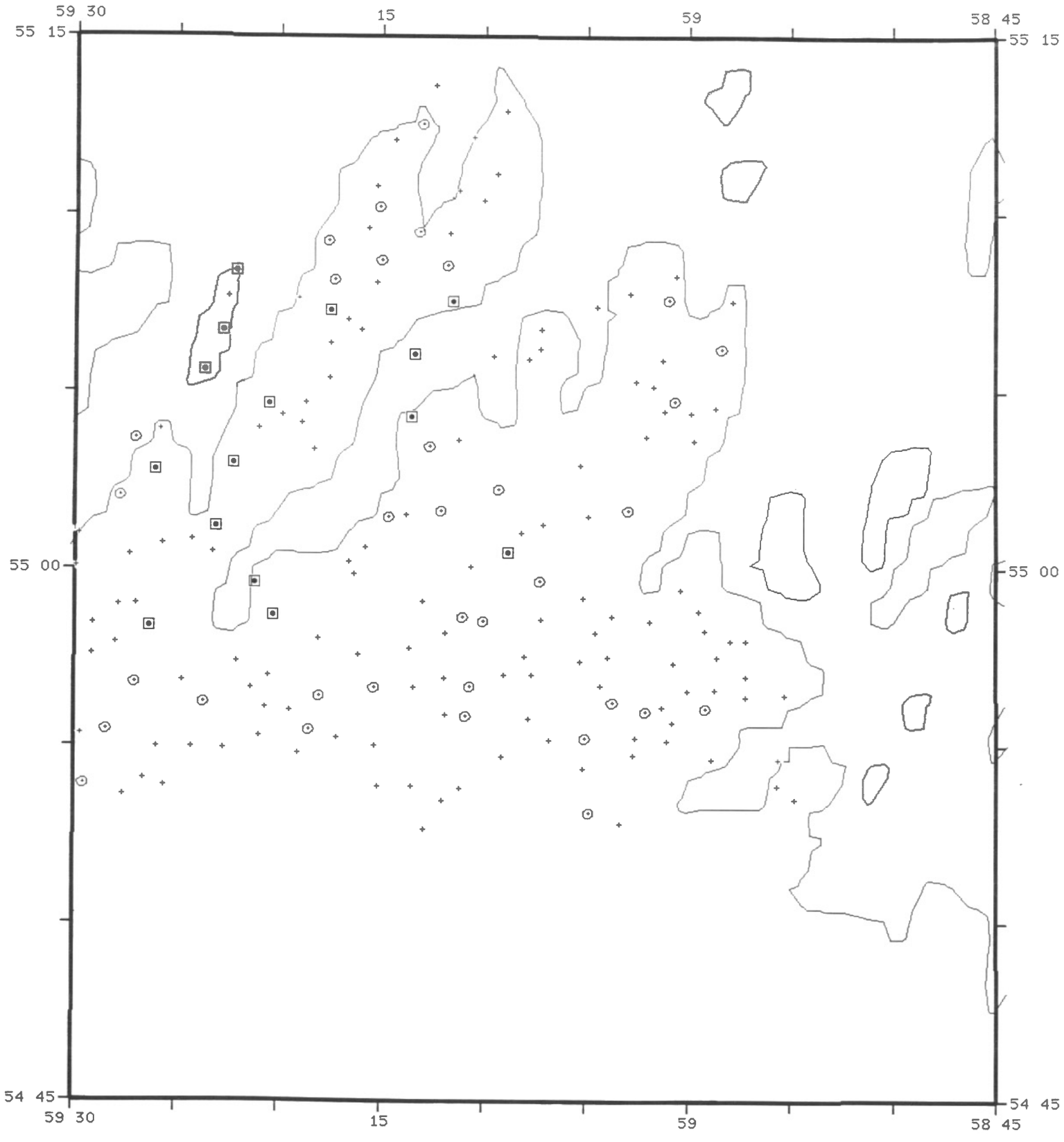


LEAD
IN
LAKE SEDIMENTS



GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



LOSS ON IGNITION
IN
LAKE SEDIMENTS

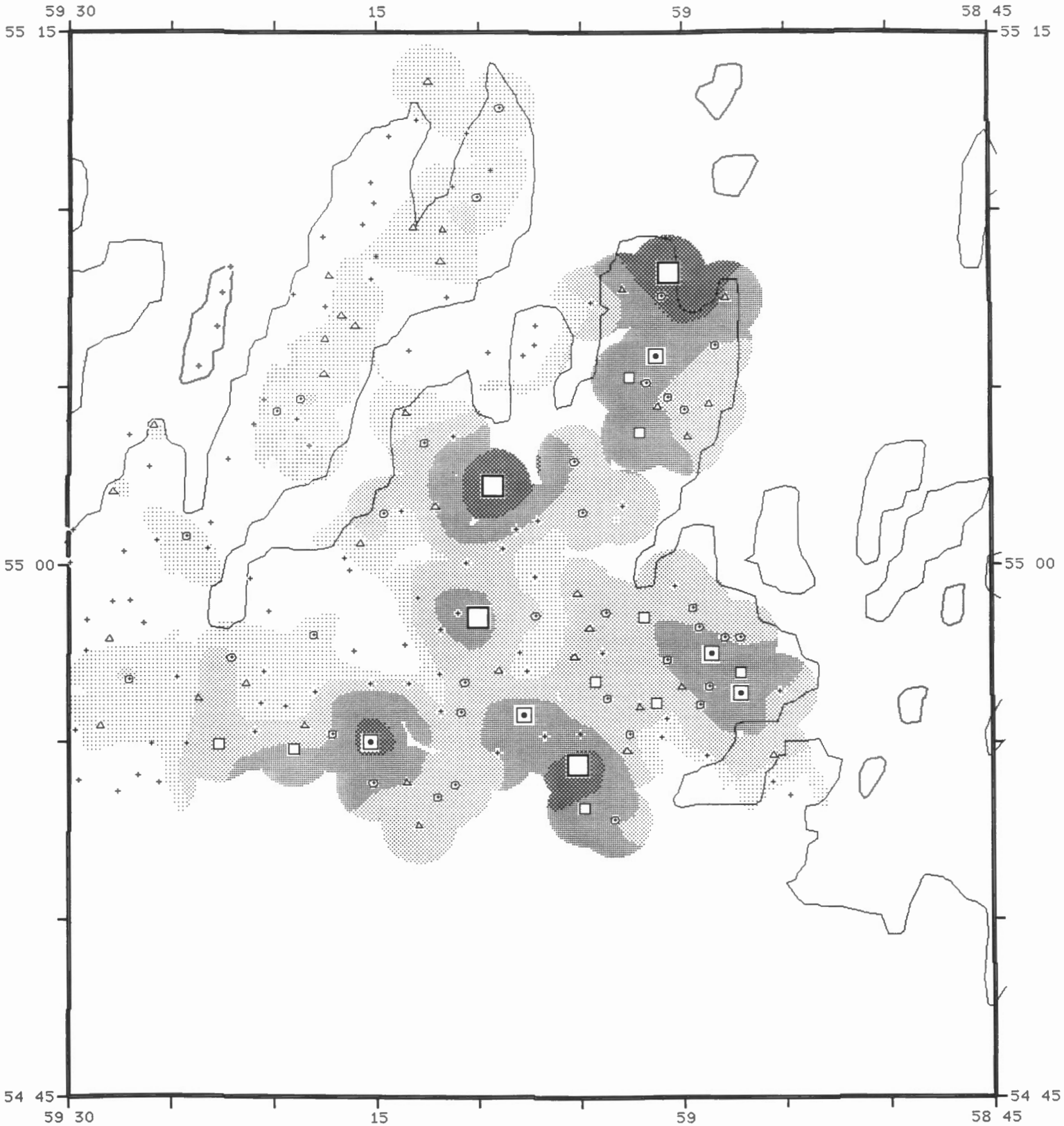
PCT	%TILE
91.4 -	- MAX
60.0 -	- 91
15.0 -	- 19
2.6 -	- MIN

176 SAMPLES

0 20
KILOMETRES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PPM / %TILE
8520 — MAX
2066 — 95
695 — 90
239 — 70
130 — 50
11 — MIN
176 SAMPLES

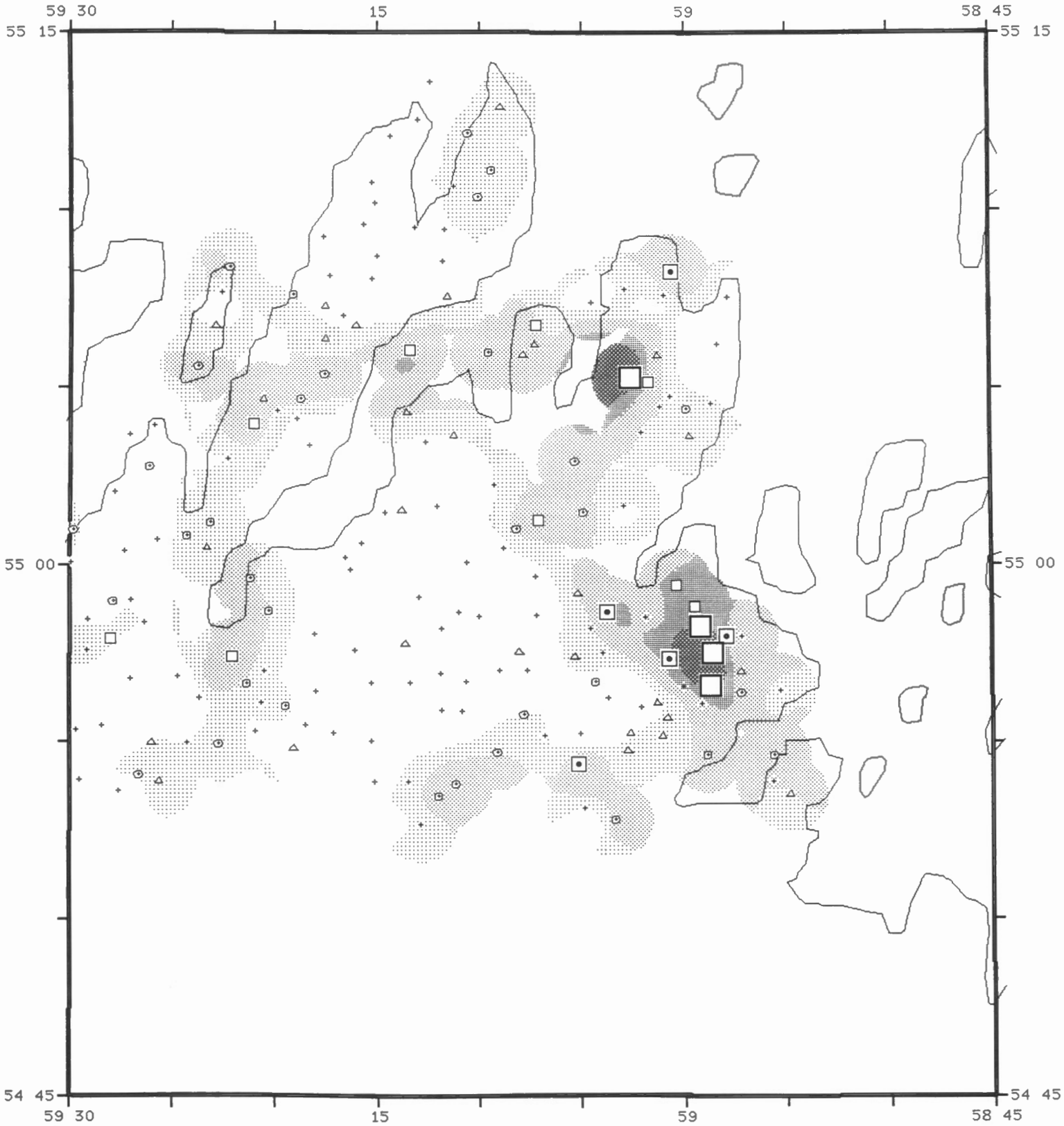
MANGANESE
IN
LAKE SEDIMENTS

PPM / %TILE
8520 — MAX
4710 — 98
2066 — 95
695 — 90
239 — 70
130 — 50
11 — MIN
176 SAMPLES

0 20
KILOMETRES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



MERCURY
IN
LAKE SEDIMENTS

PPB	%TILE
385	MAX
165	95
135	90
95	70
75	50
10	MIN

176 SAMPLES

PPB	%TILE
385	MAX
220	98
165	95
135	90
95	70
75	50
10	MIN

176 SAMPLES

0 20

KILOMETRES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
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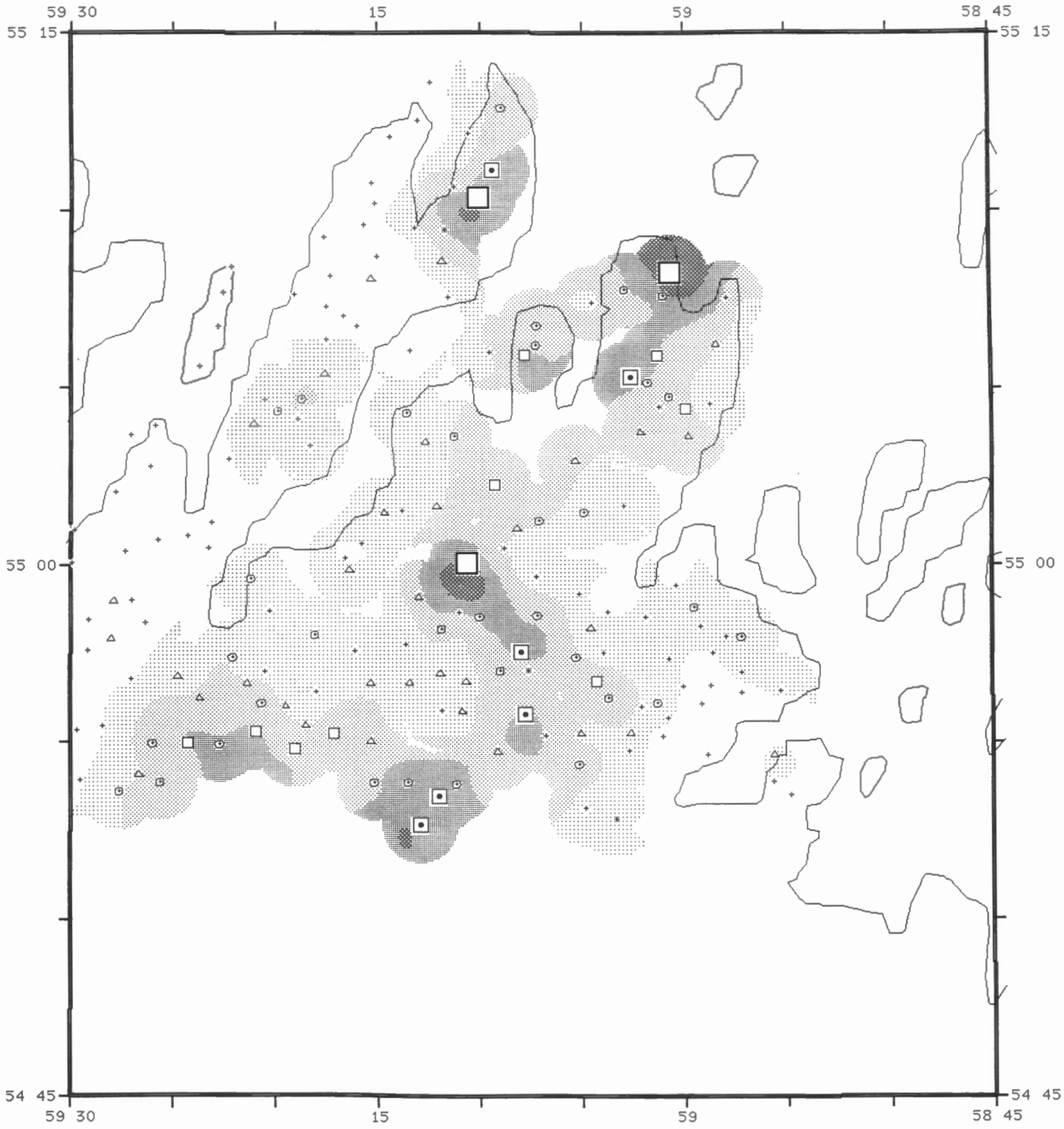
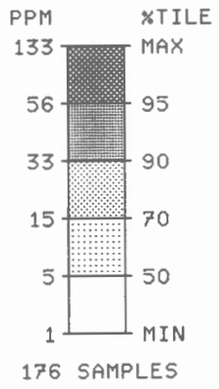
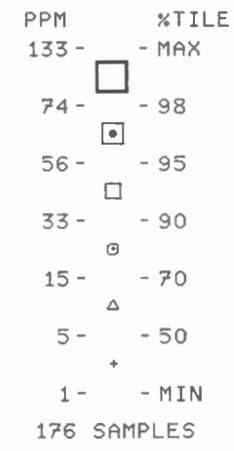
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



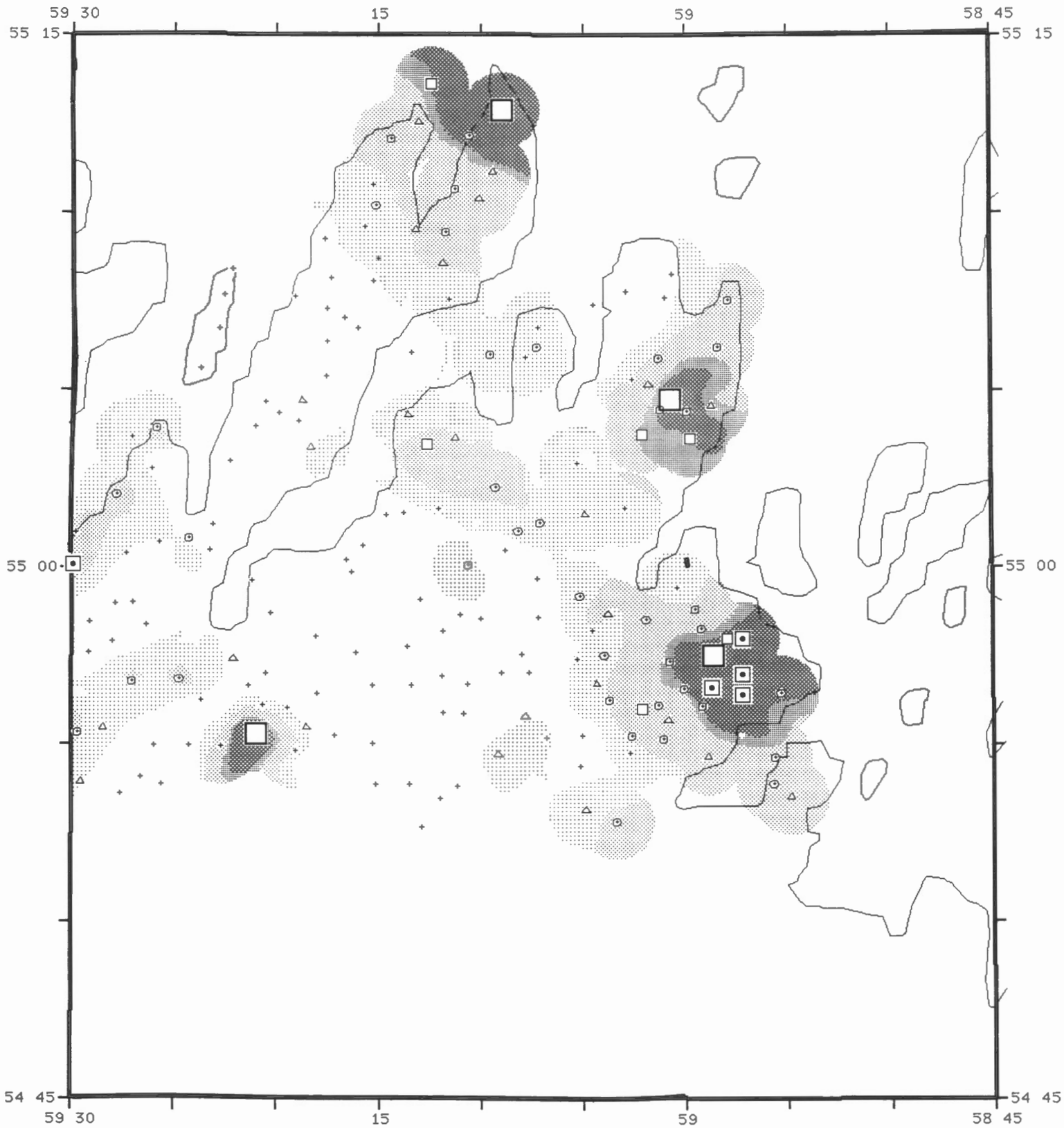


MOLYBDENUM
IN
LAKE SEDIMENTS



GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PPM %TILE
58 MAX
20 95
18 90
12 70
9 50
2 MIN
176 SAMPLES

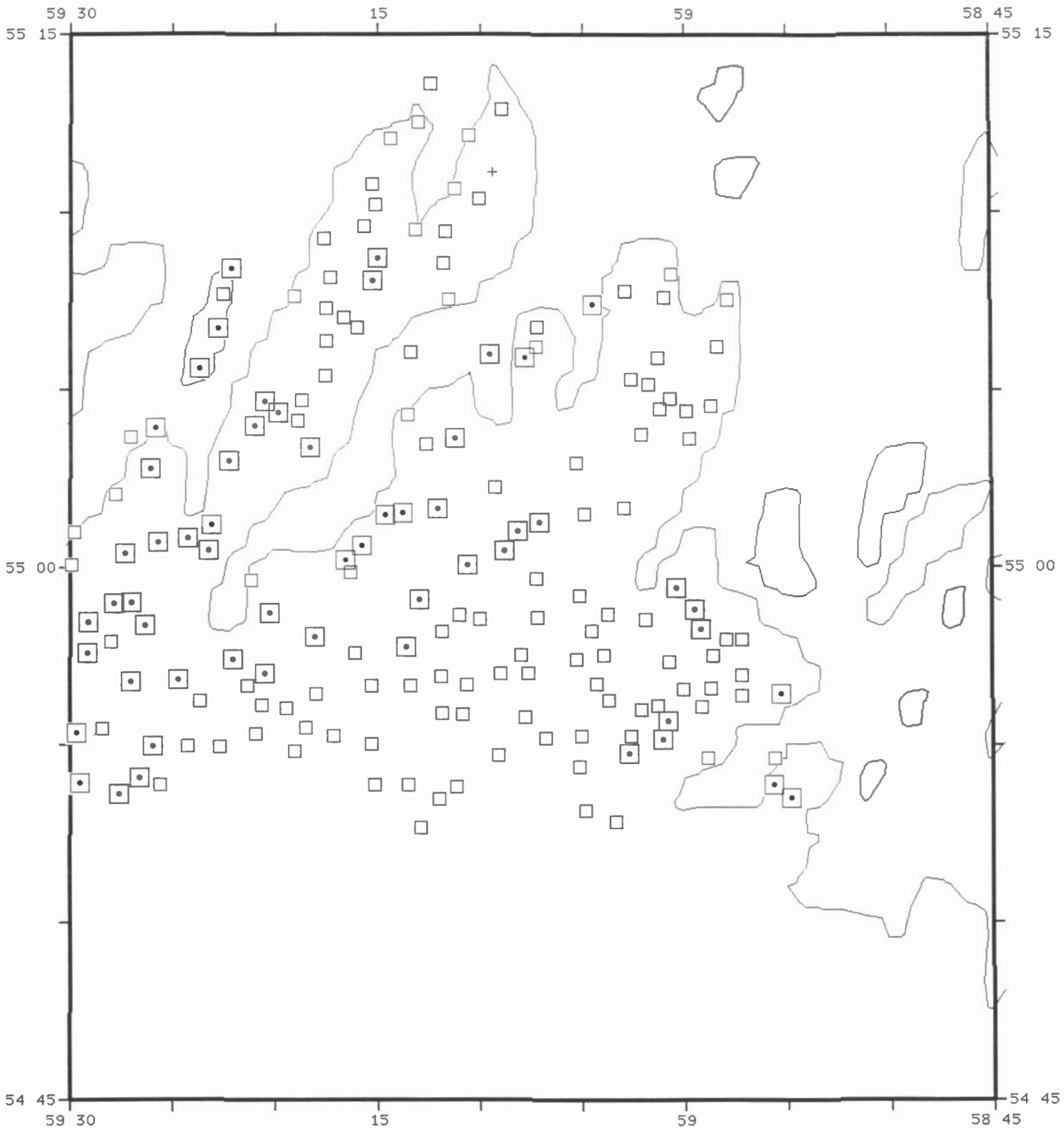
NICKEL
IN
LAKE SEDIMENTS

PPM %TILE
58 - MAX
36 - 98
20 - 95
18 - 90
12 - 70
9 - 50
2 - MIN
176 SAMPLES

0 20
KILOMETRES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PH
IN
LAKE WATERS

	%TILE
6.6	MAX
6.5	99
5.5	30
4.3	MIN

176 SAMPLES

0 20
KILOMETRES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
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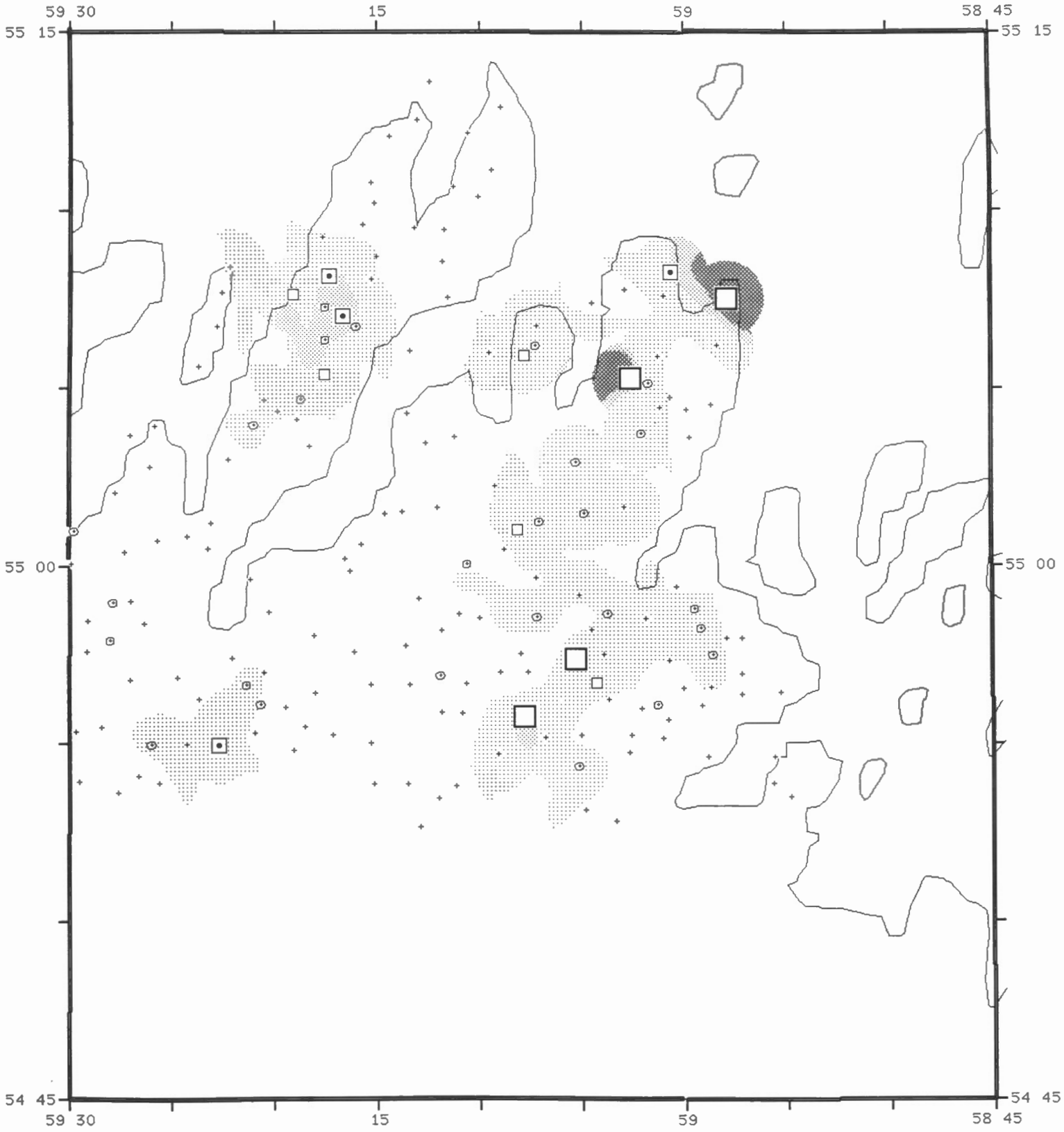
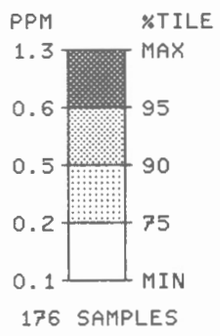
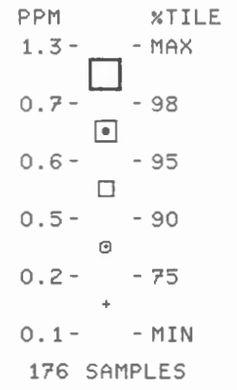
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



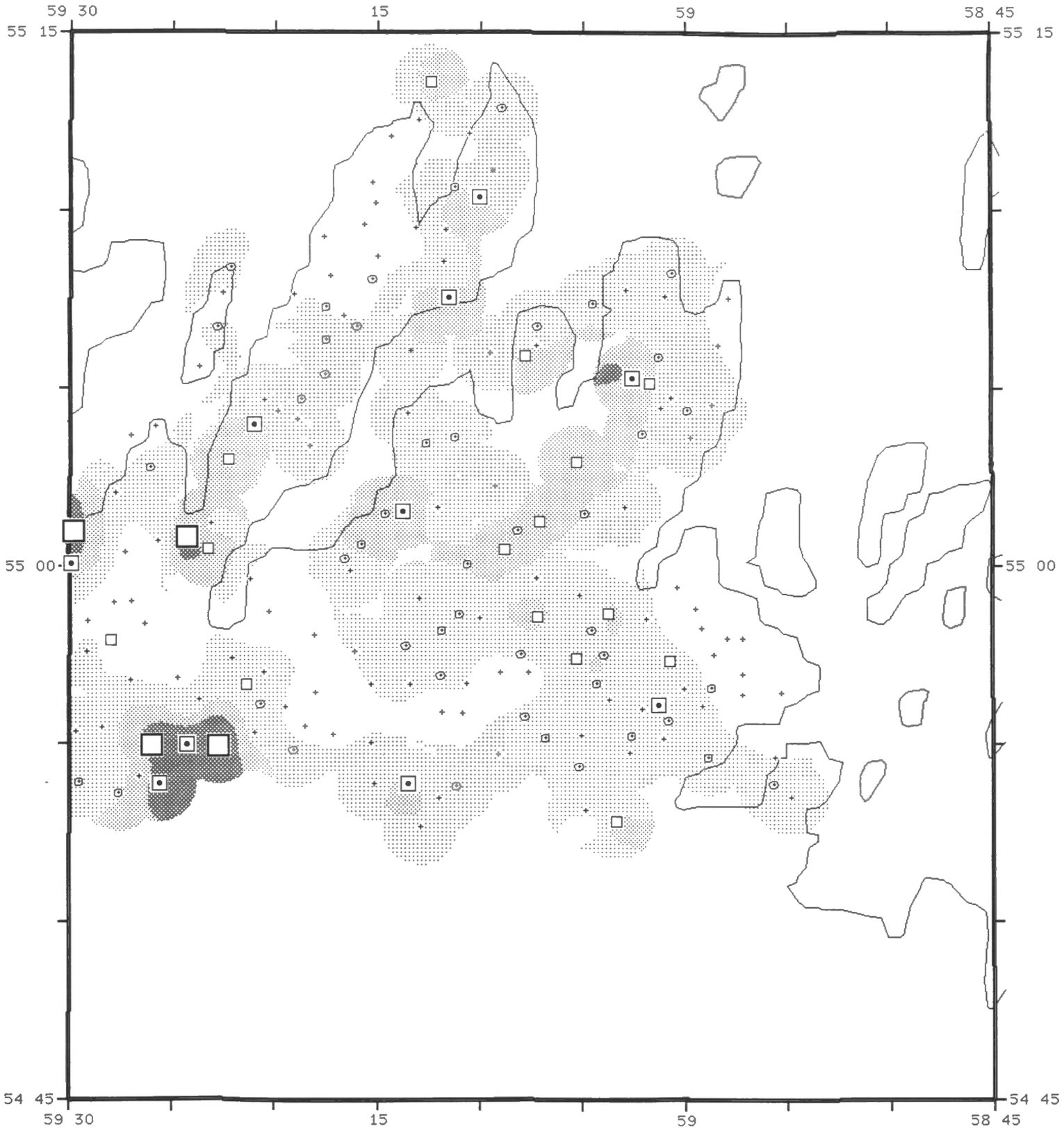


SILVER
IN
LAKE SEDIMENTS



GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PPM %TILE
8.0 MAX
4.0 90
3.0 80
2.0 50
1.0 MIN
176 SAMPLES

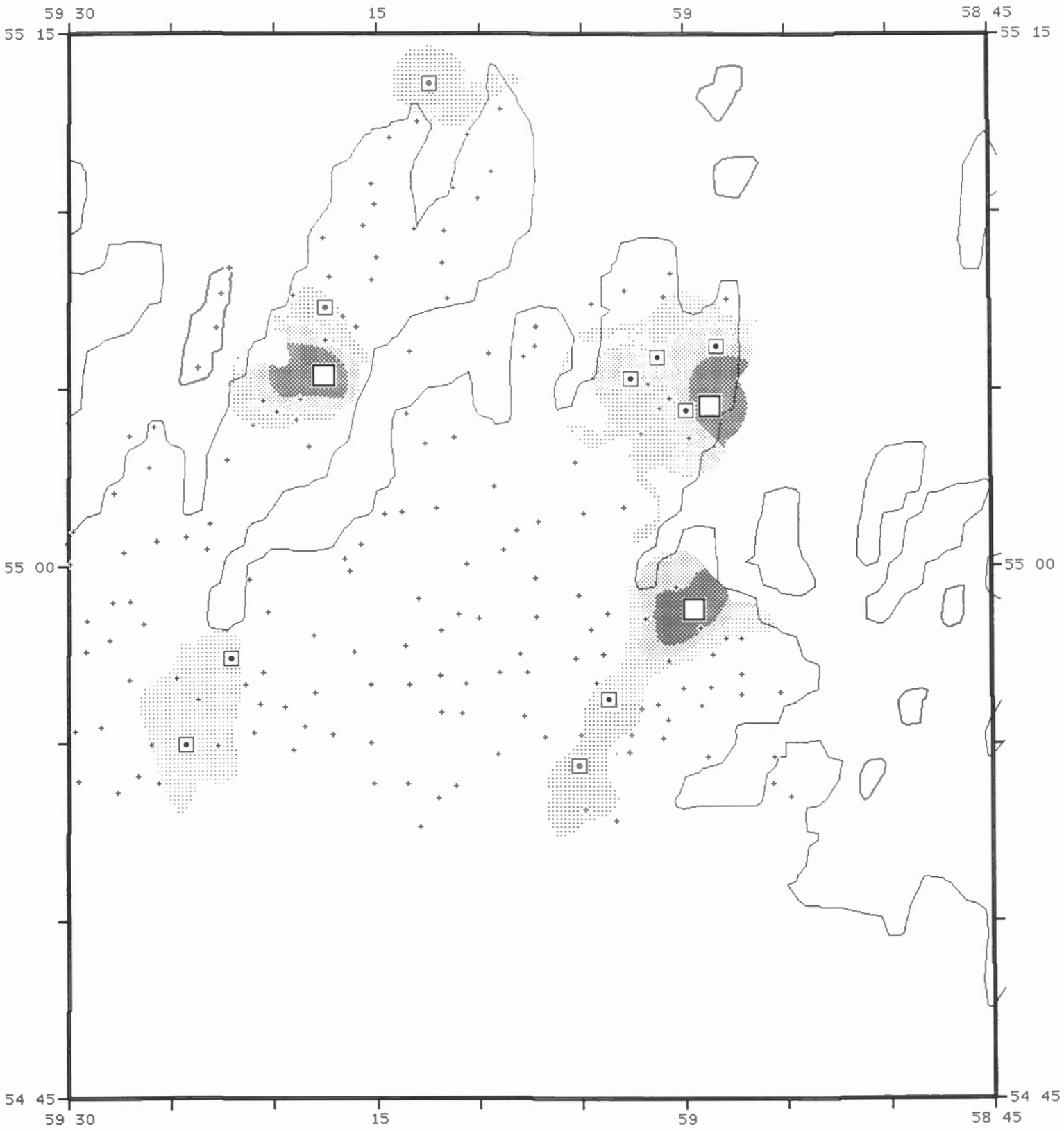
TIN
IN
LAKE SEDIMENTS

PPM %TILE
8.0 - MAX
5.0 - 98
4.0 - 90
3.0 - 80
2.0 - 50
1.0 - MIN
176 SAMPLES

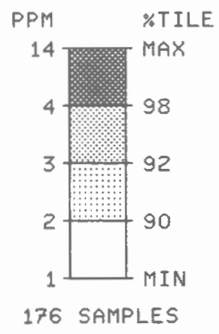
0 20
KILOMETRES

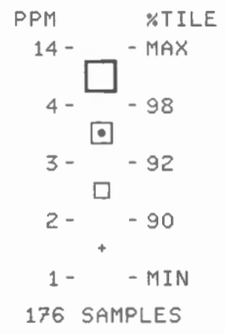
GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



TUNGSTEN
IN
LAKE SEDIMENTS





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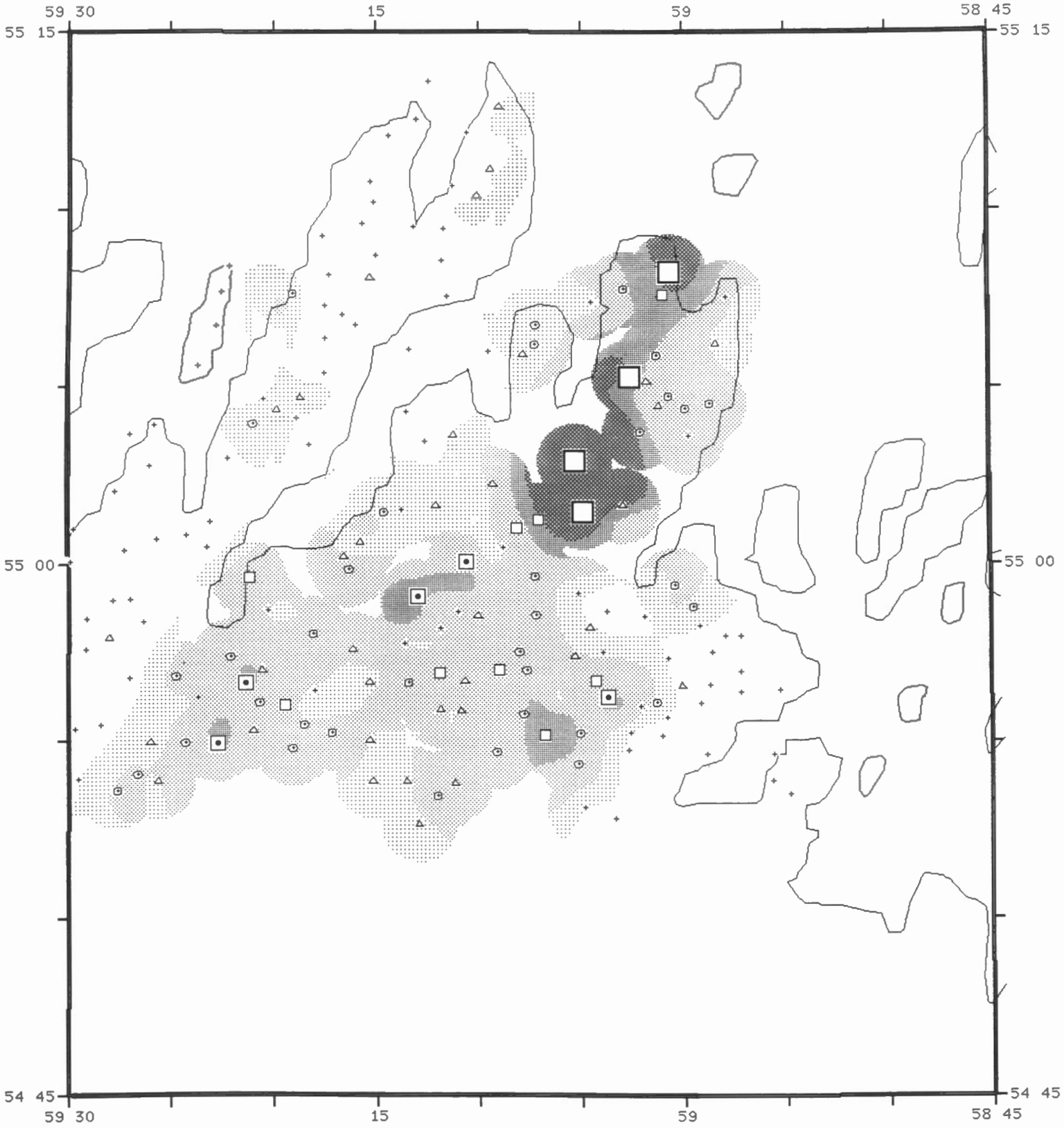
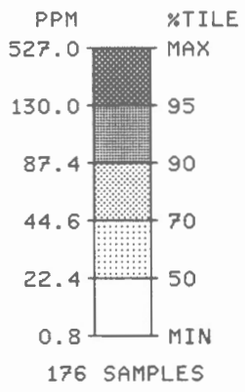
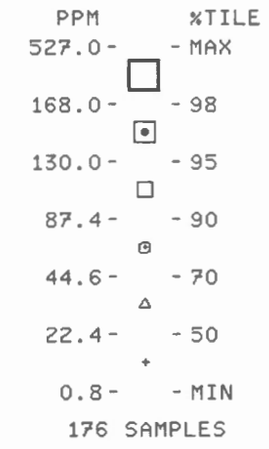
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)





URANIUM
IN
LAKE SEDIMENTS



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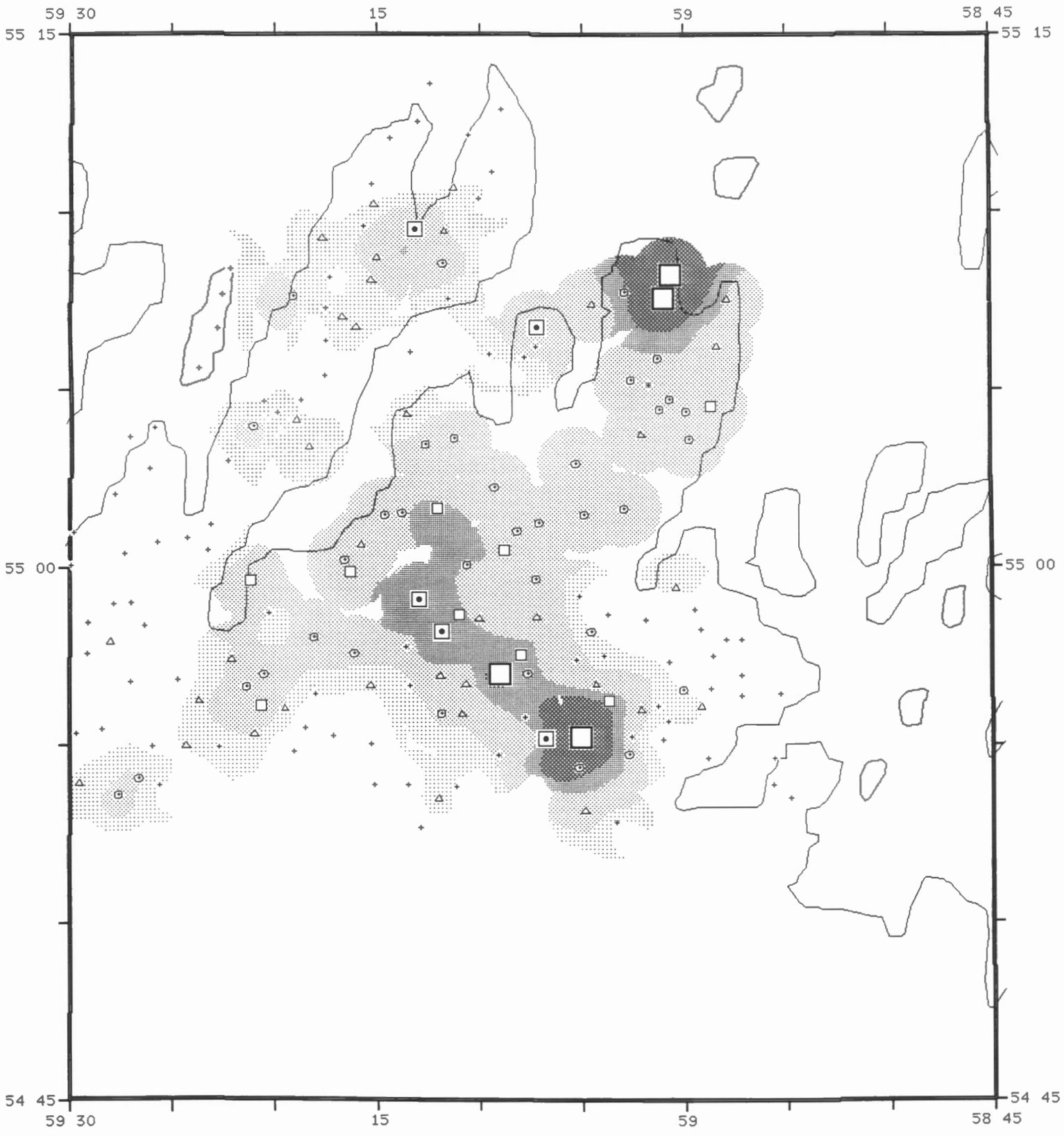
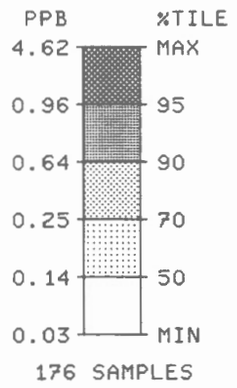
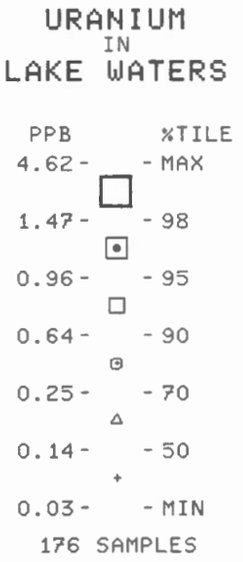
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
(1984-1989)



NEWFOUNDLAND 1988
(PARTS OF NTS 13J,130)





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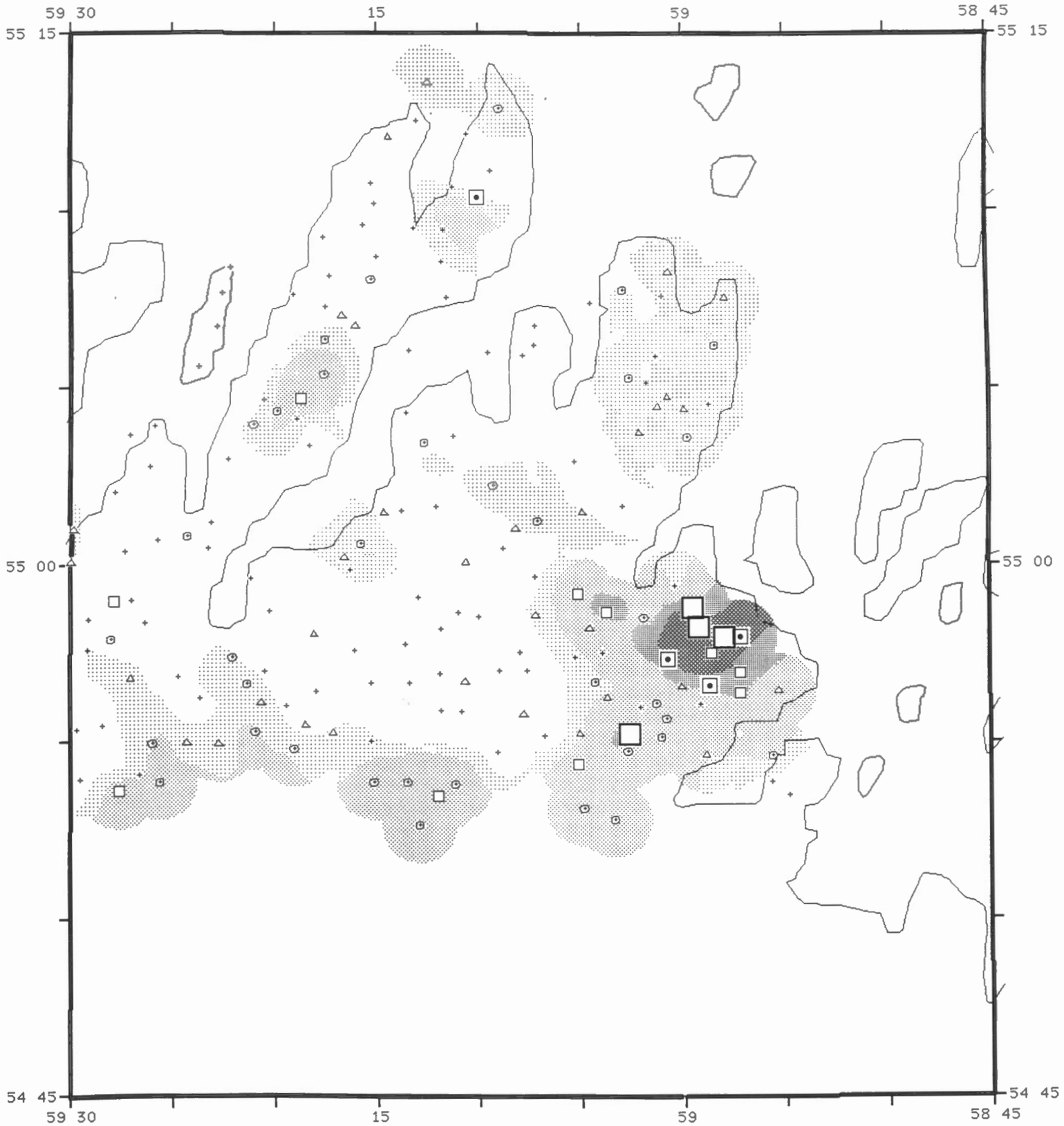
(1984-1989)

NEWFOUNDLAND 1988
(PARTS OF NTS 13J,13O)



PPM %TILE
128 MAX
83 95
70 90
45 70
36 50
2 MIN
176 SAMPLES

VANADIUM
IN
LAKE SEDIMENTS

PPM %TILE
128 - MAX
89 - 98
83 - 95
70 - 90
45 - 70
36 - 50
2 - MIN
176 SAMPLES

0 20
KILOMETRES

GSC OPEN FILE 1637
CANADA - NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT
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NEWFOUNDLAND 1988
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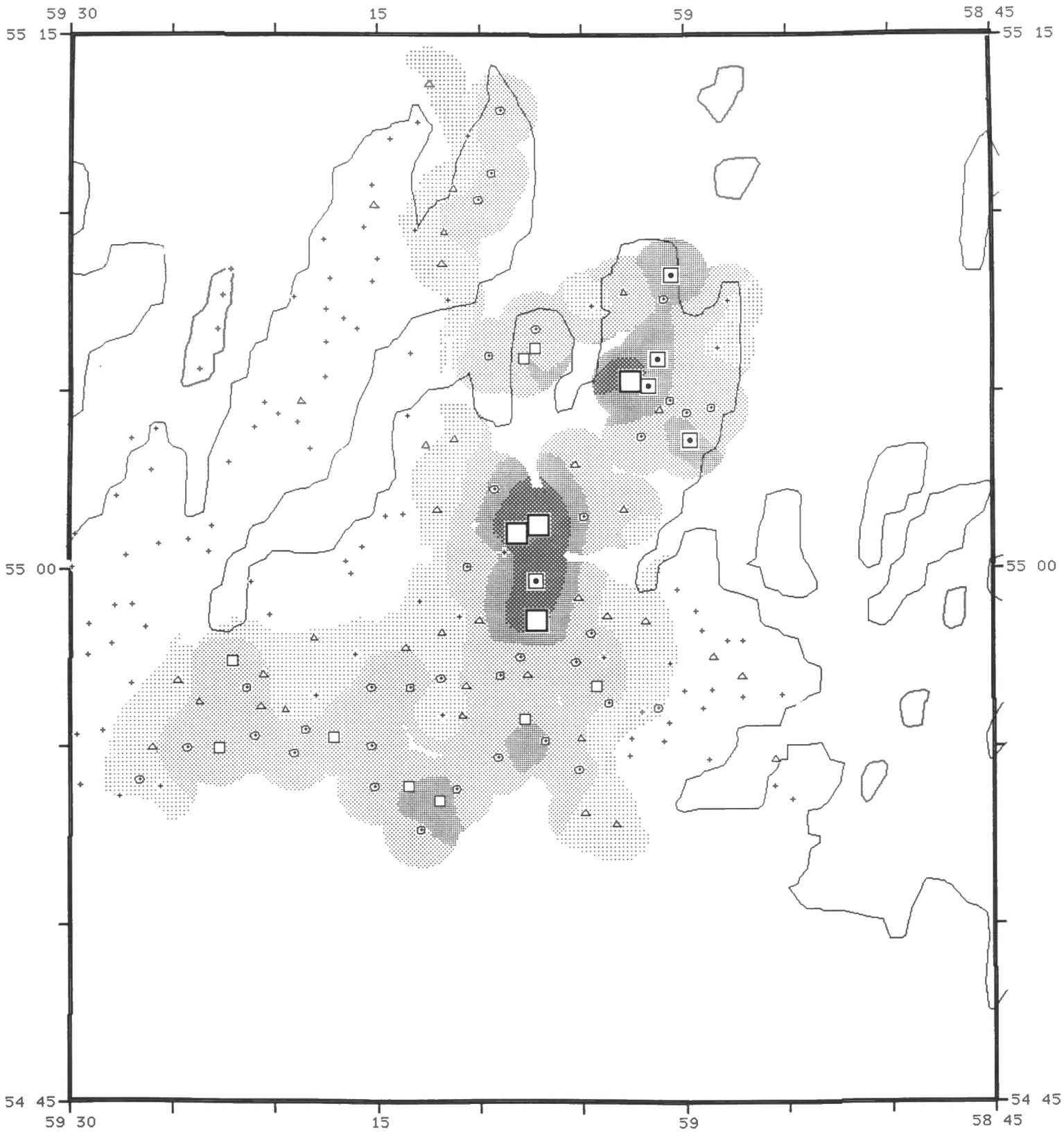

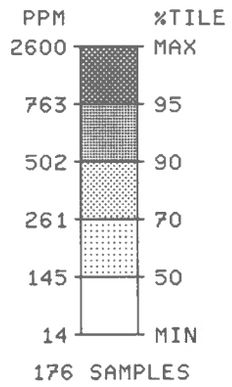

ZINC
IN
LAKE SEDIMENTS