

**pH in water**  
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, silt, 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-Klinkit-Tuya-Paralle Creek Batholiths: Biotite-quartz monzonite; 9a (GRNT 53) Glundebery Batholith: miarolitic 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 (PLLT 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, dunite, 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 Magneta 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.

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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:

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

The Director  
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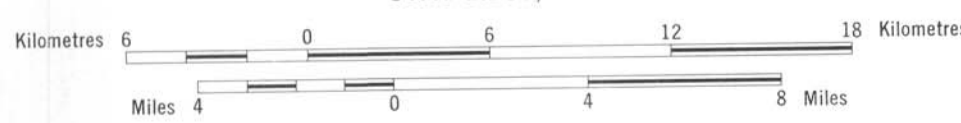
Elevation in feet above mean sea level

Mean magnetic declination 1978, 30°51.0' East, decreasing 3.2' annually. Readings vary from 30°31.6' in the SE corner to 31°09.0' in the NW corner of the map

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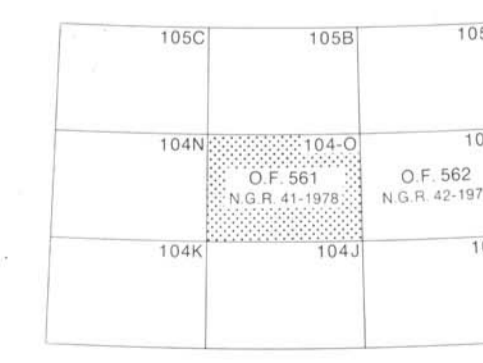
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 41-1978  
URANIUM RECONNAISSANCE PROGRAM  
STREAM/LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY  
NORTHERN BRITISH COLUMBIA 1978

Scale 1:250,000



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



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