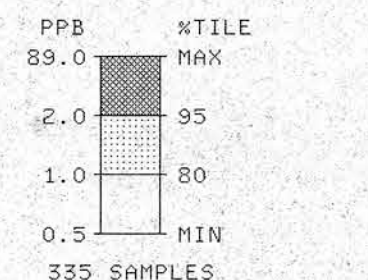
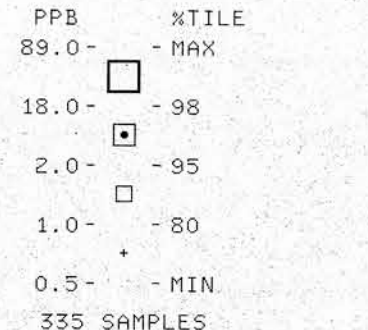


REGIONAL TREND MAP

0 5 10 15  
KILOMETERS - SCALE 1:250,000

GOLD  
STREAM SEDIMENTS



GSC OPEN FILE 1954  
CANADA - NEW BRUNSWICK  
MINERAL DEVELOPMENT  
AGREEMENT (1984-1989)

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

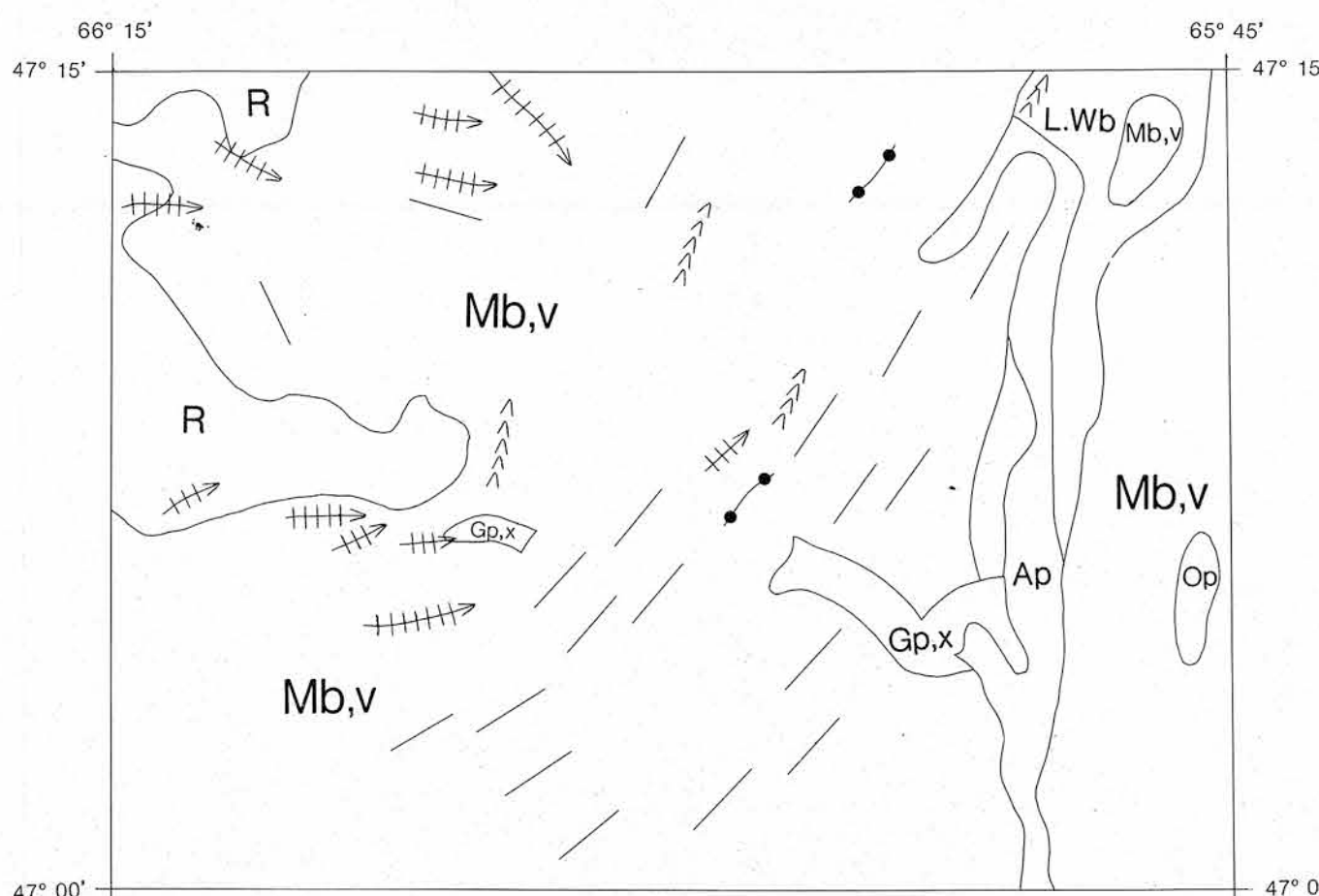
Contribution à l'Entente auxiliaire  
Canada/Nouveau-Brunswick sur l'exploitation  
minérale 1984-89 faisant partie de l'Entente de  
développement économique et régional. Ce projet  
a été financé par la Commission géologique du Canada.

Natural Resources and Energy  
New Brunswick  
Ressources naturelles et Énergie  
Nouveau-Brunswick

Energy, Mines and  
Resources Canada  
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REGIONAL TREND MAP

0 5 10 15  
KILOMETERS - SCALE 1:250,000

SURFICIAL GEOLOGY

Ap	Alluvial Sediments: sand, gravel, some silt, minor clay and organic sediment
Op	Organic Sediments: peat, muck, minor silt and fine sand
LWb	Lacustrine and Marine Sediments: sand silt, minor clay and gravel, patchy thin veneer of organic sediment
Gp,x	Glaciofluvial Sediments: sand, gravel, minor silt and till
Mm	Morainal Sediments: loamy ablation till, some lodgment till, minor silt, sand, gravel and boulders
Mb,v	Morainal Sediments: loamy lodgment till, minor ablation till, silt, sand, gravel and rubble
R	Bedrock: various lithologies and ages

SYMBOLS

Fluted bedrock and drumlinoid ridges	~~~~~
Esker	-----
Meltwater channel	~~~~~
Moraine ridge	-----

Source of information:

Rampton, V.N. 1984, Surficial geology, New Brunswick, Geological Survey of Canada,  
Map 1594A, Scale 1:500,000

GEOLOGICAL SURVEY OF CANADA  
MINERAL RESOURCES DIVISION  
EXPLORATION GEOCHEMISTRY SUBDIVISION

CONTRACTORS

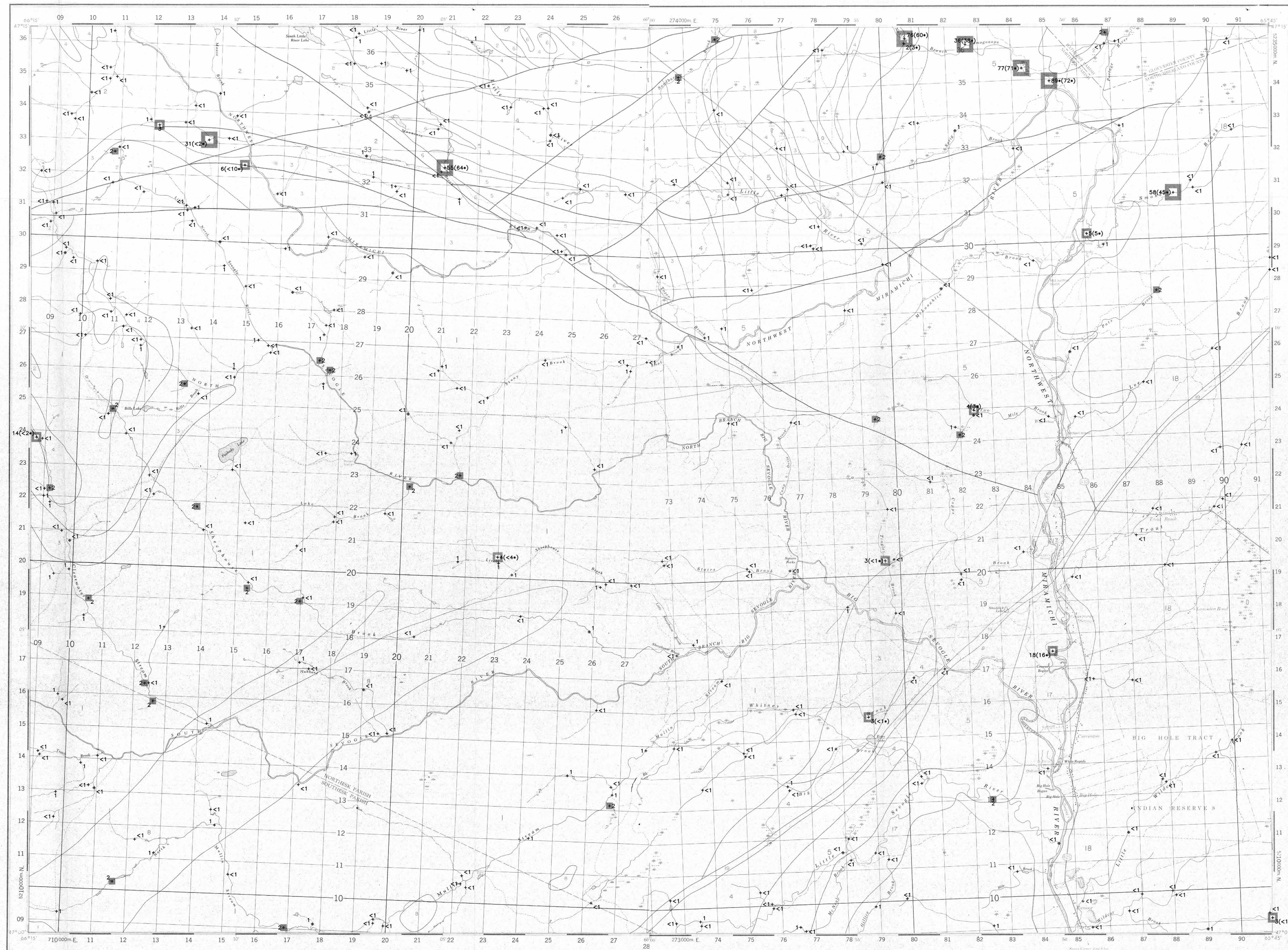
Collection:	K.D.A. Whaley and Associates, Kingsclear, New Brunswick
Preparation:	Golder Associates, Ottawa
Sediment Analysis:	Bondar-Clegg and Company Ltd., Ottawa Chemex Labs Limited, Vancouver (Au only)
Water Analysis:	Chemex Labs Limited, Vancouver
Cartography:	GSC - Geological Information Division Terra Surveys Ltd., Ottawa
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1989, a subsidiary agreement under the Economic and Regional Development  
Agreement. Project funded by the Geological Survey of Canada.

CONCENTRATION	FREQUENCY
19 to 89	N= 7( 2.1%)
3 to 18	N= 10( 3.0%)
2	N= 26( 7.8%)
0 to 1	N= 292(87.2%)

Energy, Mines and  
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Énergie, Mines et  
Ressources Canada



GOLD (ppb)  
STREAM SEDIMENTS  
GSC OPEN FILE 1954  
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 117-88  
CANADA - NEW BRUNSWICK  
MINERAL DEVELOPMENT AGREEMENT (1985 - 1989)  
STREAM SEDIMENT AND WATER GEOCHEMISTRY SURVEY  
NORTH-CENTRAL NEW BRUNSWICK, 1988  
Scale 1:50 000 - Echelle 1/50 000

Kilometres  
Universal Transverse Mercator Projection  
Projections transverse méridienne  
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NTS 210/1 (E); 21P/4 (W);

GOLD (ppb)  
STREAM SEDIMENTS  
GSC OPEN FILE 1954  
NORTH-CENTRAL NEW BRUNSWICK, 1988

GEOLOGY LEGEND

JURASSIC	19+ Jm 47**	olivine diabase
PENNSYLVANIAN	18 Ps2 33	CLIFTON FORMATION: grey and red sandstone, conglomerate, siltstone, and shale, minor coal
	17 Ps1 33	BATHURST FORMATION: red and grey sandstone, siltstone, shale, and conglomerate, minor coal
MISSISSIPPIAN	16 Ms 31	Red and brown sandstone, shale and conglomerate
DEVONIAN	15 Dfv 26	Maroon and orange flow-banded and massive rhyolite, rhyolite agglomerate, tuff, and breccia, dacite(?)
	14 Dmv 26	Amygdaloidal basalt, basaltic tuff and breccia, palagonite tuff, andesite, minor shale, mudstone and siltstone
	13 Ds1 26	Calcareous mudstone, siltstone, sandstone, maroon and green sandstone, siltstone, conglomerate, limestone, includes minor felsic and mafic volcanic rock
	12 Df 25	Granite, adamellite, granodiorite, quartz monzonite, quartz feldspar porphyry and related rocks
	11 Dm 25	Gabbro and diabase
SILURIAN	10 Ss2 20	CHALEUR GROUP: calcareous siltstone, sandstone and shale, minor limestone, red slate, conglomerate (includes Perham Formation)

ORDOVICIAN AND/OR SILURIAN	9 Oss 19	Argillaceous limestone, calcareous shale
ORDOVICIAN	8 Of2 15	Gneissic and cataclastic granite
	7 Of1 15	Rhyolite and quartz feldspar metaporphry (includes rocks of Ofv1 and Ofv2)
	6 Om1 15	Metagabbro and metadiabase

ORDOVICIAN AND OLDER(?)	5 Os3 15	Dark grey phyllite, graphitic slate, red and green manganeseiferous slate and chert, feldspathic lithic and quartzose greywacke and iron formation, minor limestone and conglomerate
	4 Omv2 15	Metabasalt, pillow metabasalt, basaltic metatuff, minor metarhyolite (may include rocks of Os2, Ofv1, and Ofv2)
	3 Ofv2 15	Quartz and quartz feldspar metaporphry, quartz sericite schist, quartz chlorite sericite schist, crystal metatuff (includes rocks of Os2 and Omv1)
	2 Ofv1 15	Rhyolite metatuff, metaporphry, rhyolite metaporphry, quartz sericite, quartz chlorite sericite schist (includes rocks of Ofv2, Omv, Os1 and Of1)
	1 Os2 15	Grey phyllite, metagabbro, metagreywacke, minor limestone, graphitic schist, hornfels (may include rocks of Os3, Ofv, and Omv)

<sup>1</sup> This geology legend is common for GSC OPEN FILES 1953, 1954, and 1955

\* Map unit number for rock type  
\*\* A mnemonic code assigned to rock type and age recorded as part of field observations

SYMBOLS

Geological boundary	~~~~~
Fault	-----
No data	-----
Single analysis, 10g sample weight	+ 27
Single analysis, <10g sample weight	+ 27*
Repeat analysis, both samples 10g	+ 27(14)
Repeat analysis, first sample 10g, repeat <10g	+ 27(14)*
Single analysis, 10g sample, less than detection limit of 1 ppb	+ <1
Field duplicate site	*

Elevation in feet above mean sea level

Magnetic declination for 1989 ranges from 21°05'W, decreasing 2.8' annually, in the southwest corner of the map area, to 21°29'W, decreasing 3.2' annually, in the northeast corner of the map area.

GOLD (ppb)  
STREAM SEDIMENTS  
GSC OPEN FILE 1954  
NORTH-CENTRAL NEW BRUNSWICK, 1988