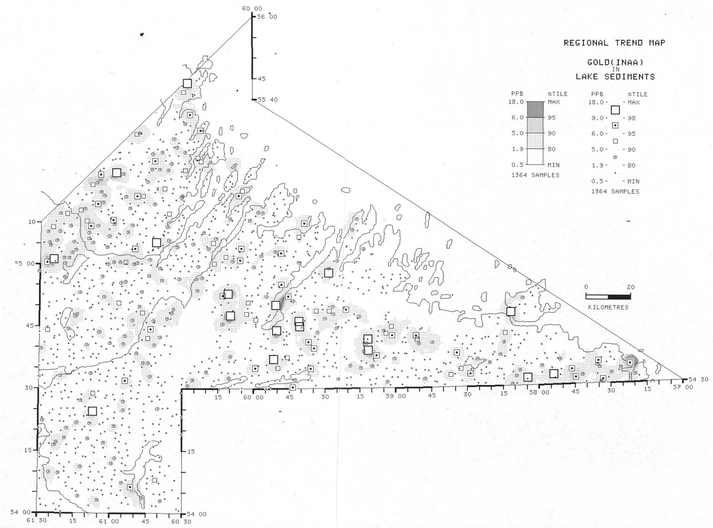
GOLD (ppb)
LAKE SEDIMENTS

GSC OPEN FILE 1636 (Rev. 1989)

CENTRAL LABRADOR, 1988, 1983, 1978, 1977

Parts of NTS 13I, J, K, N and O



CONCENTRATION		FREQUENCY
10 to 18	+	N= 20(1.4%)
7 to 9	⊡	N= 40(2.8%)
6	▪	N= 38(2.6%)
1 to 5	•	N= 196(13.5%)
0	+	N=1155(79.7%)

LEGEND

SEDIMENTARY, VOLCANIC AND METAMORPHIC ROCKS

HELIKIAN AND/OR APHEBIAN

GRENVILLE PROVINCE

21	HAGS 06*		Metaquartzite, schistose grit and conglomerate, sheared felsic porphyry, greenstone; metamorphic equivalents of SEAL, CROTEAU and AILLIK GROUPS.
20	HAGP 06		Garnetiferous biotite-quartz-feldspar paragneiss.
19	HUGP 06		Paragneiss, granitoid gneiss, minor quartzite and marble.

CHURCHILL PROVINCE

18	NW	06	Quartzite, conglomerate, arkose, shale, phyllite, basalt, mafic pyroclastics, greenstone, chlorite schist, stromatolitic limestone.

NAIN PROVINCE

17	PE	06	Intermediate to acid volcanics, feldspathic quartzite and minor conglomerate of UPPER CROTEAU GROUP.
16	AE3	05	Conglomerate, quartzite, slate, siliceous dolomite, chert and arkose of MIDDLE CROTEAU GROUP.
15	AE2	05	Feldspathic quartzite, conglomerate, argillite, basic volcanic rocks and metamorphic equivalents of AILLIK GROUP.
14	AE1	05	Slate, argillite, siltstone, quartzite, greywacke, dolomite, and basalt of LOWER CROTEAU GROUP.

ARCHEAN

GRENVILLE PROVINCE

13	AG	02	Granitic gneiss, amphibolite, undivided acidic intrusives.

NAIN PROVINCE

12	AEV	02	Mafic schistose rocks, greenstone, metasedimentary rocks, amphibolite, minor ultrabasic intrusions.
11	AEG	02	Granitic and granodioritic gneiss,migmatite, granulite, amphibolite; minor paragneiss, metasedimentary rocks and ultrabasic intrusions.

INTRUSIVE ROCKS

CAMBRIAN AND EARLIER

10	CM18	08	Diabase dykes.

HELIKIAN

9	HH17	06	Diabasic olivine gabbro, intermediate and ultramafic intrusive sills intruding SEAL GROUP.
8	HH16	06	Gabbro, norite and diabase sills.
7	PH13	06	Adamellite suite; adamellite, monzonite, syenite, granodiorite, granite and their hypersthene-bearing equivalents.
6	PH11	06	Anorthosite suite; anorthosite, anorthositic gabbro, leucotroctolite; minor gabbro, monzonite, granodiorite, ferrosyenite.

APHEBIAN

5	APH8	05	Syenite, monzonite, syenodiorite.
4	APH7	05	Granite, quartz monzonite, granodiorite, quartz diorite.
3	APH6	05	ADLAVIK GABBRO; gabbro, metagabbro, diorite.
2	APH5	05	Foliated feldspar-quartz-hornblende-biotite granitic gneiss, chlorite-epidote-quartz-feldspar gneiss, amphibolite, migmatite.
1	APH4	05	Foliated granodiorite and granodioritic gneiss; intrusive into CROTEAU AND AILLIK GROUPS.

*A mnemonic code assigned to rock types and field observations.

SYMBOLS

Geological boundary	~
Fault	—
Mainly basic volcanic rock	v v v v
No data	+ *
Single analysis	+ 27
Repeat analysis	+ 27, 14
Single analysis, less than detection limit	+ <2
Field duplicate site	*

This legend was modified from, and the geology base derived for these geochemical maps from Geology Map of Labrador, Mineral Resources Division, Department of Mines, Agriculture and Resources, Province of Newfoundland and Labrador, 1970, 1:1,000,000 scale.

Parts of NTS 13I, J, K, N and O

Elevation in feet above mean sea level

Mean magnetic declination 1988, 29° 42′ West, decreasing 9.2′ annually. Readings vary from 28° 24′ in the SW corner to 31° 0′ in the NE corner of the map area.

Geological Survey of Canada
Mineral Resources Division
Exploration Geochemistry Subdivision

CONTRACTORS

Lake sediment sample collection by Marshall, Macklin, Monaghan Limited, Toronto
Sample preparation by Golder Associates, Ottawa
Sediment chemical re-analysis by Bondar-Clegg and Company Ltd., Ottawa (1987, 1989)
original sediment analyses by Chemex Labs Limited, Vancouver (1983, 1978, 1977)
Water analyses by Barringer Magenta Limited, Toronto (1977, 1978) and
Acme Analytical Laboratories Ltd., Toronto (1983)
Geological base compiled 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

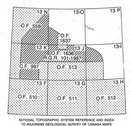
Contribution to Canada-Newfoundland Mineral Development Agreement 1984-89, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by the Geological Survey of Canada.

Contribution à l'Entente auxiliaire Canada/Terre-Neuve sur l'exploitation minérale 1984-89 faisant partie de l'Entente de développement économique et régional. Ce projet a été financé par la Commission géologique du Canada.

DEPARTMENT OF MINES
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

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

Canada



GOLD (ppb)
LAKE SEDIMENTS
GSC OPEN FILE 1636 (Rev. 1989)
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 101-87
CANADA – NEWFOUNDLAND
MINERAL DEVELOPMENT AGREEMENT (1984 – 1989)

LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY
CENTRAL LABRADOR, 1988, 1983, 1978, 1977

Scale 1:250 000 - Échelle 1:250 000
Kilometres 10 0 10 20 30 40 Kilometres

GOLD (ppb)
LAKE SEDIMENTS
GSC OPEN FILE 1636 (Rev. 1989)
CENTRAL LABRADOR, 1988, 1983, 1978, 1977