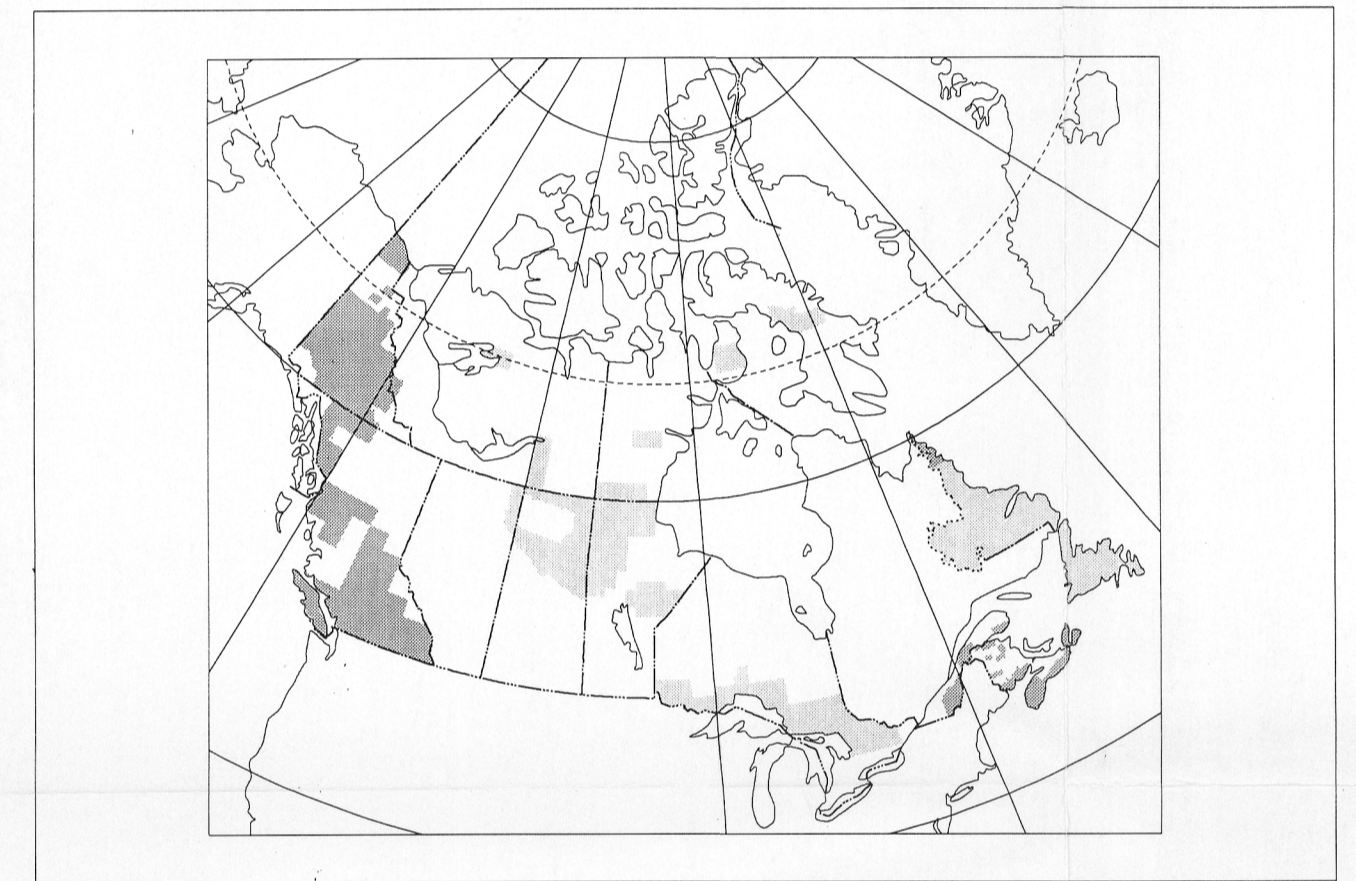


National Topographic System reference and index to adjoining geochemical reconnaissance surveys

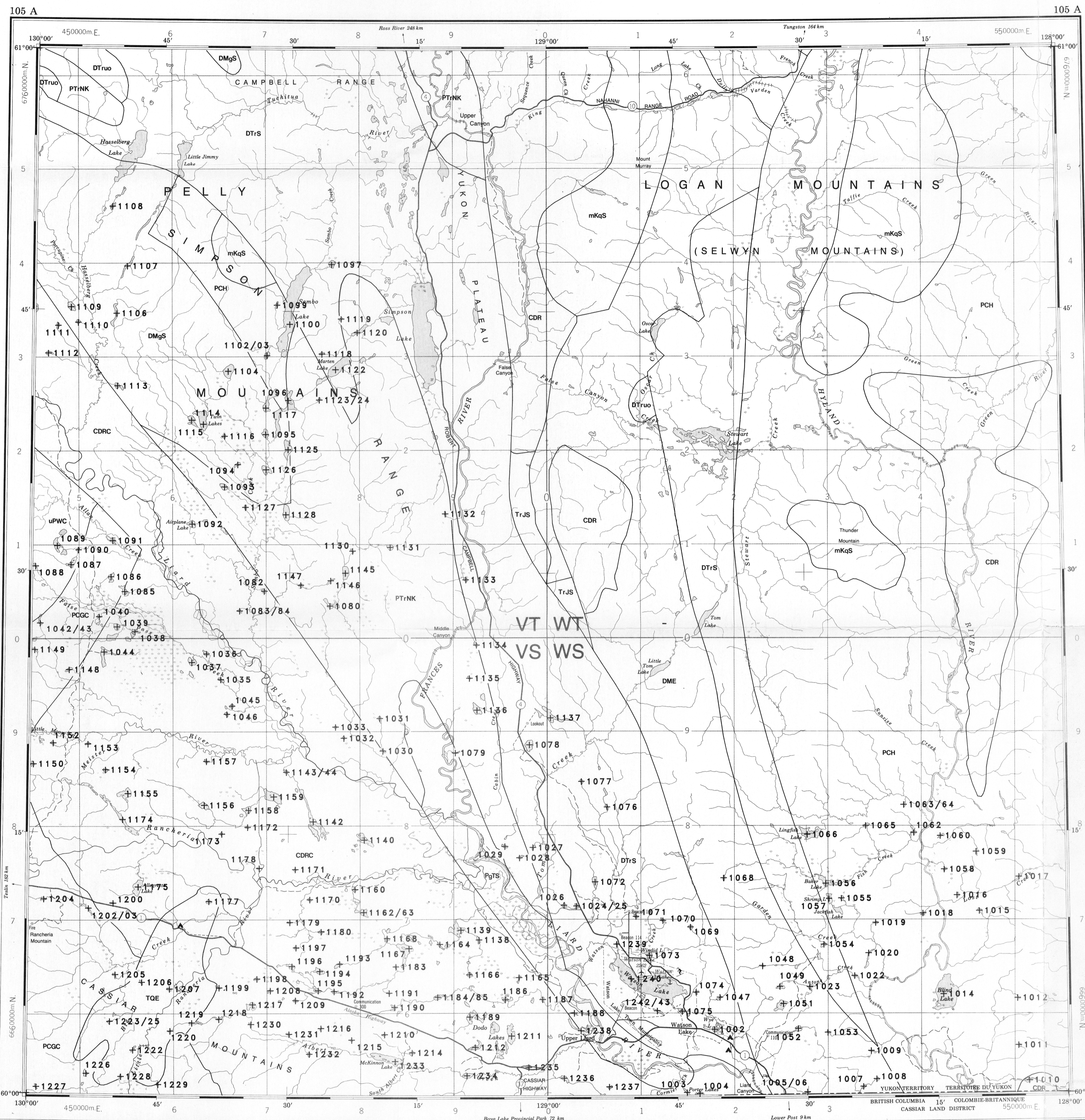
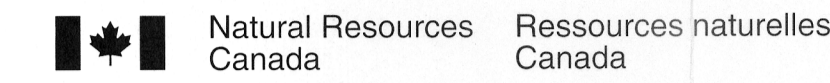


Drainage surveys to National Geochemical Reconnaissance standards

**GEOLOGICAL SURVEY OF CANADA  
MINERAL RESOURCES DIVISION  
APPLIED GEOCHEMISTRY SUBDIVISION**

**CONTRACTORS**

- Collection: Northway Map Technology Limited  
Don Mills, Ontario
- Preparation: Bondar-Clegg & Company  
Gloucester, Ontario
- Analysis: Bondar-Clegg & Company  
Gloucester, Ontario
- Bequerel Laboratories, Limited  
Mississauga, Ontario
- CanTech Laboratories, Inc.  
Calgary, Alberta



**SAMPLE LOCATION  
LAKE SEDIMENTS  
GSC OPEN FILE 2860  
SOUTHEAST YUKON 1994**

**LEGEND**

- CENOZOIC**
- Tertiary and Quaternary**
- TQE** alkali basalt and peralkaline trachyte-comendite shield volcanoes; alkali olivine basalt cones with lherzolite nodules; flows and tuyas; nonmarine
- Palaeogene**
- PgTs** shale, siltstone, sandstone, conglomerate, local lignite, marl and dacitic volcanics; nonmarine
- MESOZOIC**
- Triassic - Jurassic**
- TrJS** Jurassic shale, organic-rich paper shale, sandstone, phosphatic and cherty limestone; Triassic shoaling-upward marine siltstone, sandstone, limestone, dolostone, collapse breccia, rare gypsum; marine
- PALAEOZOIC**
- Devonian - Triassic**
- DTrS** variably sheared, ophiolite-like assemblage of oceanic, alkalic to transitional pillowed basalt, tuff, breccia, serpentized peridotite and gabbro, radiolarian chert, argillite and volcanic clastics; marine
- Devonian - Mississippian**
- DME** westerly-derived, chert-pebble conglomerate, chert-quartz sandstone, pebbly mudstone, blue-black siliceous shale, locally containing barite, brown shale, alkaline trachyte and rhyolite flows, breccia, tuff, pillow basalt and breccia; chert and limestone; marine and nonmarine
- Upper Proterozoic - Triassic**
- PTrNK** sheared conglomerate with lenses of Upper Triassic limestone and sandstone and clasts of gneissic granites and metamorphic rocks and Upper Triassic and Paleozoic carbonate; Pennsylvanian and Permian carbonate, and chloritic quartz grit; Lower Mississippian felsic metavolcanics, dark grey phyllite and quartzite, and older micaceous feldspathic quartzite, schist, marble; all variably mylonitized; marine
- Cambrian - Devonian**
- CDR/CDRC** resistant dolomite, limestone, and local sandstone interbedded with recessive red, green, and grey shale and detrital carbonate that together form several carbonate-shale grand cycles. These pass westward into offshore shale, siltstone and thin-bedded carbonate with minor alkalic tuff, breccia and amygdaloidal basalt of Cambrian, Cambro-Ordovician, Silurian, and Devonian ages but mainly of Ordovician age; marine
- Upper Proterozoic - Lower Cambrian**
- PCH** upper unit: blue-grey, apple-green and maroon slate with minor siltstone and sandstone; lower unit: interbedded graded sequence of sandstone, locally conglomeratic, and shale with limestone in upper part; marine
- PCGC** shallow-water crossbedded orthoquartzite, feldspathic quartzite, locally graded-bedded quartzite, quartz-pebble conglomerate, mafic flows, breccia and tuff overlain by interbedded quartzite, siltstone, shale, and limestone with archeocyathid reefs; metamorphic equivalents; marine
- PRECAMBRIAN**
- Upper Proterozoic**
- uPWC** graded-bedded assemblage of interbedded quartz-feldspar grit, sandstone, siltstone and shale, commonly maroon and green; diamictite in Rocky Mountains, limestone in upper part, local greenstone flows, breccia and tuff, and metamorphic equivalents; marine
- Plutonic and Ultramafic Rocks**
- MESOZOIC**
- Mid-Cretaceous (87-130 Ma)**
- mKqS** Selwyn: subalkaline, calc-alkaline, discordant, biotite- and lesser muscovite or hornblende-bearing quartz monzonite, granite, and granodiorite
- PALAEOZOIC**
- Devonian - Triassic**
- DTruo** oceanic ultramafic rocks commonly elongate plutons of reddish brown to khaki weathering dunite, olivine-orthopyroxene peridotite (harzburgite), pyroxenite; commonly serpentized
- Devonian - Mississippian**
- DMgS** Simpson Range: older, megacrystic, hornblende-biotite granodiorite and quartz diorite and younger, pinkish, hornblende-biotite quartz monzonite of Simpson Allochthon; variably foliated biotite-hornblende granodiorite (Selwyn Gneiss); and banded, gneissic biotite quartz monzonite with potash feldspar augen (Fifty Mile). Affinities with I-type granites
- Geological contact: .....

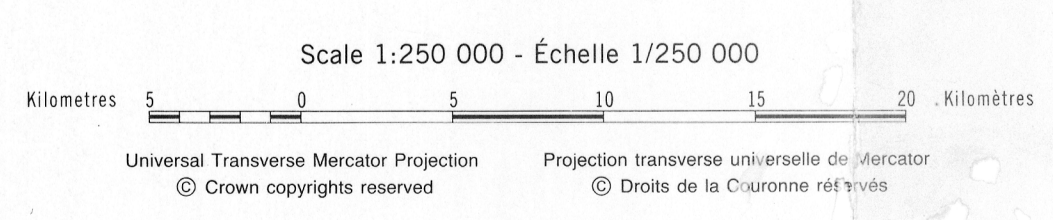
**Reference**

Wheeler, J.O. and McFeely, P. (comp.) (1991) Tectonic Assemblage Map of the Canadian Cordillera and adjacent parts of the United States of America; Geological Survey of Canada, Map 1712A, scale 1:2 000 000.



**SAMPLE LOCATION  
LAKE SEDIMENTS  
GSC OPEN FILE 2860  
CANADA - YUKON MINERAL RESOURCE  
DEVELOPMENT COOPERATION AGREEMENT  
(1991 - 1996)**

LAKE SEDIMENT AND WATER GEOCHEMICAL DATA  
SOUTHEAST YUKON 1994



**SAMPLE LOCATION  
LAKE SEDIMENTS  
GSC OPEN FILE 2860  
SOUTHEAST YUKON 1994**

