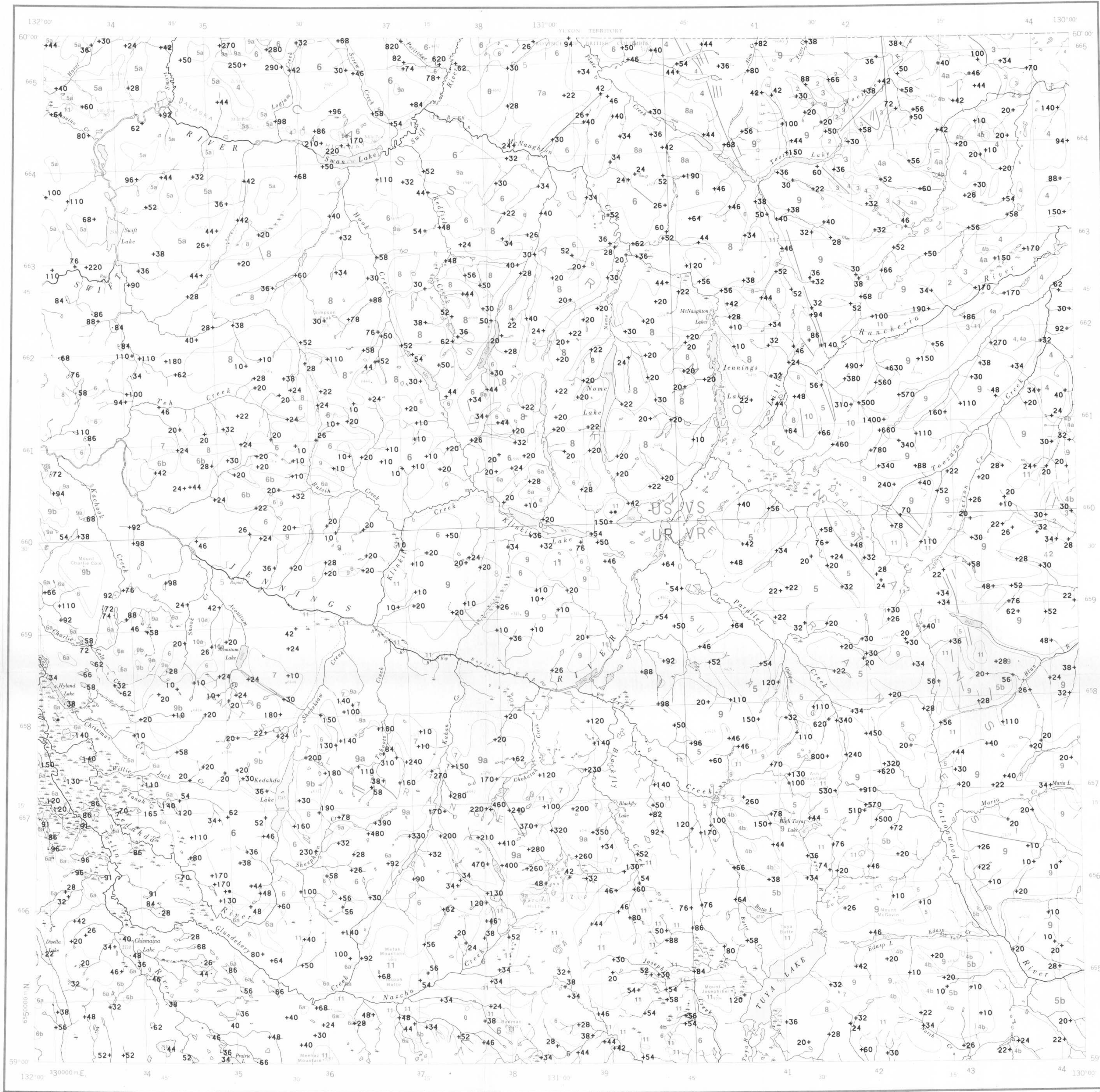


Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

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 Centre
Department of Energy, Mines and Resources
Ottawa, Ontario
K1A 0E4



Elevation in feet above mean sea level

Mean magnetic declination 1978, 30°51.0' East, decreasing 3.2' annually. Readings vary from 30°31.8' in the SE corner to 31°09.0' in the NW corner of the map

Scale 1:250,000
Kilometres 0 6 12 18
Miles 0 4 8

FLUORINE in water (ppb)

OPEN FILE 561

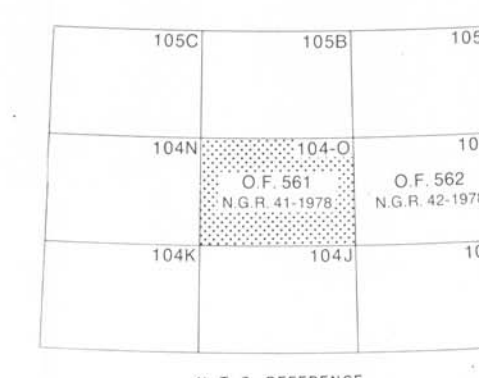
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 41-1978

URANIUM RECONNAISSANCE PROGRAM

STREAM/LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY

NORTHERN BRITISH COLUMBIA 1978

Base-map at the same scale published by the Mapping and Charting Establishment, Department of National Defence, 1952



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FLUORINE in water (ppb)

OPEN FILE 561

NORTHERN BRITISH COLUMBIA 1978

LEGEND

Note: This legend is common for National Geochemical Reconnaissance Map 41-1978, Open File 561 and Map 42-1978, Open File 562.

QUATERNARY

12 (TILL 64)† Glacial, lacustrine, and fluviate gravel, sand salt, clay

QUATERNARY-TERTIARY

11 (TUFF 63) Tuff; 11a (BSLT 63) basalt; 11b (CGLM 56) conglomerate

LATE CRETACEOUS-EARLY TERTIARY

10 (QZM 56) Quartz monzonite

EARLY-MIDDLE CRETACEOUS

9 (QZM 52) Cassiar-Kiinkit-Tuya-Parallel Creek Batholiths: Biotite-quartz monzonite; 9a (GRNT 53) Gundebery Batholith: microlitic hornblende granite, granite porphyry

JURASSIC-CRETACEOUS

9b (QRZ 51) Charlie Cole Stock - Christmas Creek Batholith: hornblende-quartz diorite

UPPER JURASSIC-MIDDLE JURASSIC

8 (QZM 48) Simpson Peak-Nome Lake Batholith: biotite-hornblende-quartz diorite, hornblende-biotite granodiorite; 8a, (QRZ 48) Plate Creek Batholith: quartz diorite

TRIASSIC-JURASSIC

7 (GRNS 46) Shonetak and Nazcha Formations: greenstone, augite porphyry, volcanic conglomerate, tuff; 7a (GRCK 48) feldspathic quartzite, greywacke

PERMIAN-CARBONIFEROUS

6 Kedahda Formation: (CHRT 30) chert, argillite; 6a (LMSN 30) limestone; 6b (GRNS 30) greenstone

CARBONIFEROUS

5 (PLT 30) Oblique Creek Formation: phyllitic meta-chert, phyllitic argillite, micaceous quartzites; 5a (GNSS 30) Big Salmon Complex: gneiss and mica schist, hornfels; 5b (GNSS 30) gneiss, schist

UPPER DEVONIAN-MISSISSIPPIAN

4 (GRNS 29) Sylvester Group: greenstone (and undivided sediments); 4a (CHRT 29) Sylvester Group: chert, argillite, arenite; 4b (SRPN 29) serpentinite, dumite, peridotite

LOWER ORDOVICIAN-SILURIAN-MIDDLE DEVONIAN

3 (DLMT 25) McDame-Sandpile Groups: dolomite, sandy dolomite; 3a (AGCL 14) Kechika Group: argillite; 3b (LMSN 14) limestone, calcareous phyllite

UPPER PROTEROZOIC-CAMBRIAN

2 Atan-Good Hope Groups (LMSN 8) limestone, dolomite; 2a (QRTZ 11) quartzite

UPPER PROTEROZOIC

1 (QRTZ 7) Horseranch Group: quartzite, granite gneiss, augen gneiss

A four letter mnemonic name recorded as rock type and two digit number recorded as age as part of field observations

Geological boundary.....
Fault.....
No analytical result.....
Lake sample site.....
Stream sample site.....

This legend was modified and the geology derived for this geochemical map from Geological Survey of Canada, Maps 18-1968 and 1110 A.

Geological Survey of Canada
Resource Geophysics and Geochemistry Division

and

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

CONTRACTORS

Sample collection by BEMA Ltd.
Sample preparation by Golder Associates
Uranium in sediment chemical analyses by Atomic Energy of Canada Ltd.
Other sediment chemical analyses by Chemex Labs Ltd.
Water chemical analyses by Barringer Magenta Ltd.

This map forms one of a series of 23 maps released by the Geological Survey of Canada, Open File 561 and 562. The Open File consists of maps for 11 elements, each for stream/lake sediments, 1 element for stream/lake water and 1 each for sample site location and water pH.

FLUORINE in water (ppb)

OPEN FILE 561

NORTHERN BRITISH COLUMBIA 1978