

- QUATERNARY OR TERTIARY**  
16 Basalt and basalt breccia (QTvb)
- TERTIARY**  
15 Sandstone, conglomerate and shale (Tscg); 15a, Buff weathering white rhyolite (Tqfp)
- CRETACEOUS**  
14 Quartz-feldspar porphyry dykes (KTqfp); 14a, biotite quartz monzonite (Kqm); 14b, porphyritic biotite quartz monzonite (Kpqm)
- TRIASSIC AND JURASSIC**  
13 Dark grey buff weathering bioclastic limestone (uisc); 13a, dark green volcanoclastic sandstone (uivjv)
- CARBONIFEROUS**  
12 Thin-bedded interlaminated buff to yellowish siltstone and brown argillite (Cs1); 12a, thin-bedded chert and cherty tuff (Mt); 12b, green and maroon tuff and volcanic breccia (Mv); 12c, rusty, black, white and orange weathering lapilli and sand sized tuff, volcanic breccia and flow rocks (Mva); 12d, equigranular syenite and trachyte (My)
- CARBONIFEROUS AND PERMIAN**  
11 Amphibolite, greenstone and altered basalt (CPav); 11a, dunite, peridotite and pyroxenite (CPav); 11b, serpentinite (CPAs); 11c, gasper-red and apple-green chert and cherty tuff (CPAt); 11d, recrystallized crinoidal limestone (Pc)
- DEVONIAN AND MISSISSIPPIAN**  
10 Chert granule grit and chert pebble conglomerate (uMcg); 10a, black siliceous slate with interbedded chert granule grit and greywacke (uMS)
- DEVONIAN (UPPER)**  
9 Basalt, basaltic tuff and breccia; calcareous calcarinite (Dvc); 9a, fetid crinoidal limestone with minor interbedded slate (Dc)
- SILURIAN AND LOWER DEVONIAN**  
8 Dolomite, sandy dolomite and dolomitic sandstone (SDdq); 8a, dolomitized laminated mudstone to sucrose dolomite and dolomitized calcarenite (SD); 8b, coarsely sucrose dolomite and sandy dolomite (SDd1); 8c, crinoidal limestone and dolomite (SDc); 8d, calcareous siltstone and calcareous orthoquartzite (SDsq)
- SILURIAN**  
7 Dolomitic siltstone and silty dolomite (Ss); 7a, lapilli tuff and volcanic breccia with interbedded bioclastic limestone (Sv); 7b, algal laminate and sparry dolomite, orthoquartzite and sandy dolomite (Sd); 7c, medium-grained mature orthoquartzite (Sq); 7d, laminated to sucrose dolomite (Sd); 7e, thinly laminated white and green hornfels (Sshf)
- ORDOVICIAN, SILURIAN AND DEVONIAN**  
6 Dark grey to black "sooty" limey or dolomitic graphitic siltstone and fine grained impure quartzite with interbedded graphitic silty shale (OSDqc)
- ORDOVICIAN AND SILURIAN**  
5 Black, locally calcareous fissile graphitic slate; includes thin sills or flows of dark green basalt (OSs1); 5a, quartz biotite and quartz chlorite schist and chlorite amphibolite (OSs1v); 5b, black graphitic siliceous and pyritic slate (OSs1q); 5c, black calcareous graphitic "sooty" slate and silty slate (OSs1c)
- CAMBRIAN AND ORDOVICIAN**  
4 Grey chlorite muscovite quartz phyllite containing lenses of greenstone (uOS1v); 4a, grey chlorite muscovite quartz phyllite and slaty phyllite (uOS1); 4b, calcareous shale and silty limestone (uOC); 4c, ankeritic shale, slate and phyllitic slate (uOC2); 4d, olive green tuff and tuffaceous slate (uOV); 4e, massive dark green and maroon amygdaloidal basalt (uOVb); 4f, massive saussuritized dark green diabase or diorite sills (uOVd); 4g, medium to dark grey calcareous shale, siltstone and argillaceous limestone (uOSDs1)
- LOWER CAMBRIAN**  
3 Coarsely crystalline dolomite (lCd); 3a, grey calcareous argillite, limestone and calcareous siltstone; locally includes biotite schist and quartz tremolite diopside skarn (lC); 3b, grey limestone and argillaceous limestone (lC1); 3c, marble, recrystallized lime mud and bioclastic limestone (lC2)
- PROTEROZOIC AND/OR LOWER CAMBRIAN**  
2 Muscovite biotite granodiorite gneiss (Egs); 2a, muscovite biotite granodiorite gneiss and augen gneiss (Eg); 2b, injection migmatite consisting of muscovite biotite gneiss, augen gneiss and schist with sills and plugs of biotite granite, biotite quartz monzonite, apite and pegmatite (Eg+); 2c, silty slate and shaly quartzite (E1Cgs); 2d, muscovite biotite schist, garnet mica quartz schist and micaceous quartzite with minor amphibolite (E1Cs); 2e, silty slate with some interbedded greywacke (E1Csg); 2f, banded hornfels (E1Chf)
- AGE UNKNOWN (KLONDIKE SCHIST)**  
1 Light grey weathering marble (Mc); 1a, muscovite quartz blastomylonite, muscovite quartz schist and muscovite quartzite (EPk1); 1b, black siliceous phyllite and amphibole chlorite phyllite (EPk2); 1c, klondike schist undivided (EPk)

Geological boundary.....  
Fault.....  
No analytical result.....

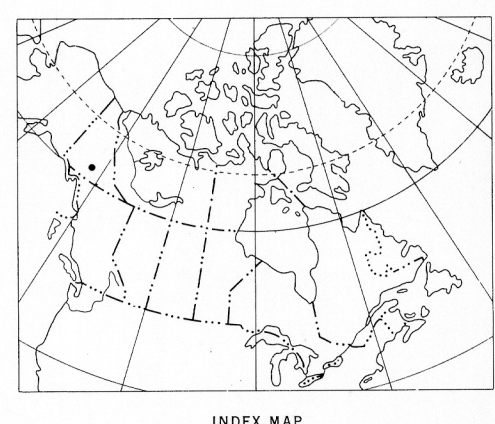
This legend was modified and the geology derived for this geochemical map from Geological Survey of Canada, Open File 468

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, 32°17.7' East, decreasing 3.1' annually. Readings vary from 32°03.6' in the SE corner to 32°30.6' in the NW corner of the map

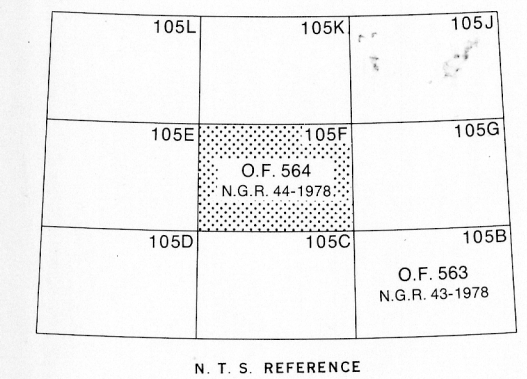
**BARIUM (ppm)**  
OPEN FILE 564  
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 44-1978  
**URANIUM RECONNAISSANCE PROGRAM**  
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY  
SOUTHERN YUKON TERRITORY 1978

Scale 1:250,000

Kilometres 6 0 6 12 18 Kilometres  
Miles 4 0 4 8 Miles

Universal Transverse Mercator Projection  
© Crown Copyrights reserved

Base-map at the same scale published by the Mapping and Charting Establishment, Department of National Defence, 1977



Geological Survey of Canada  
Resource Geophysics and Geochemistry Division

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 45 maps released by the Geological Survey of Canada, Open Files 563, 564 and 565. Each Open File consists of maps for 12 elements for stream sediments, 1 element for stream waters, and 1 each for sample site location and water pH

**BARIUM (ppm)**  
OPEN FILE 564  
SOUTHERN YUKON TERRITORY 1978

This document was produced by scanning the original publication.  
Ce document est le produit d'une numérisation par balayage de la publication originale.