

SURFICIAL GEOLOGY

- Thermokarst depression developed on alluvial floodplain
- Organic deposits mantling lacustrine floodplain of silt and clay, or less commonly, moraine or eolian deposits
- Undivided surficial deposits; includes alluvium, glacial till, glaciofluvial and glaciolacustrine deposits, ice contact deposits, colluvium, volcanic ash, loess, and scattered bedrock exposures.
- Glacial ice, snow, and firn veneer with seasonal bedrock exposures.
- Bedrock exposures; includes discontinuous veneer of undivided glacial drift, local alpine glaciation features.

Symbols

- Surficial deposit boundary
- Major meltwater channels, outwash deposits, indicating direction of flow
- Glacial lineation parallel to ice flow direction, includes fluting, crag and tail, roches moutonnées and drumlinoid forms, direction of flow indicated
- Drumlinoid form; rock drumlin, crag and tail, fluted bedrock or till, direction of movement inferred, not inferred
- Esker, direction of flow indicated

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.
Muller, J.E. (1966) Geology Klane Lake - Yukon Territory, Geological Survey of Canada Map 177A, (1:253 440 scale), to accompany GSC Memoir 340.
Prest, V.K., Grant, D.R., and Rampton, V.N. (1957) Glacial Map of Canada, Geological Survey of Canada (1:5 000 000 scale).
Rampton, V.N. (1977) Surficial Geology and Geomorphology, Burwash Creek - Yukon Territory, Geological Survey of Canada, Map 6-1978, 1:100 000 scale.
Surficial Geology and Geomorphology, Generc River - Yukon Territory, Geological Survey of Canada, Map 7-1978, 1:100 000 scale.
Surficial Geology and Geomorphology, Congdon Creek - Yukon Territory, Geological Survey of Canada, Map 8-1978, 1:100 000 scale.

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CONTRACTORS

- Sample collection by Monaghan Delph Miller Limited, Don Mills, Ontario
- Sample preparation by Golder Associates, Ottawa
- Sediment chemical analyses by Bondar Clegg and Company Ltd., Ottawa, Ontario

Analyses by Chemex Labs Limited, Vancouver
Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

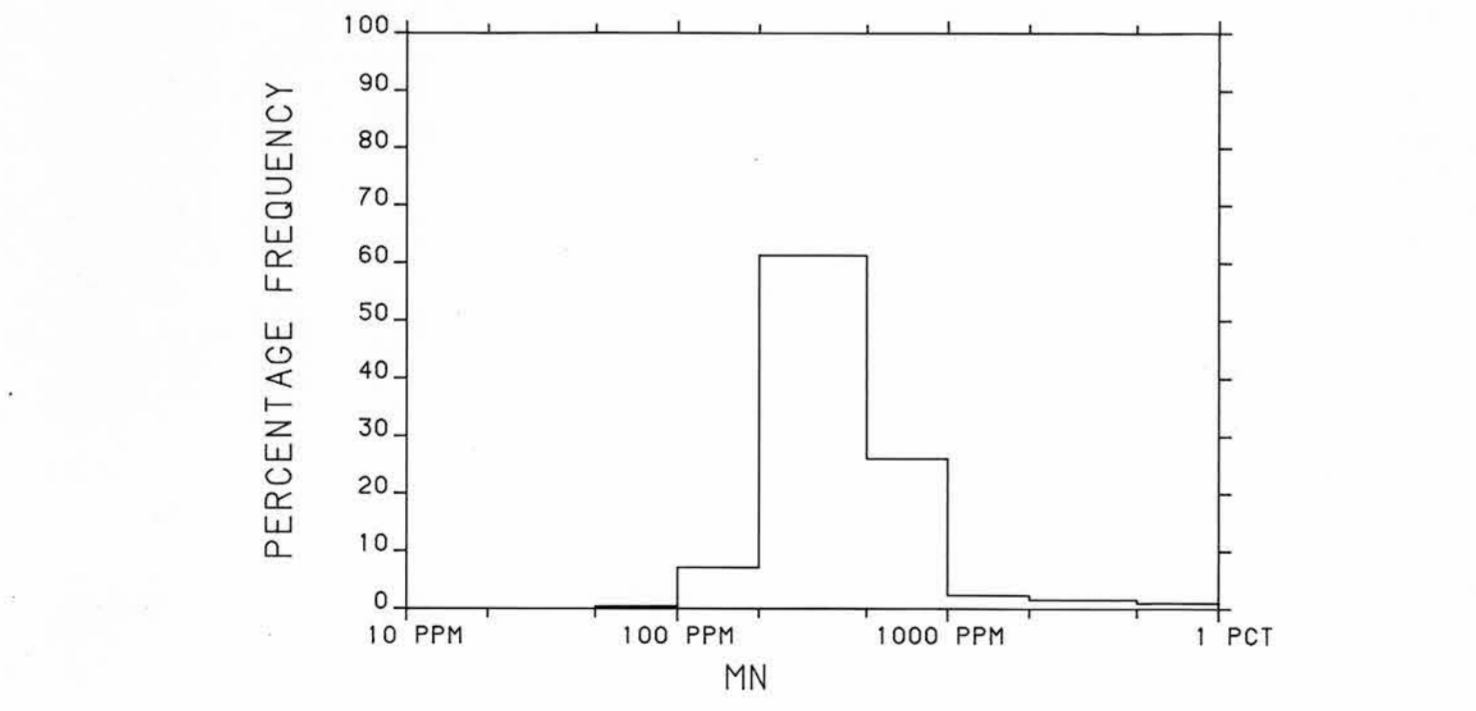
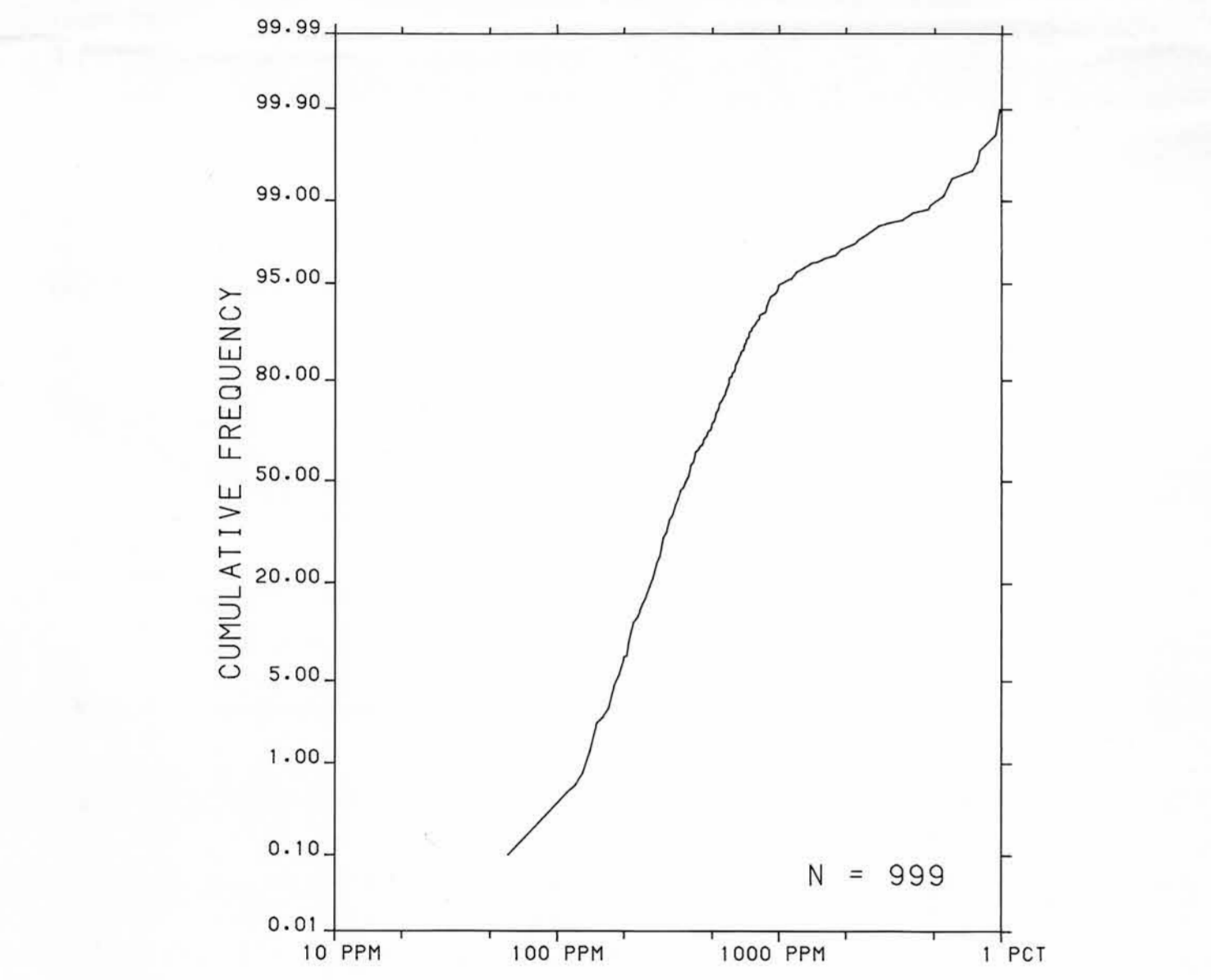
Copies of map material and listings of field observations, analytical data and methods, from which the open file was prepared, are available from:

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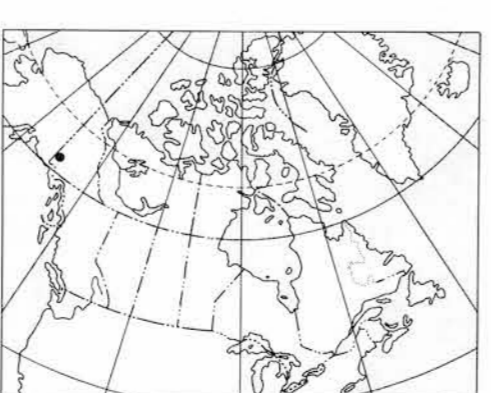
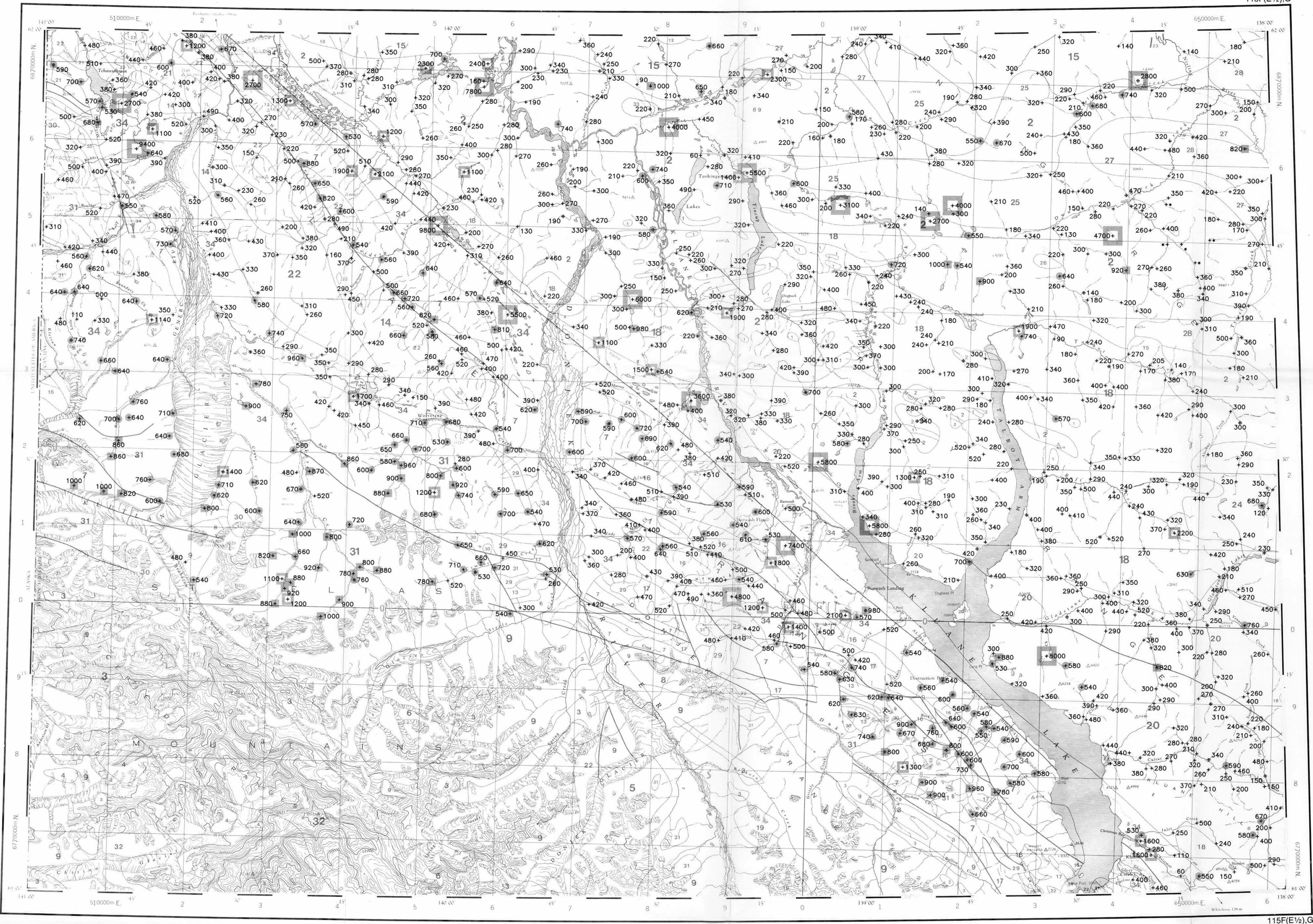
Digital data are available on IBM-PC compatible diskette from:

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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.



CONCENTRATION	FREQUENCY	N =	%
2401 to 9800	+	20	2.0%
1001 to 2400	□	30	3.0%
761 to 1000	■	49	4.9%
521 to 760	●	183	18.3%
60 to 520	+	717	71.8%



Elevation in feet above mean sea level
Mean magnetic declination 1987, 28°52' East, decreasing 13.3' annually. Readings vary from 28°52'E in the SE corner to 28°46'E in the NW corner of the map area

**MANGANESE (ppm)
STREAM SEDIMENTS
GSC OPEN FILE 1362**
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 98-1986
CANADA - YUKON
SUBSIDIARY AGREEMENT ON MINERAL RESOURCES (1985-1989)
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
SOUTH-WEST YUKON, 1986

Base map at the same scale published by the Surveys and Mapping Branch in 1961

Scale 1:250 000 - Échelle 1/250 000
Universal Transverse Mercator Projection
Projection transverse universelle de Mercator
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LEGEND

QUATERNARY

PLEISTOCENE AND RECENT

- 34 QS 64* Glacial and surficial deposits

TERTIARY

- 33 TM 57 Quartz monzonite, granodiorite
- 32 TD 57 Quartz diorite, granodiorite

MIOCENE AND PLEIOCENE

- 31 MPV 62 WANGELL: Basalt, andesite pyroclastics, sediments

LATE TERTIARY

- 30 LTF 62 Felsite, granite porphyry

OLIGOCENE AND MIOCENE

- 29 OMA 61 AMPHITHEATRE: Sandstone, conglomerate, shale, coal

LOWER (?) TERTIARY

- 28 TFP 58 Feldspar porphyry dykes, flows
- 27 TFD 58 Andesite, porphyritic basalt flows, dykes

EARLY TERTIARY

- 26 ETG 57 Granodiorite, granite
- 25 ETGA 57 Alaskite, granite, quartz monzonite
- 24 ETM 57 Granite, quartz monzonite
- 23 FPP 57 Feldspar porphyry dykes

CRETACEOUS

- 22 KGM 52 Granodiorite, quartz diorite, diorite, agmatite complex

JURASSIC AND CRETACEOUS

DEZADEASH GROUP

- 21 JKD 51 Argillite, greywacke, conglomerate, volcanics
- 20 JKK 51 KLUANE: Sericitic, biotitic schist, gneiss, amphibolite
- 19 JKG 51 Granodiorite, quartz diorite, quartz monzonite, diorite

TRIASSIC

- 18 TDG 42 RUBY RANGE: Granodiorite

UPPER TRIASSIC

- 17 UTS 45 CALIFORNE, MCCARTHY: Limestone, dolomite, shale
- 16 UTN 45 NIKOLAI: Greenstone, basalt, andesite, limestone

MESOZOIC UNDIVIDED

- 15 MD 41 Granodiorite, quartz monzonite

PERMIAN AND TRIASSIC

- 14 PTV 40 Greenstone, diorite
- 13 PTB 40 Pyroxenite, serpentinite

PALEOZOIC AND MESOZOIC UNDIVIDED

- 12 PMW 40 Basic to intermediate volcanic rocks

PALEOZOIC UNDIVIDED

- 11 PN 09 NASINA: Graphitic limestone, schist
- 10 PTP 09 Chert, argillite, quartzite
- 9 PS 09 Greywacke, argillite, limestone; local basalt, andesite, volcanoclastic sediments

EARLY PALEOZOIC

- 8 EPUB 09 Gabro complex

PERMIAN

- 7 PS 36 Andesite, basalt, ultramafics, pyroclastics, phyllite, chert, limestone, conglomerate

PENNSYLVANIAN AND PERMIAN

- 6 PPM 35 Quartz monzonite
- 5 PPD 35 Granodiorite, diorite, agmatite complex
- 4 PPD 35 Quartz diorite, diorite, granodiorite

DEVONIAN

- 3 DC 25 Limestone, marble

HARRYLIAN AND CAMBRIAN

- 2 HCSM 08 Schist, gneiss, quartzite

HARRYLIAN

- 1 HC 07 Crystalline limestone

*A anomeric code assigned to rock types and recorded as part of field observations.

Geological boundary
Fault
No analytical result
Field duplicate sample sites

Geological base and legend are derived from:
Gardner, H., Templeman-Kluit, D.J., Blusson, S.L. and Campbell, R.B. (1980) Map 139A, Macmillan River, Yukon - District of Mackenzie - Alaska, NTS Sheet 105, 115, Geological Survey of Canada, Energy, Mines and Resources Canada, 1:1,000,000 Scale.

