

The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function ( $1/d^2$ ) to filter out minor irregularities and emphasize broad-scale regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically enriched, or large metallic deposits undergoing weathering would be expected to produce identifiable anomalies.

Geological Survey of Canada  
 Resource Geophysics and Geochemistry Division  
 CONTRACTORS  
 Sample collection by Rogers Exploration Services Ltd., Whitehorse  
 Sample preparation by Golder Associates, Ottawa  
 Gold analysis by Chemex Labs Limited, Vancouver, B.C.  
 Sediment chemical analyses by Barringer Magenta Ltd., Rexdale, Ontario  
 Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

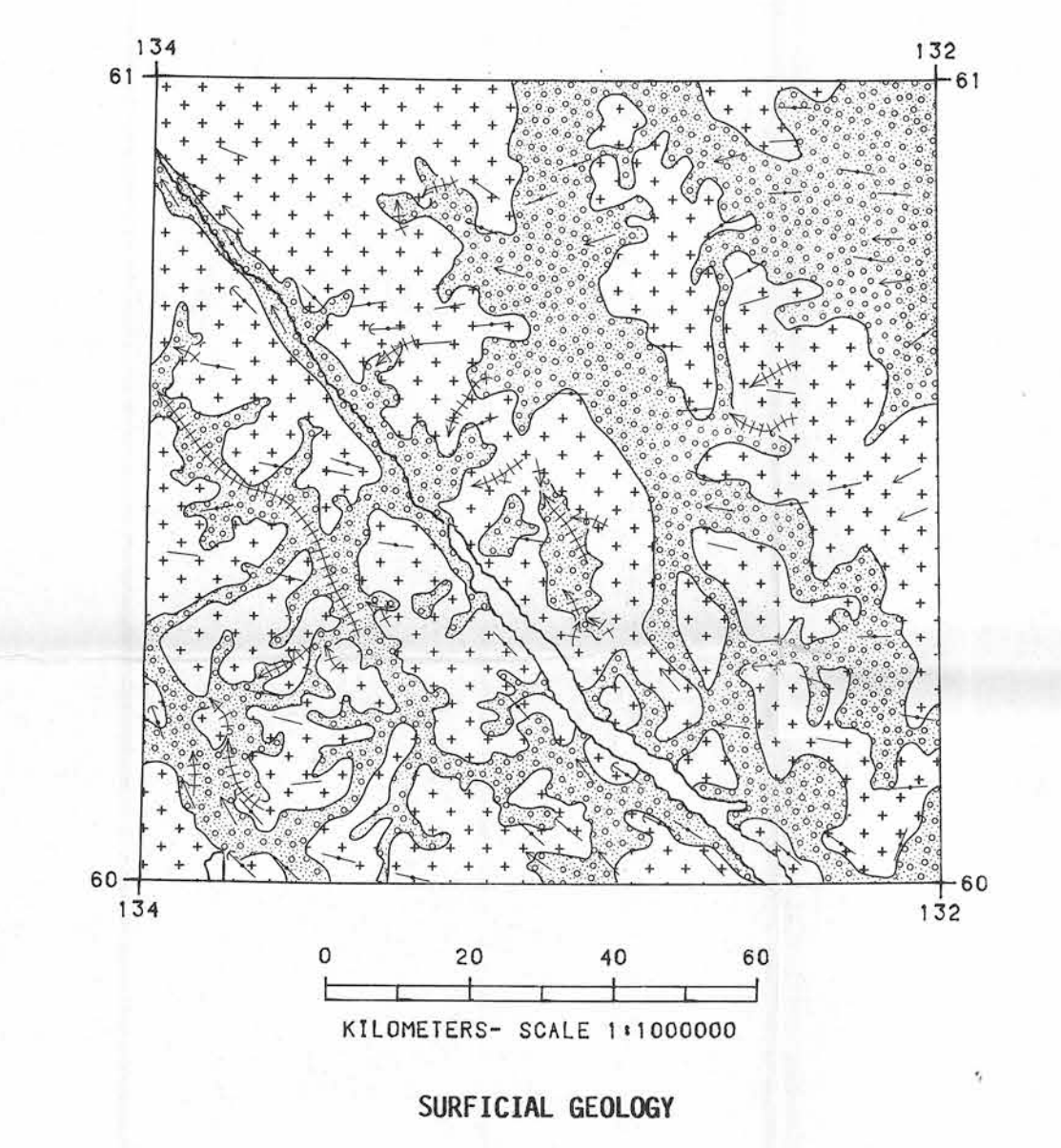
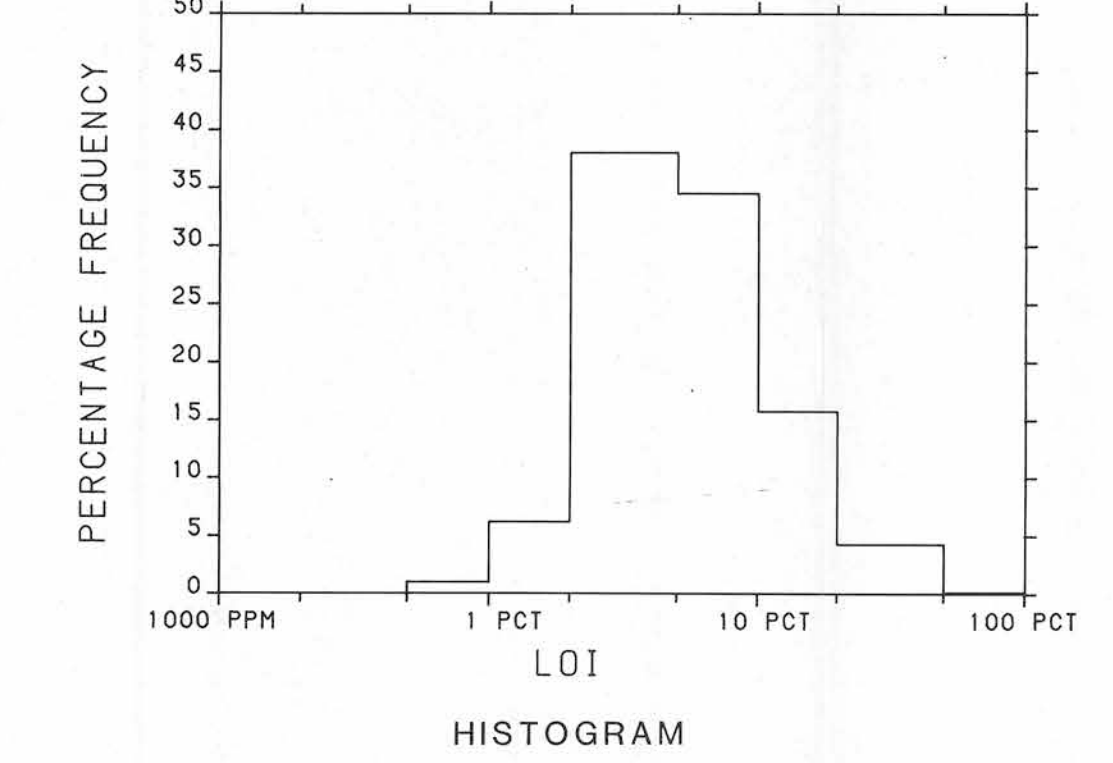
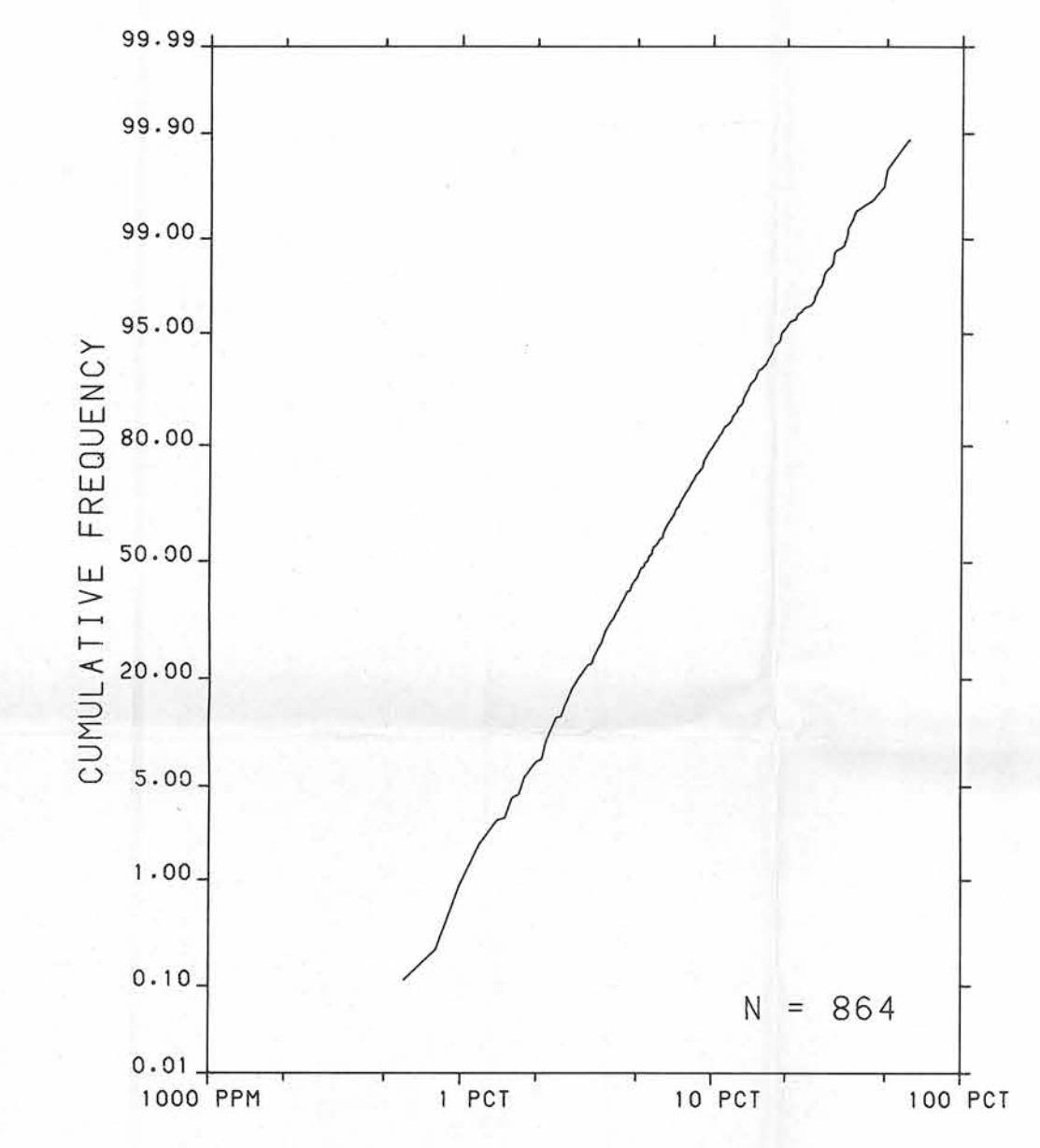
This map forms one of a series of maps released by the Geological Survey of Canada, Open Files 1217 to 1220. Each Open File consists of maps of various geochemical variables: 21 for stream sediment, 3 for stream water and 1 sample site location

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 are also available in digital form. For further information please contact:

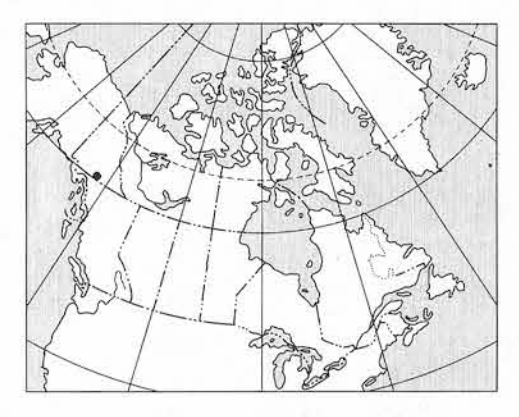
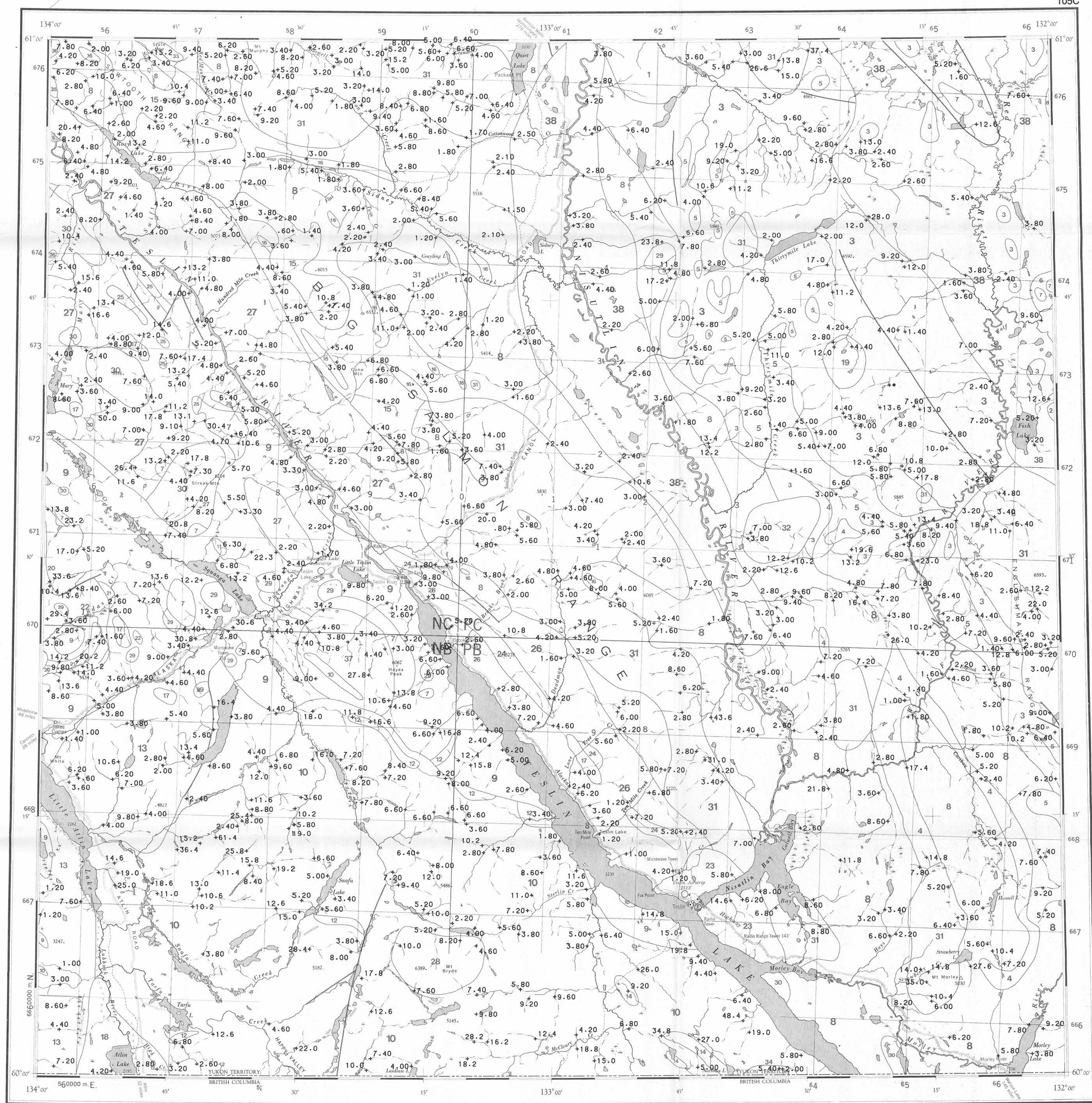
The Director  
 Computer Science Centre  
 Department of Energy, Mines and Resources  
 Ottawa, Ontario  
 KIA 0E4



- SYMBOLS
- Undivided surficial deposits; includes alluvium, glacial till, ground moraine, outwash and ice contact deposits, colluvium.
  - Bedrock exposures; includes discontinuous veneer of undivided glacial drift, local alpine glaciation features.

- Surficial deposit boundary . . . . .
- Meltwater channels, outwash deposits, indicating direction of flow . . . . .
- Glaciation lineation parallel to ice flow direction, includes fluting, crag and tail, roches moutonnées and drumlinoid forms, direction of flow known, unknown . . . . . //
- Drumlinoid form, direction of movement inferred, not inferred . . . . . //

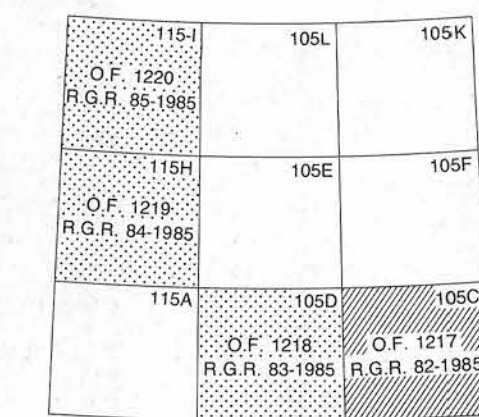
Sources of information:  
 Hughes, O.L., Campbell, R.B., Muller, J.E., and Wheeler, J.O. (1968) Glacial Map of Yukon Territory, Geological Survey of Canada, Map 6-1968, (1:1 000 000 scale) to accompany GSC Paper 68-34.  
 Mulligan, R. (1963) Geology TESLIN, Yukon Territory, Geological Survey of Canada, Map 1125A (1:253 440 scale).  
 Prest, V.K., Grant, D.R., and Rampton, V.N. (1967) Glacial Map of Canada, Geological Survey of Canada (1:5 000 000 scale).



Elevation in feet above mean sea level  
 Mean magnetic declination 1986, 29°38' East, decreasing 15.3' annually. Readings vary from 29°23' E in the SE corner to 29°50' E in the NW corner of the map area

LOSS ON IGNITION (%)  
 GSC OPEN FILE 1217  
 REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 82-1985  
 CANADA-YUKON  
 MINERAL DEVELOPMENT AGREEMENT (1984-89)  
 STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY  
 SOUTHERN YUKON TERRITORY, 1985  
 Scale 1:250 000

Base map at the same scale published by the Surveys and Mapping Branch in 1979  
 Streams were revised by the Geological Survey of Canada for this edition



- LEGEND
- QUATERNARY  
 38 QS 64\* Glacial and surficial deposits
- TERTIARY  
 LATE TERTIARY  
 37 LTG 62 Rhyolite porphyry, granite, granodiorite  
 PLIOCENE  
 36 PV 62 Basalt  
 EOCENE  
 MOUNT NAKSEN GROUP  
 35 ENM 59 Acid to intermediate tuff, breccia  
 SLOKO GROUP  
 34 ESL 59 Rhyolite, trachyte  
 CRETACEOUS AND TERTIARY  
 33 KTVO 56 Andesite and dacite porphyry
- CRETACEOUS  
 32 KY 52 Syenite, monzonite  
 31 KQM 52 Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite  
 30 KGD 52 Granodiorite
- JURASSIC AND CRETACEOUS  
 29 JKDI 51 Diorite, hornblende diorite  
 28 JKB 51 Gabbro, diorite, some ultramafic rocks
- TRIASSIC AND JURASSIC  
 27 TJS 46 Argillite, sandstone, siltstone  
 26 TJSV 46 Volcanic and sedimentary rocks  
 25 TJC 46 Limestone  
 24 TJPV 46 Augite, hornblende feldspar porphyry
- TRIASSIC  
 23 TV 42 Basaltic greenstone
- UPPER TRIASSIC  
 LEWES RIVER GROUP (UTLM, UTL, UTLV)  
 22 UTLM 45 Greywacke, argillite, conglomerate  
 21 UTC 45 Limestone  
 20 UTLV 45 Andesite, basalt
- MESOZOIC UNDIVIDED  
 19 MGD 41 Foliated diorite, quartz monzonite  
 18 MGDN 41 Foliated hornblende granodiorite, quartz monzonite
- PERMIAN AND TRIASSIC  
 17 PTUB 40 Pyroxenite, serpentinite
- PALEOZOIC UNDIVIDED  
 16 PC 09 Limestone  
 15 PGDN 09 Pelly Gneiss: Foliated to gneissic granodiorite
- PERMIAN  
 14 PT 36 TESLIN: Limestone
- CARBONIFEROUS AND PERMIAN  
 13 CPH 35 HORSEFEED: Limestone  
 12 CPKC 35 KEDAHDA: Limestone  
 11 CPC 35 Limestone  
 10 CPK 35 KEDAHDA: Chert, argillite  
 9 CPV 35 Andesite, basalt, chert, tuff  
 8 CPNS 35 Schist, gneiss; includes BIG SALMON METAMORPHIC COMPLEX  
 7 CPUB 35 Serpentinite, diorite, pyroxenite, peridotite
- PENNSYLVANIAN  
 6 PCG 33 Limestone
- MISSISSIPPIAN  
 5 MC 34 Limestone
- CARBONIFEROUS  
 4 CE 30 Limestone  
 ENGLISHMANS GROUP  
 3 CE 30 Quartzite, phyllite, schist, chert, conglomerate, limestone  
 2 CTP 30 Chert, argillite, phyllite, quartzite
- SILURIAN AND DEVONIAN  
 1 SDQJ 24 Dolomite, quartzite, argillite

\*A mnemonic code assigned to rock types and recorded as part of field observations

Geological boundary . . . . .

Fault . . . . .

No analytical result . . . . .

Geological base and legend are derived from: Map 1390A, MACKILLAN RIVER, YUKON - DISTRICT OF MACKENZIE - ALASKA, NTS SHEET 105, 115. Compiled by H. Gabrielse, D.J. Tempelman-Kluit, S.L. Blusson and R.B. Campbell, Geological Survey of Canada, Energy, Mines and Resources Canada, 1980. 1:1 000 000 scale