

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, glacioluvial 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 Klunne Lake - Yukon Territory, Geological Survey of Canada Map 1177A, (1:253 440 scale), to accompany GSC Memoir 340.
- Prest, V.K., Grant, D., and Rampton, V.N. (1967) 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, Genere 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.

Geological Survey of Canada
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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

Au 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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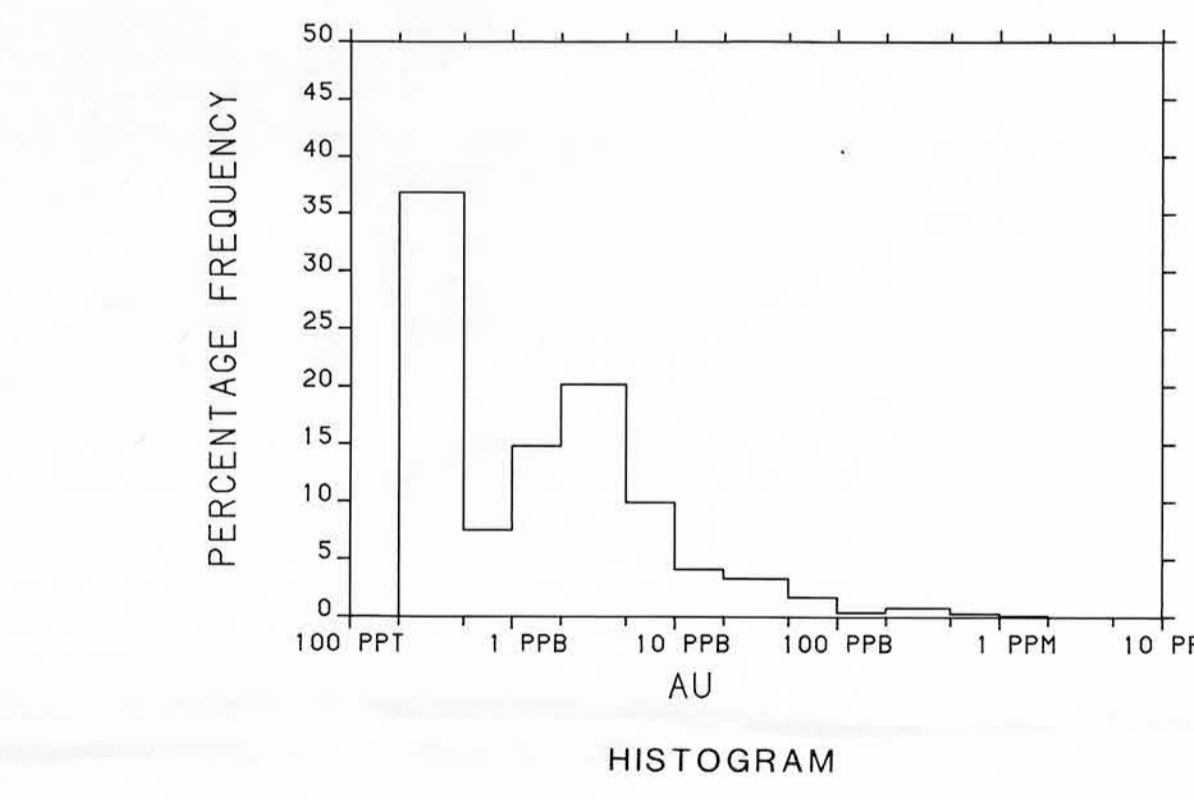
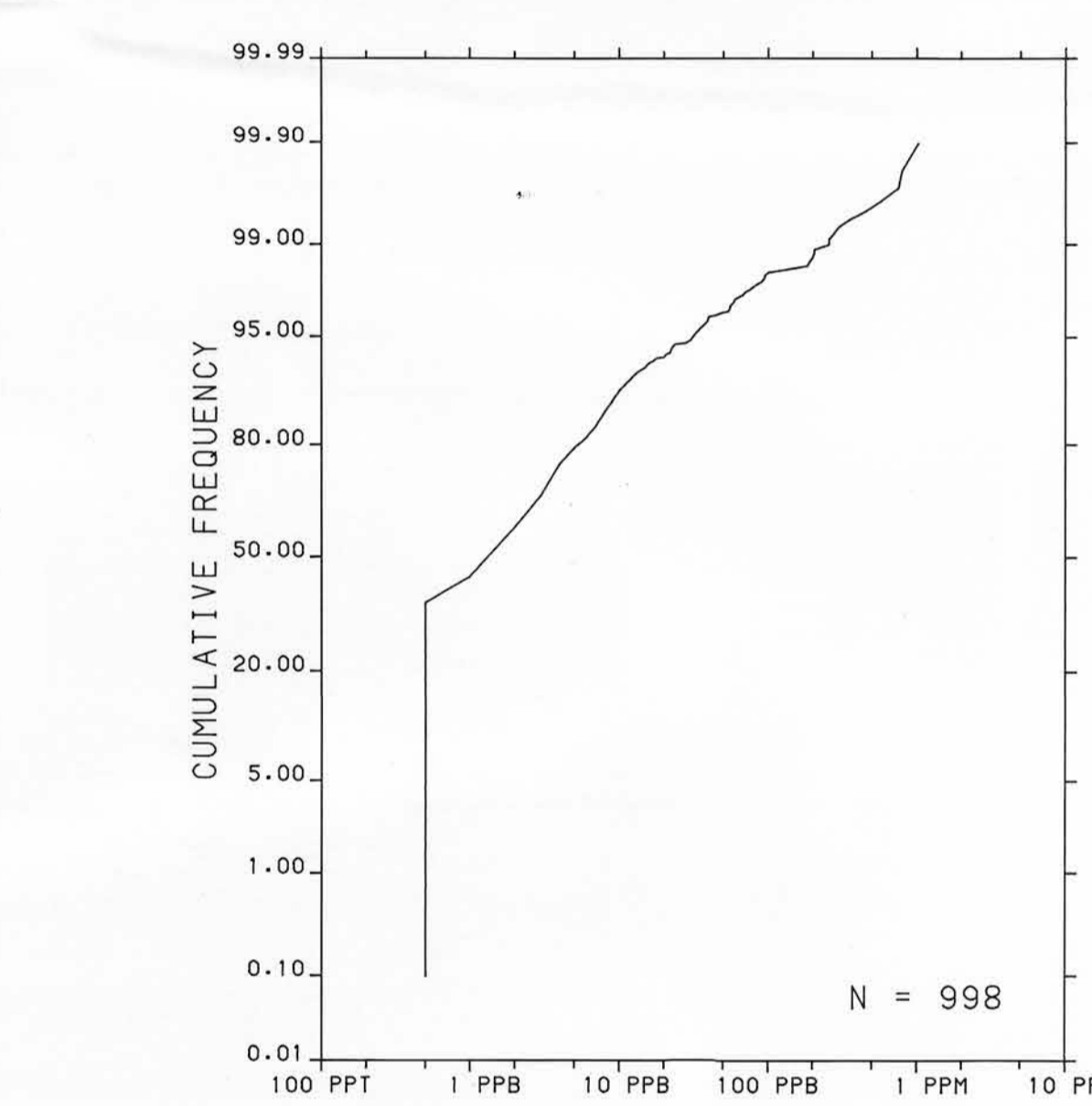
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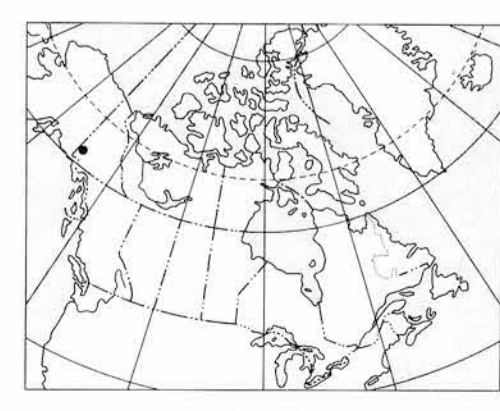
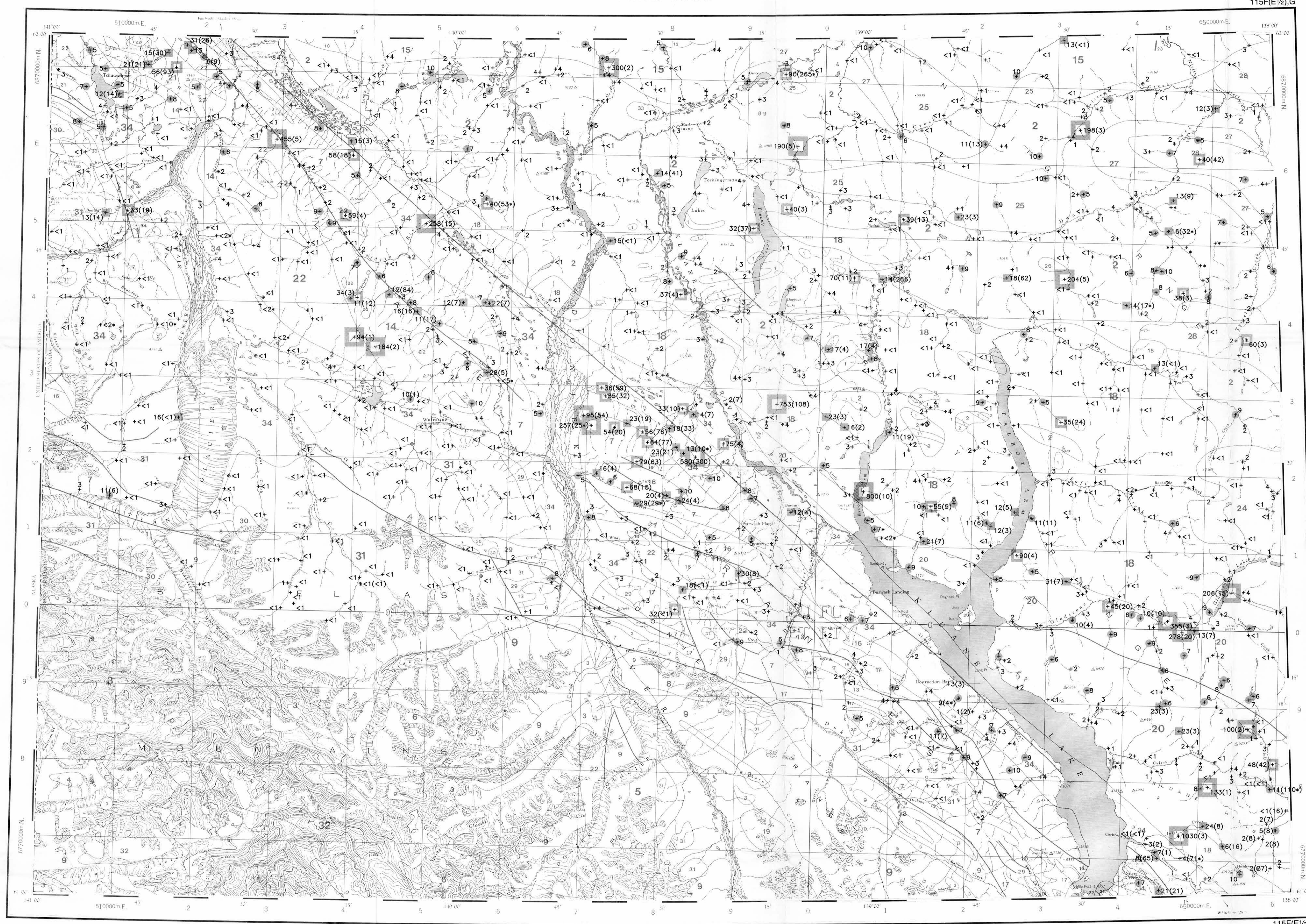


Contribution to the Canada/Yukon Subsidiary Agreement on Mineral Resources 1985-1989 under the Canada/Yukon Economic Development Agreement

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 =	%
91 to 1030	+	19	1.9%
32 to 90	+	30	3.0%
12 to 31	+	49	4.9%
5 to 11	+	142	14.2%
<1 to 4	+	758	76.0%



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

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GOLD (ppb)
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

Scale 1:250 000 - Echelle 1/250 000

Universal Transverse Mercator Projection
Projection transversale de Mercator

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

LEGEND

QUATERNARY

PLEISTOCENE AND RECENT

- 34 Q5 64* Glacial and surficial deposits

TERTIARY

- 33 TQM 57 Quartz monzonite, granodiorite
- 32 TGD 57 Quartz diorite, granodiorite

MIOCENE AND PLEIOCENE

- 31 MPV 62 MARGELL: 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 TFF 58 Feldspar porphyry dykes, flows
- 27 TVO 58 Andesite, porphyritic basalt flows, dykes

EARLY TERTIARY

- 26 ETE 57 Granodiorite, granite
- 25 ETA 57 Alaskite, granite, quartz monzonite
- 24 ETOM 57 Granite, quartz monzonite
- 23/ FPPP 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 JKL 51 KLUWNE: Serpentine, biotitic schist, gneiss, amphibolite
- 19 JKO 51 Granodiorite, quartz diorite, quartz monzonite, diorite

TRIASSIC

- 18 TGD 42 RUBY RANGE: Granodiorite

UPPER TRIASSIC

- 17 UTS 45 CHITISONE, McCARTHY: Limestone, dolomite, shale
- 16 UTM 45 MIKOLAI: Greenstone, basalt, andesite, limestone

MESOZOIC UNDIVIDED

- 15 MGD 41 Granodiorite, quartz monzonite

PERMIAN AND TRIASSIC

- 14 PTY 40 Greenstone, diorite
- 13 PTUB 40 Pyroxenite, serpentinite

PALEOZOIC AND MESOZOIC UNDIVIDED

- 12 PMW 40 Basic to intermediate volcanic rocks

PALEOZOIC UNDIVIDED

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

EARLY PALEOZOIC

- 8 EPUB 09 Gaboro complex

PERMIAN

SKOLAI GROUP

- 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

HADRYNIAN AND CAMBRIAN

- 2 HCSM 08 Schist, gneiss, quartzite

HADRYNIAN

- 1 HC 07 Crystalline limestone

*A mesozoic 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: Gabrielse, H., Templeman-Kluit, D.J., Busson, S.L. and Campbell, R.B. (1980) Map 1388A, Macklin River, Yukon - District of Mackenzie - Alaska, NTS Sheet 105, 115, Geological Survey of Canada, Energy, Mines and Resources Canada, 1:110,000 Scale.

Au value (ppb) +17
() denotes an analysis performed on a sample weighing <10 g.
() identifies Au values corresponding to repeat analyses.
<n denotes a result less than detection level (10 ppb).
consult text for actual sample weight when Au values denoted by * or < detection level
Examples:
21 Au value of 21 ppb determined on sample weight <10 g.
+38(2*) Au value of 38 ppb on first analysis. Au value of 27 ppb on repeat analysis for sample weighing <10 g.
+4 Au value less than detection limit of 4 ppb.

Please refer to Open File text for discussion of gold presentation format and geochemical interpretation.

GOLD (ppb)
STREAM SEDIMENTS
GSC OPEN FILE 1362
SOUTH-WEST YUKON, 1986