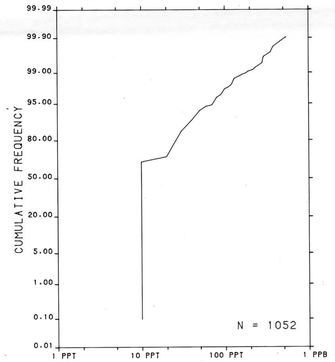
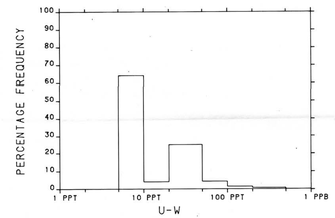
Canada
Department of Energy, Mines and Resources
Geological Survey of Canada

MINERAL DEVELOPMENT DIVISION
DEPARTMENT OF MINES AND ENERGY
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

Government of Newfoundland and Labrador
Department of Mines and Energy
Provincial Open File
13E (41)

URANIUM in water (ppb)
OPEN FILE 901
WEST LABRADOR 1982



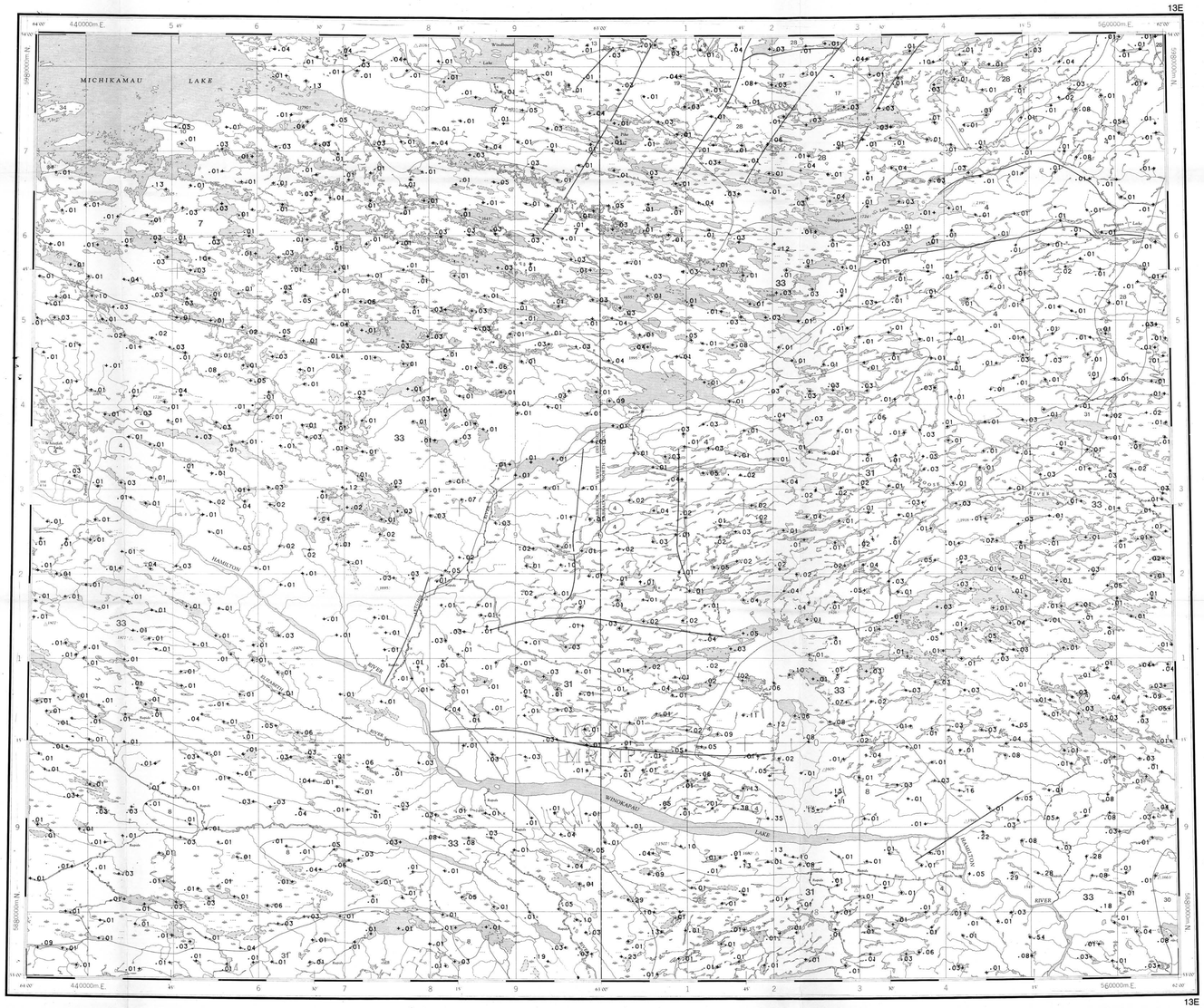


Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

K.G. Campbell Corporation
880 Wellington St.
Bay 238
Ottawa, Ontario
K1R 6K7

The Data is also available in digital form. For further information please contact:

The Director
Computer Science Center
Department of Energy, Mines and Resources
Ottawa, Ontario
K1A 0E4



13E

Note: This legend is common for National Geochemical Reconnaissance Map 54-1982, Open File 901; Map 55-1982, Open File 902; Map 56-1982, Open File 903; Map 57-1982, Open File 904.

SEDIMENTARY, VOLCANIC AND METAMORPHIC ROCKS

HADRYNIAN AND/OR NEOHELIKIAN

34 [HDHL]*, (ARKS)** Red conglomerate, arkose, and siltstone.

GRENVILLE PROVINCE

HELIKIAN AND EARLIER (?)

33 [HUGP] Paragneisses, granitoid gneisses of probable sedimentary origin, minor quartzite and marble. . .

APHEBIAN

32 [APHG] Dolomite, marble, quartzite, iron formation, paraschist and paragneiss. . .

31 [HUGN] Sillimanite gneiss, commonly migmatitic. Minor amphibolite.

30 [HUGG] Granitic gneiss, mainly pink quartzo-feldspathic gneisses, commonly banded and migmatitic. . .

29 [AGWF] Iron formation: WABUSH FORMATION

28 [HUGB] Intermediate to basic gneiss, amphibolite.

27 [HUGA] Garnetiferous gabbroic gneiss.

APHEBIAN AND EARLIER (?)

26 [AUGP], (GRNG) Metasedimentary granitoid gneisses, minor amphibolite, sillimanite gneiss, metaquartzite, marble. . .

25 [AUGN] Sillimanite gneiss, with abundant intrusive pegmatitic material, minor amphibolite.

24 [AUGR] Granulitic, dioritic to granodioritic gneiss.

23 [AUGB] Amphibolite, pyroxene amphibolite, chlorite schist, garnet- and biotite-rich gneisses.

22 [AUGS] Marble.

ARCHEAN

21 [ARCG] Granitic gneiss, amphibolite, unseparated massive acidic intrusives.

SUPERIOR PROVINCE

ARCHEAN

20 [ARCS], (PXGL) Pyroxene granulite, unseparated acidic intrusives: ASHUANIPI COMPLEX.

CHURCHILL PROVINCE

HELIKIAN

NEOHELIKIAN

19 [NHWS] Quartzite, conglomerate, arkose, shale. . .

PALEOHELIKIAN

18 [PHWS], (QRTZ) Quartzite, grit and conglomerate of SIMS FORMATION.

PALEOHELIKIAN AND/OR APHEBIAN

17 [PHAW] Greywacke, quartzite, arkose, slate, phyllite, basic to intermediate volcanic rocks, derived schists and gneisses. . .

APHEBIAN

16 [VAW2], (BSLT) Basaltic flows and pyroclastics, quartzite, greywacke, slate. . . (basic volcanic rocks).

15 [APW1], [VAPW], [UAPW], (SMRK) Grit, arkose, conglomerate, quartzite, greywacke, slate, acidic to basic volcanics. . .

14 [AWIS], (SLTE) Ferruginous slate and iron formation RUTH and COKOMAN FORMATIONS OF KNOB LAKE GROUP.

APHEBIAN AND EARLIER (?)

13 [AUWR], (GRNL) Granulite, pyroxene gneiss, charnockite; minor granitic gneiss, mylonitic gneiss. . .

12 [AUWG], (GRNG) Granitic gneiss, granodioritic gneiss, migmatite, agmatite, amphibolite. . .

11 [AUWB], (AMPB) Amphibolite, pyroxene amphibolite, chlorite schist, garnet- and biotite-rich gneiss.

LEGEND

INTRUSIVE ROCKS

CAMBRIAN AND EARLIER

10 [CM18] Diabase dykes, radiometric ages range from Cambrian to Archean.

HELIKIAN

NEOHELIKIAN

9 [NH17] Diabasic olivine gabbro, intermediate and ultramafic intrusive rocks. . .

NEOHELIKIAN AND EARLIER (?)

8 [NH15] Granite to granodiorite, massive to poorly foliated, porphyritic in part. . .

PALEOHELIKIAN

7 [PH14], (GRNT) Granite, quartz monzonite, granodiorite, quartz ciorite, syenite. . .

6 [PH13], (QZMZ) Adamellite suite: adamellite, monzonite, agenite, granodiorite, granite and their hypersthene. . .

5 [PH11], (ANRS) Anorthosite suite: anorthosite, anorthositic gabbro, leucotroctolite. . .

4 [PH10], (UMFC) Gabbro, norite, anorthosite gabbro, troctolite, diorite, derived basic gneisses and amphibolite. . .

APHEBIAN

3 [AP6W], (GBBR) Gabbro-WAKUACH GABBRO-Gabbro, metagabbro, glomeroporphyritic gabbro and diorite. . .

ARCHEAN

2 [ARC2] Massive granite and quartz monzonite.

1 [ARC1], (PXGD) Massive to poorly foliated pyroxene-bearing granodiorite and syenodiorite.

* A four letter mnemonic name recorded as rock type as part of 1982 field observations.

** A four letter mnemonic name recorded as rock type as part of 1978 field observations.

Geological boundary .....

Fault .....

Mainly acidic volcanic rocks .....^ ^ ^ ^

Mainly basic volcanic rocks .....V V V V

No analytical result .....*

This legend was modified and the geology derived for this geochemical map from Geology Map of Labrador, Mineral Resources Division, Department of Mines, Agriculture and Resources, Province of Newfoundland and Labrador.

Geological Survey of Canada
Resource Geophysics and Geochemistry Division

and

Newfoundland Department of Mines and Energy
Mineral Development Division

CONTRACTORS

Sample collection by Marshall Macklin Monaghan Ltd.
Sample preparation by Golder Associates

1978 samples

Uranium in sediment chemical analyses by Atomic Energy of Canada Ltd.
Other sediment chemical analyses by Chemex Labs Ltd.
Water chemical analyses by Barringer Research Ltd.

1982 samples

Sediment chemical analyses by Chemex Labs Ltd.
Water chemical analyses by Acme Analytical Laboratories Ltd.

This map forms one of a series of 80 maps released by the Geological Survey of Canada, Open Files 901, 902, 903, 904. The Open Files consist of maps for 15 elements, each for lake sediments; 2 elements for lake water, and 1 each for sediment loss-on-ignition, water pH and sample site location.

INDEX MAP

Elevation in feet above mean sea level

Magnetic declination 1983 varies from 27°55.8' westerly at centre of west edge to 28°39.6' westerly at centre of east edge. Mean annual change -12.25' westerly

URANIUM in water (ppb)
OPEN FILE 901

NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 54-1982

CANADA-NEWFOUNDLAND
co-operative mineral program 1982-1984

WEST LABRADOR 1982

Scale 1:250 000 Échelle

Kilometres 6 0 6 12 18 Kilomètres

Universal Transverse Mercator Projection — Projection transverse universelle de Mercator

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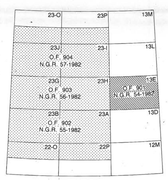
Base-map assembled by the Geological Cartography Unit from maps published at the same scale by the Surveys and Mapping Branch in 1965



N. T. S. REFERENCE

URANIUM in water (ppb)
OPEN FILE 901
WEST LABRADOR 1982

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