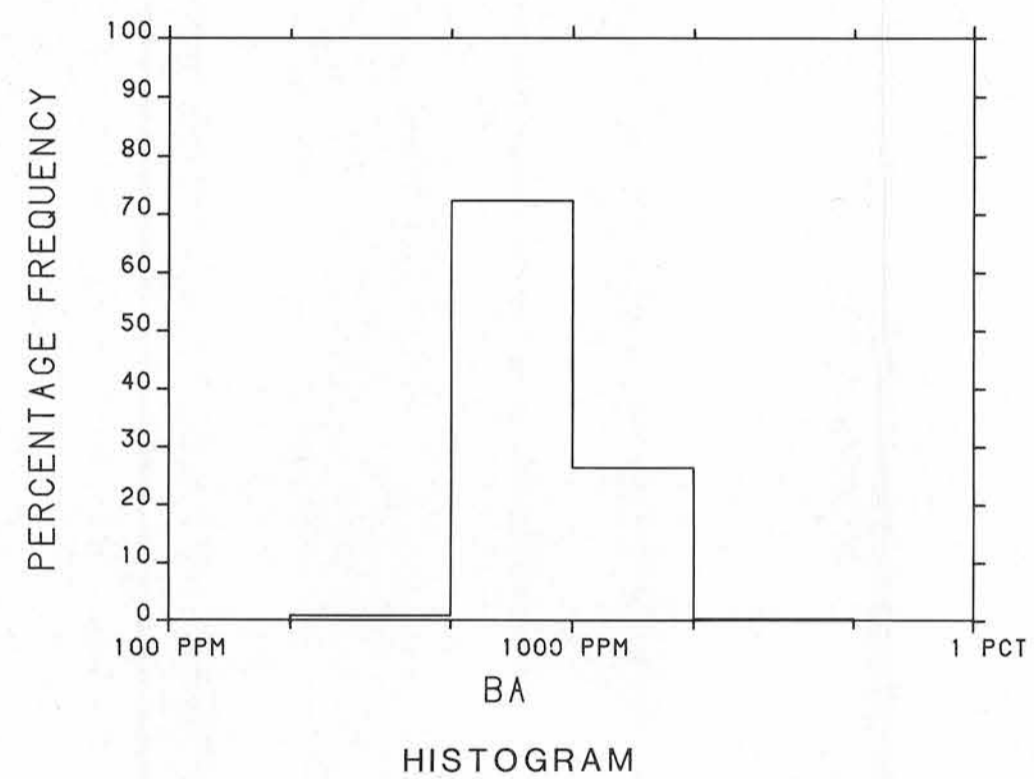
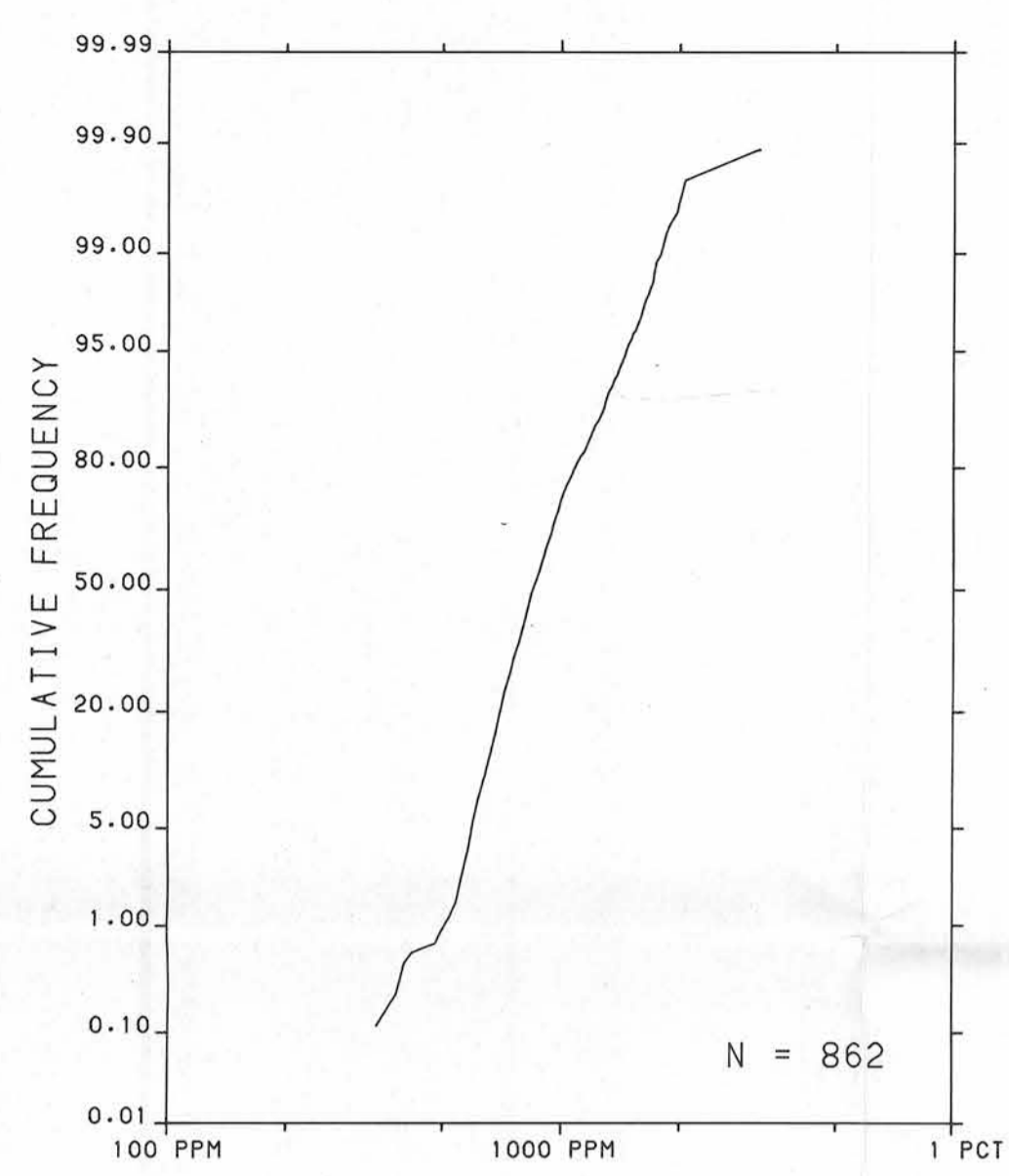


The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function (1/d²) to filter out minor irregularities and emphasize broad-scale regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically 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

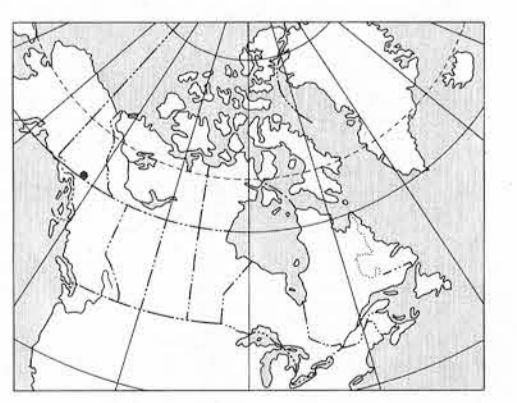
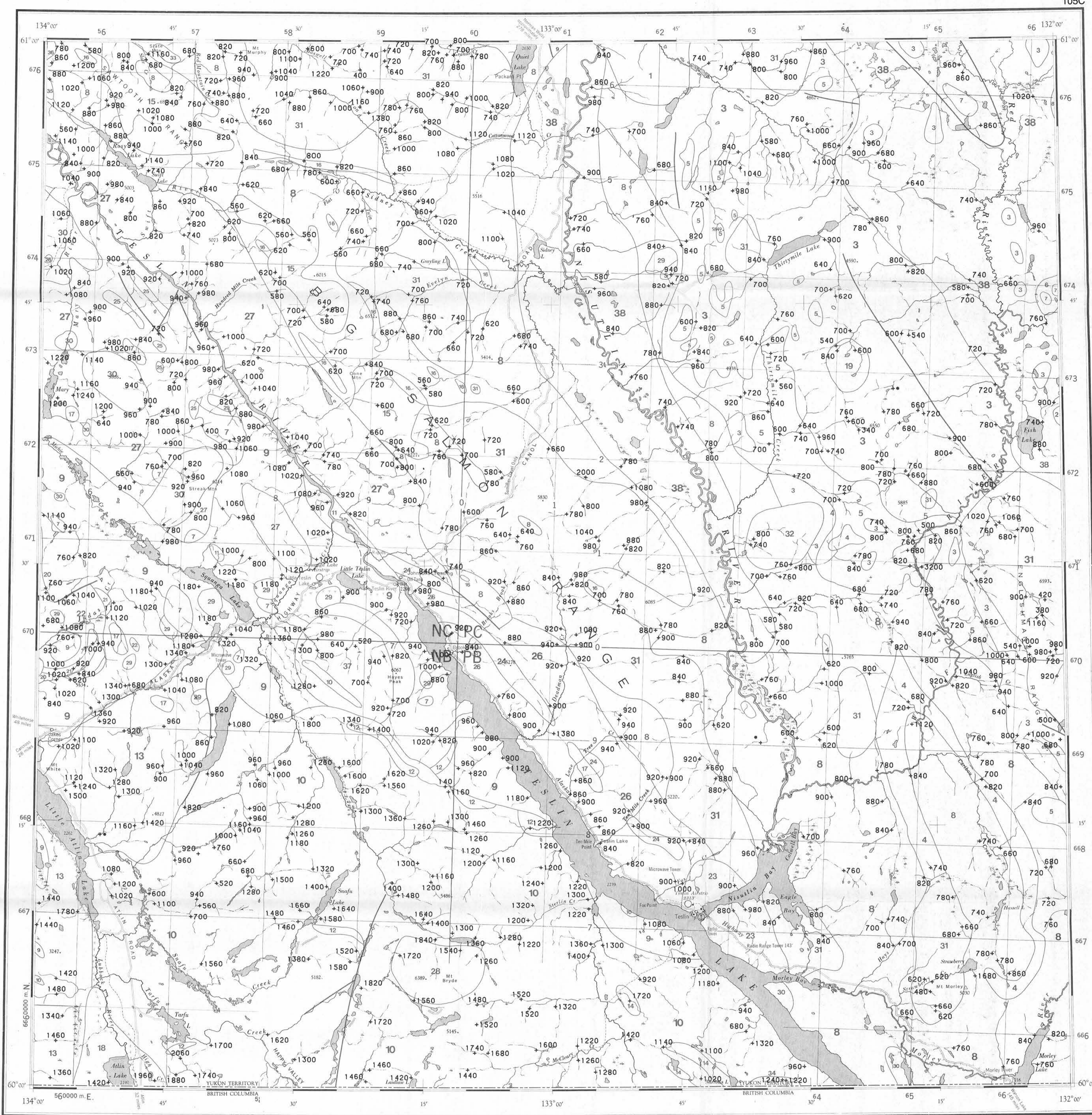
The data are also available in digital form. For further information please contact:

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

- 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.

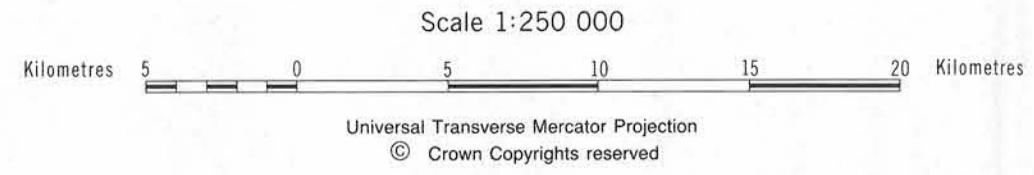
- SYMBOLS**
- Surficial deposit boundary
 - Meltwater channels, outwash deposits, indicating direction of flow
 - Glaciation lineation parallel to ice flow direction, includes fluting, crag and tail, roches moutonnées and drumlinoid forms, direction of flow known, unknown
 - Drumlinoid form, direction 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).

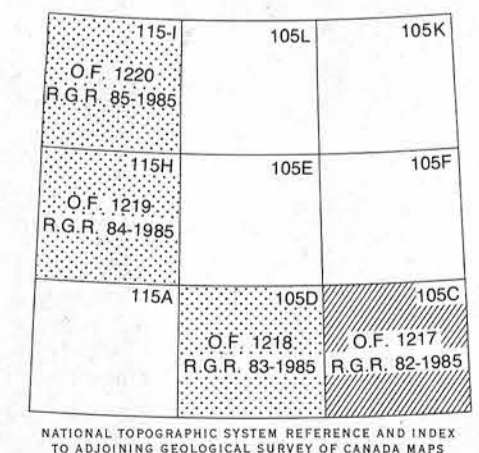


Elevation in feet above mean sea level
 Mean magnetic declination 1985, 29°30' East, decreasing 15.3' annually. Readings vary from 29°23' E in the SE corner to 29°50' E in the NW corner of the map area

BARIUM (ppm)
 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



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 LT6 62 Rhyolite porphyry, granite, granodiorite
 - PLIOCENE
 - 36 PV 62 Basalt
 - Eocene
 - MOUNT NANSEN GROUP
 - 35 ENM 59 Acid to intermediate tuff, breccia
 - SLOKO GROUP
 - 34 ESL 59 Rhyolite, trachyte
 - CRETACEOUS AND TERTIARY
 - 33 KTVD 56 Andesite and dacite porphyry
 - CRETACEOUS
 - 32 KY 52 Syenite, monzonite
 - 31 KQM 52 Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite
 - JURASSIC AND CRETACEOUS
 - 30 KGD 52 Granodiorite
 - TRIASSIC AND JURASSIC
 - 29 JKD 51 Diorite, hornblende diorite
 - 28 JKB 51 Gabbro, diorite, some ultramafic rocks
 - TRIASSIC
 - 27 TJS 46 Argillite, sandstone, siltstone
 - 26 TJSV 46 Volcanic and sedimentary rocks
 - 25 TJC 46 Limestone
 - 24 TJVP 46 Augite, hornblende feldspar porphyry
 - TRIASSIC
 - 23 TV 42 Basaltic greenstone
- UPPER TRIASSIC**
- LENES RIVER GROUP (UTLM, UTC, UTLV)
 - 22 UTLW 45 Greywacke, argillite, conglomerate
 - 21 UTC 45 Limestone
 - 20 UTLV 45 Andesite, basalt
- MESOZOIC UNDIVIDED**
- 19 MGD 41 Granodiorite, 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 PGDM 09 PELY 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 CPM 35 Schist, gneiss; includes BIG SALMON METAMORPHIC COMPLEX
 - 7 CPUB 35 Serpentinite, diorite, pyroxenite, peridotite
- PENNSYLVANIAN**
- 6 PGC 33 Limestone
- MISSISSIPPIAN**
- 5 MC 34 Limestone
- CARBONIFEROUS**
- 4 CC 30 Limestone
- ENGLISHMANS GROUP**
- 3 CE 30 Quartzite, phyllite, schist, chert, conglomerate, limestone
 - 2 CTP 30 Chert, argillite, phyllite, quartzite
- SILURIAN AND DEVONIAN**
- 1 SDQC 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 1398A, 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