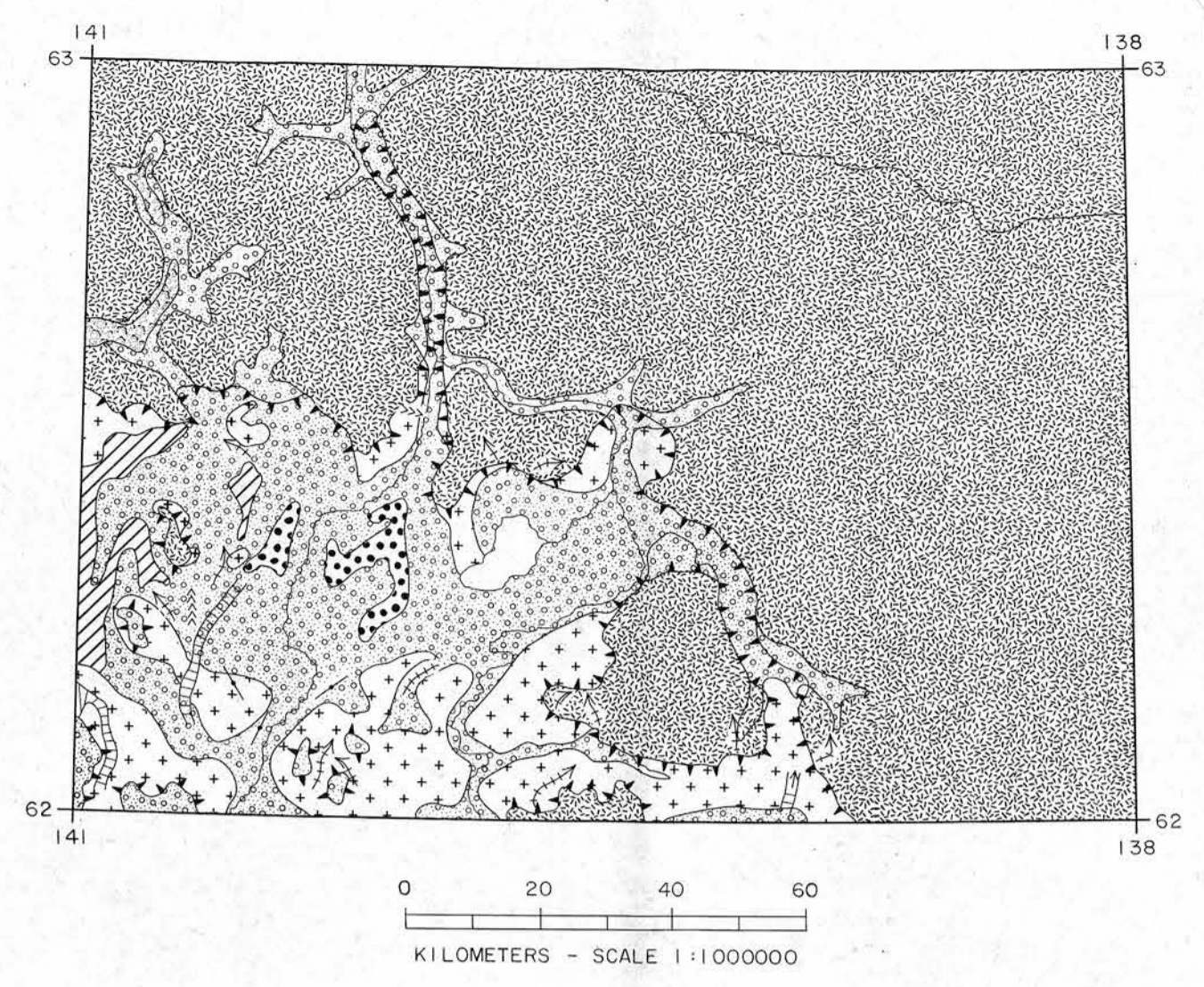


The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function (1/d²) to filter out minor irregularities and emphasize broad-scale regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically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



SURFICIAL GEOLOGY

- Thermokarst depression developed on alluvial floodplain
- Pits and kettles developed on gravelly glaciofluvial plain
- Organic deposits mantling lacustrine floodplain, glaciofluvial plain, or less commonly, moraine deposits
- Undivided surficial deposits; includes alluvium, glacial till, glaciofluvial and glaciolacustrine deposits, ice contact deposits, colluvium, volcanic ash, loess, and scattered bedrock exposures.
- Colluvium; poorly sorted blanket of rubble commonly <3 m thick overlying bedrock, ubiquitous in unglaciated terrain.
- Bedrock exposures; includes discontinuous veneer of undivided glacial drift, local alpine glaciation features.

Symbols

- Surficial deposit boundary
- Limit of Reid ice advance, maximum extent of glaciation
- Major meltwater channels, outwash deposits, indicating direction of flow
- Drumlinoid form; rock drumlin, crag and tail, fluted bedrock or till, direction of movement not inferred
- Esker, direction of flow indicated

Sources of information:
Hughes, D.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.
Prest, V.K., Grant, D.R., 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, Koidern Mountain, Yukon Territory, Geological Survey of Canada, Map 5-1978, 1:100,000 scale.
(1977) Surficial Geology and Geomorphology, Mirror Creek - Yukon Territory, Geological Survey of Canada, Map 4-1978, 1:100,000 scale.
Templeman-Kluit, D.J. (1973) Geology, Snag - Yukon Territory, Geological Survey of Canada, Map 16-1973 (1:250,000 scale) to accompany GSC Paper 73-41.

Geological Survey of Canada
Mineral Resources Division
Exploration Geochemistry Subdivision

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

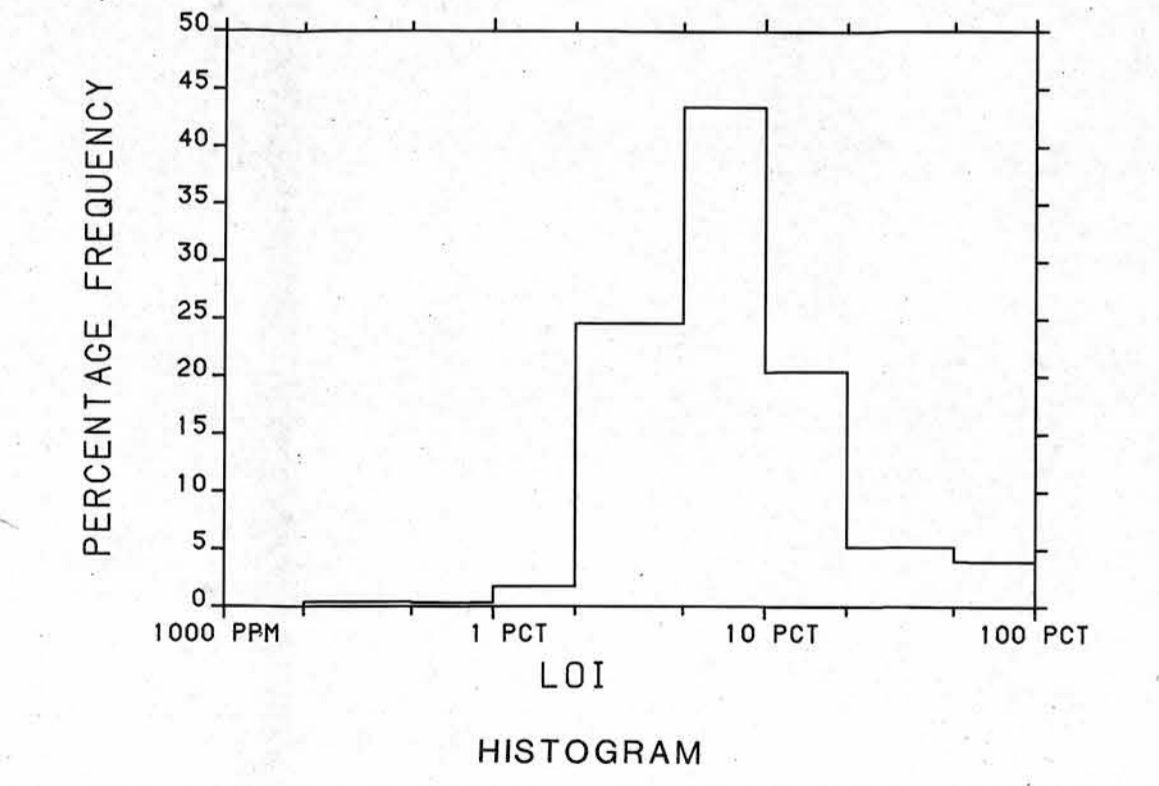
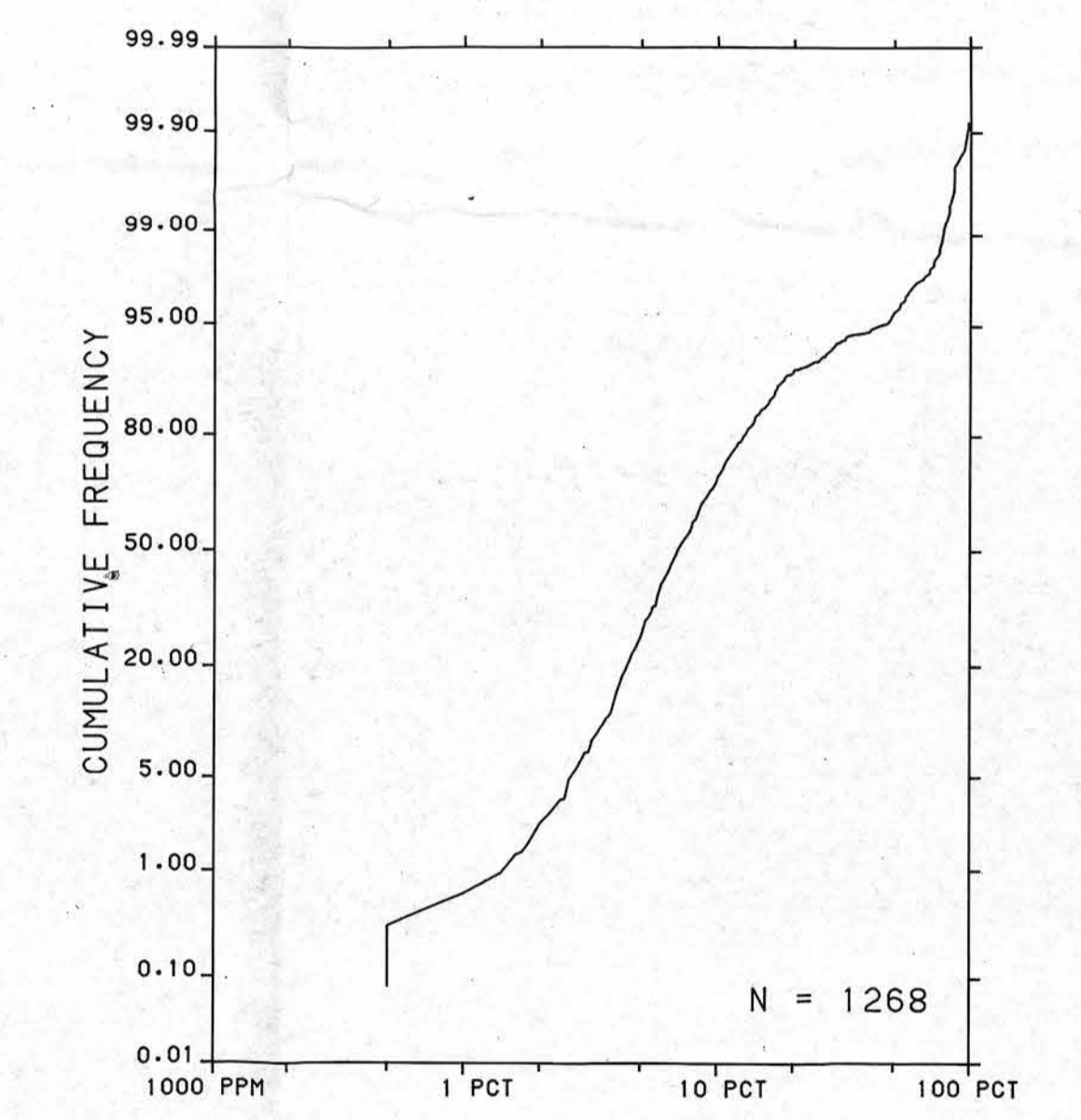
Au analyses by Chemex Labs Limited, Vancouver
Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

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

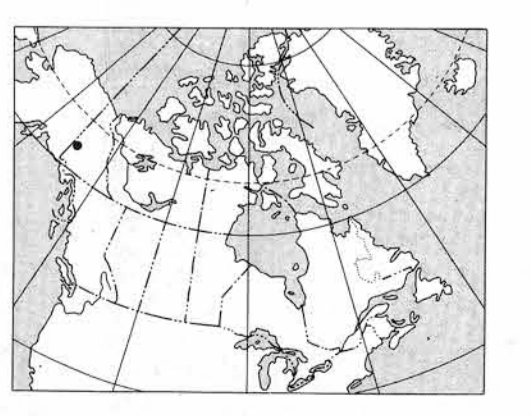
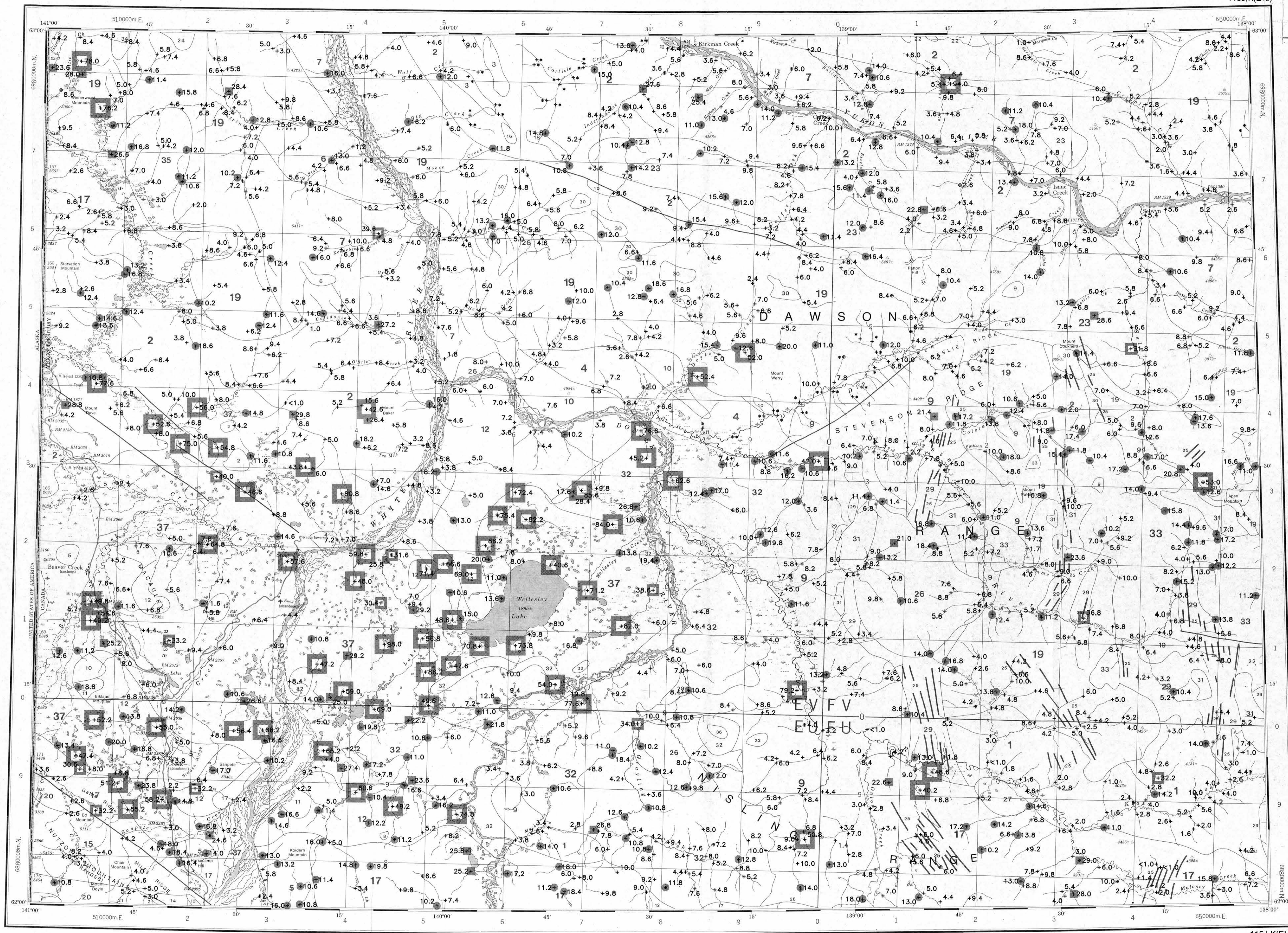
K.G. Campbell Corporation
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Digital data are available on IBM-PC compatible diskette from:

Geological Survey of Canada
Publications Distribution
601 Booth St.
Ottawa, Ontario K1A 0E8
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CONCENTRATION	FREQUENCY
40.1 to 98.0	N = 67 (5.3%)
30.1 to 40.0	N = 13 (1.0%)
20.1 to 30.0	N = 36 (2.8%)
10.1 to 20.0	N = 258 (20.3%)
<1.0 to 10.0	N = 894 (70.5%)



Elevation in feet above mean sea level
Mean magnetic declination 1987, 29°37' East, decreasing 13.4' annually. Readings vary from 29°37'E in the SE corner to 29°32'E in the NW corner of the map area

**LOSS ON IGNITION (%)
STREAM SEDIMENTS
GSC OPEN FILE 1363**
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 99-1986
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

Base map at the same scale published by the Surveys and Mapping Branch in 1971

LEGEND

QUATERNARY

PLEISTOCENE AND RECENT

- 37 Q5 64* Glacial and surficial deposits

TERTIARY AND QUATERNARY

PLIOCENE AND PLEISTOCENE

- 36 P33 63 Olivine basalt

TERTIARY

LATE TERTIARY

- 35 L16 62 Biotite porphyry, granite, granodiorite

OLIGOCENE AND MIOCENE

- 34 O16 61 AMPHITHEATRE: Sandstone, conglomerate, shale, coal
CARMACKS GROUP

EOCENE

- 33 O16 61 Andesite, basalt, breccia
- 32 O16 61 DONEX: Tuff, breccia

MOUNT NANKSEN GROUP

- 31 E16 59 Acid to intermediate tuff, breccia

LOWER (T) TERTIARY

- 30 TC 58 CASINO: Tuff, ignimbrite, breccia
- 29 T16 58 Feldspar porphyry dykes, flow
- 28 T16 58 Andesite, porphyritic basalt flows and dykes

EARLY TERTIARY

- 27 E16 57 Granodiorite, granite
- 26 E16 57 Alaskite, granite, quartz monzonite
- 25 F16 57 Feldspar porphyry dykes

CRETACEOUS

- 24 KY 52 Syenite, monzonite
- 23 KG 52 Granite
- 22 K16 52 Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite
- 21 K16 52 Granodiorite, quartz diorite, diorite, gneiss complex

JURASSIC AND CRETACEOUS

DEZHAUASH GROUP

- 20 J16 51 Argillite, greywacke, conglomerate, volcanics

TRIASSIC

- 19 T16 42 Foliated hornblende granodiorite, quartz

MESOZOIC UNDIVIDED

- 18 M16 41 Porphyritic quartz monzonite
- 17 M16 41 Granodiorite, quartz monzonite
- 16 M16 41 Diorite

PERMIAN AND TRIASSIC

- 15 P16 40 Greenstone, greywacke, shale, limestone
- 14 P16 40 Greenstone, diorite
- 13 P16 40 Pyroxenite, serpentinite

PALEOZOIC AND MESOZOIC UNDIVIDED

- 12 P16 40 Basic to intermediate volcanic rocks
- 11 P16 40 Hornblende gabbro
- 10 P16 40 Ultramafic rocks

PALEOZOIC UNDIVIDED

- 9 P16 09 WASHA: Graphitic quartzite, schist
- 8 P16 09 Limestone
- 7 P16 09 PELLY GNEISS: Foliated to gneissic granodiorite
- 6 P16 09 Amphibolite, schist, gneiss
- 5 P16 09 Chert, argillite, quartzite
- 4 P16 09 Greenstone, amphibolite

CARBONIFEROUS AND PERMIAN

- 3 C16 35 Quartz-muscovite schist
- 2 C16 35 Schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX

HADRYNIAN AND CAMERIAN

- 1 H16 08 Schist, gneiss, quartzite

*A mnemonic 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., Blusson, S.L., and Campbell, R.B. (1980) Map 1394, 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.