

- BRITISH COLUMBIA SURFICIAL DEPOSITS**
- PROGLACIAL DEPOSITS**
- LACUSTRINE DEPOSITS: Varved silt, clay, and sand, locally drumlined and fluted through minor ice re-advance, fringed by beach deposits. Deposits up to 120 m thick along Nechako, >200 m thick along Blackwater.
 - Meltwater or outwash channel deposits bounded by cutbanks or terraces
 - UNDIVIDED GLACIOFLUVIAL DEPOSITS: Sand, silt and clay with local accumulations up to 70 m thick along valley bottoms
- GLACIAL DEPOSITS**
- Undivided glacial till and ground moraine. Areas of low relief include abundant drumlins, rock drumlins, fluting, and esker complexes. Bedrock exposures predominate above 1700 m elevation
- Outwash channel cutbank or terrace
Small meltwater or abandoned stream channel indicating direction of flow
Fluting or glacial striation
Drumlin, direction of flow known
Eskers and esker complexes
Kettled and pitted terrain

Note: Glacial deposits and features within NTS 93H are unmapped

Sources of information:

Geological Survey of Canada

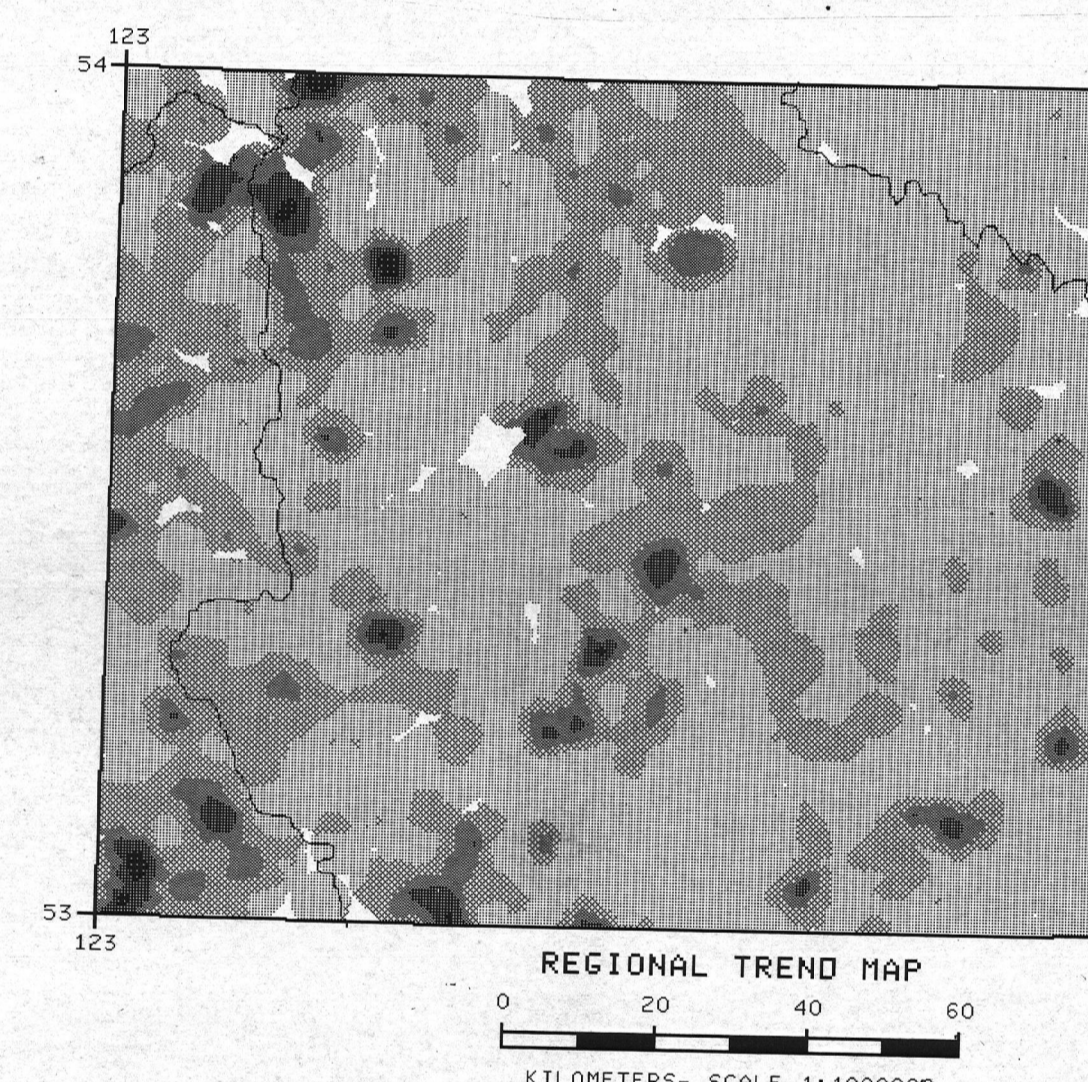
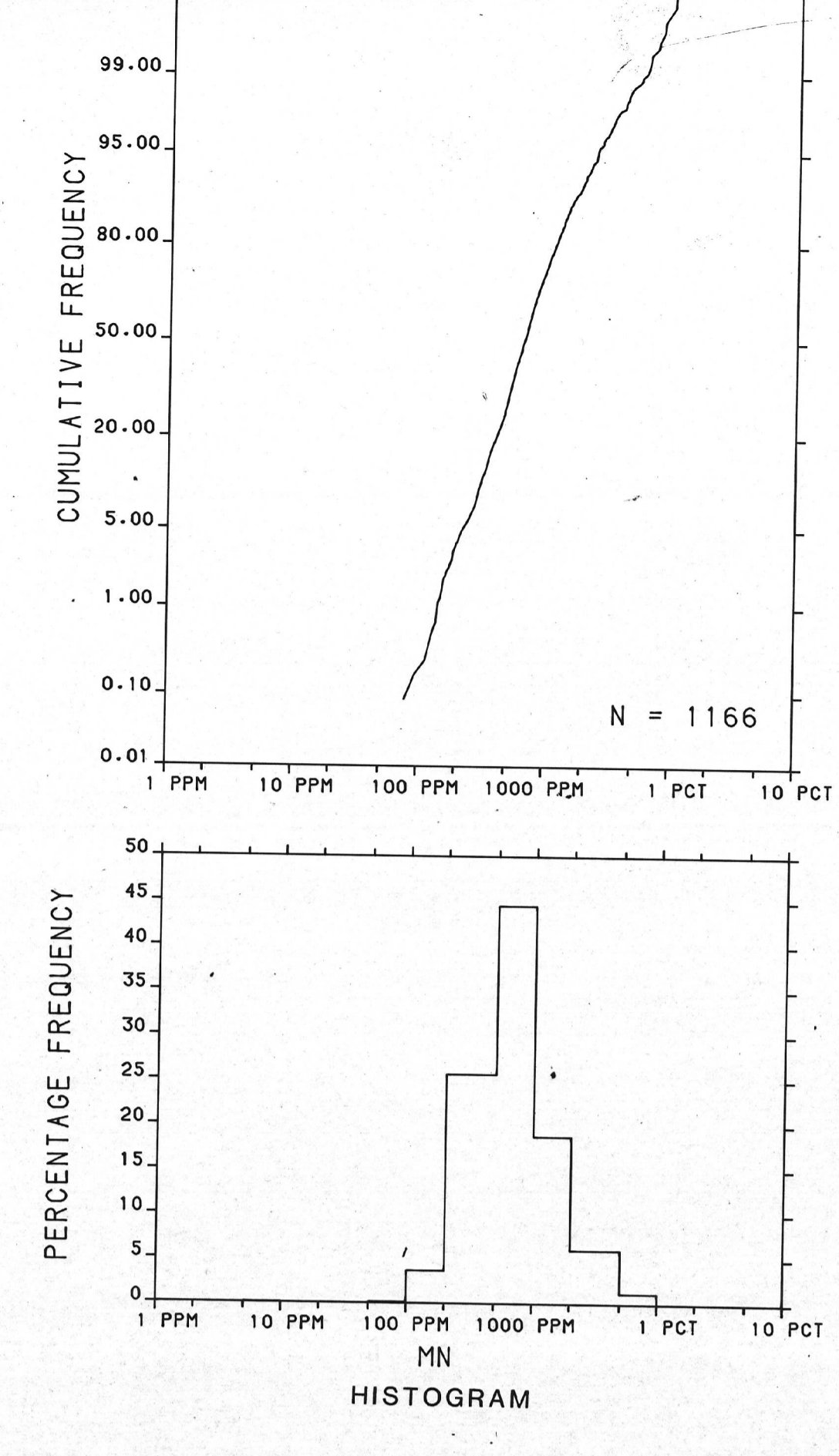
1938: Geology of Willow River Sheet
Map 335 A, West Half
Map 336 A, East Half

Tipper, H.W.

1971: Glacial Geomorphology and Pleistocene History of Central British Columbia;
Geological Survey of Canada,
Bulletin 196. 89p. (esp. Map 1288A, scale 1:250 000)

Tipper, H.W., Campbell, R.B., Taylor, G.C. and Stott, D.F.

1979: Parsnip River,
British Columbia;
Geological Survey of Canada,
Map 124a, scale 1:1 000 000



MN

PPM

XTILE

10000 MAX

4000 98

2440 95

1670 90

920 70

10 MIN

1166 SAMPLES

Provincial Open File
BC 93-12-1984 (93G E/2, 93H W/2)

LEGEND
(This legend to be used west of 122°00' only)

Note: This legend is common for Regional Geochemical 72-1984 Open File 1107

- GEOLGEOGRAPHIC**
- PLEISTOCENE AND RECENT
[17] TILL (4) TILL, GRAVEL, SAND, SILT, ALLUVIUM
- QUATERNARY**
- MODERNE AND PLEISTOCENE
[16] ISOLS 42) OLIVINE BASALT FLOWS, BRECCIA, AND TUFF
[15] ISOLS 42) SANDSTONE, SHALE, CONGLOMERATE, DIATOMITE, LIMONITE
[14] QUATERNARY AND MODERNE
[13] ISOLS 42) SANDSTONE, SHALE, CONGLOMERATE, ANDESITE, BASALT, DACITE
[12] PALEOCENE, EOCENE, OLIODNE
[11] ISOLS 42) CONGLOMERATE, SANDSTONE, SHALE, TUFF, BRECCIA
- MESOZOIC - CENOZOIC**
- UPPER CRETACEOUS AND LOWER TERTIARY
[7] ISOLS 41) OYDIA LAKE GROUP: RHYNOLITE, DACITE, TRACHYTE, SANDSTONE, SHALE, CONGLOMERATE
- CRETACEOUS**
- [11] ISOLS 36) ANDESITE, TUFF, BRECCIA, ARGILLITE, ARKOSE, CONGLOMERATE
[10] LOWER CRETACEOUS
[9] ISOLS 36) SKEENA GROUP: CONGLOMERATE, GREYWACKE, SHALE, COAL, VOLCANIC BRECCIA
- JURASSIC**
- [8] MIDDLE JURASSIC
[7] ISOLS 36) HAZELTON GROUP (PART) UNDIVIDED BASALT, ANDESITE, TUFF, BRECCIA, GREYWACKE, MUDSTONE, CONGLOMERATE
[6] LOWER AND MIDDLE JURASSIC
[5] ISOLS 36) SHALE, GREYWACKE, CONGLOMERATE
- TRIASSIC**
- [4] UPPER TRIASSIC
[3] ISOLS 36) BLACK PHYLITE, SILTSTONE, LIMESTONE, QUARTZITE
- PALEOZOIC**
- PERMIAN AND PERMIAN
[2] ISOLS 36) CASCADIAN GROUP: RIBBON CHERT, BLACK ARGILLITE, LIMESTONE, SANDSTONE, LIMESTONE, CONGLOMERATE
- MISSISSIPPIAN AND/OR YOUNGER
[1] ISOLS 36) SLIDE MOUNTAIN GROUP: BASALT, BRECCIA, TUFF, CHERT, ARGILLITE, SANDSTONE, LIMESTONE, CONGLOMERATE
- CAMBRIAN**
- LOWER CAMBRIAN
[1] ISOLS 36) MURAL FORMATION: LIMESTONE (INCLUDES MAINTO FORMATION SILTSTONE, SANDSTONE)
- PROTEROZOIC**
- MAJORITIC
[1] ISOLS 36) KAZA GROUP: SANDSTONE, CONGLOMERATE, GRIT, PHYLITE, SCHIST, AMPHIBOLITE, MARBLE, SLATE
- PLUTONIC ROCKS**
- TERTIARY**
- [1] ISOLS 42) GRANODIORITE, QUARTZ DIORITE, QUARTZ MONZONITE
- LOWER CRETACEOUS**
- [1] ISOLS 36) RIVER INTRUSIONS: QUARTZ MONZONITE, SYENITE, MONZONITE, GRANODIORITE, DIORITE
- UPPER TRIASSIC**
- [1] ISOLS 36) TACONICANITE BATHOLIT AND BODIES OF SIMILAR AGE AND LITHOLOGY: GRANODIORITE, QUARTZ DIORITE, QUARTZ MONZONITE
- PERMIAN AND/OR TRIASSIC**
- [1] ISOLS 36) TREMBLEUR INTRUSIONS AND SIMILAR BODIES: PERIODITE, DUNITE, HYPODITE, SERPENTINE

- SYMBOLS**
- GEOLOGICAL BOUNDARY: MAPPED, ASSUMED
FAULT: MAPPED, ASSUMED
THRUST FAULT (TEETH ON HANGINGWALL): MAPPED, ASSUMED
ANTICLINAL AXIS
SYNCLINAL AXIS
STREAM SAMPLE SITE
- GEOLGEOGRAPHIC AND MINERAL DEPOSITS**
- Generalized geology after Geological Survey of Canada Map 69-1960, Prince George, British Columbia, 1:500 000. H. W. Tipper, 1965 and Geological Survey of Canada Map 1424A, Parsnip River, British Columbia, 1:1 000 000, compilation by H. W. Tipper, A. B. Campbell, C. C. Stott, and D. F. Stott, 1979. Used to determine geomorphic features and to group geochronological data.
- The four-letter mnemonic name indicates rock type and the two-digit number indicates age.
- For location of the following specific information for this area refer to British Columbia Ministry of Energy, Mines and Petroleum Resources: Mineral Deposits, refer to Mineral Inventory Map (MIM) 93G (SPRINT) (GEOLGEO); Assessment Reports, refer to Assessment Report Index Map (ARIM) 93G (SPRINT) (GEOLGEO); Stream Sediment Sampling Reports, refer to Index to Stream Sediment Sampling Reports (SSSR) (GEOLGEO); Water Chemical Analyses, refer to Index to Water Chemical Analyses (WCA) (GEOLGEO); Pleistocene Geology, refer to Index to Pleistocene Geology (IPG) (GEOLGEO); Mineral and Petroleum Resources, refer to Index to Mineral and Petroleum Resources (MPPR) (GEOLGEO); and Pleistocene Geology, refer to Index to Pleistocene Geology (IPG) (GEOLGEO).

Geological Survey of Canada
Resource Geophysics and Geochemistry Division
Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

CONTRACTORS

Sample collection by McElhaney Surveying and Engineering Ltd., Victoria, Ontario
Sample preparation by Golder Associates, Ottawa

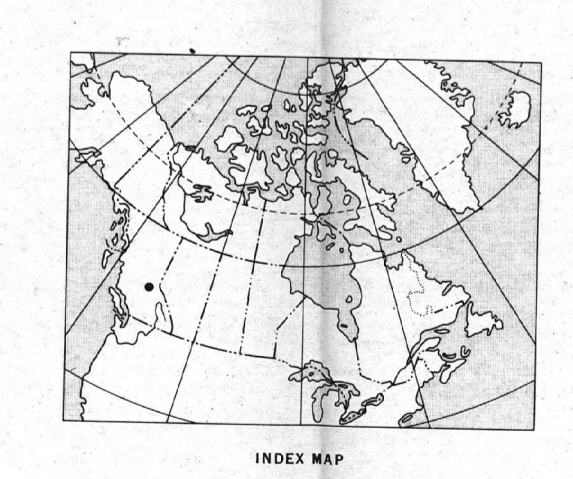
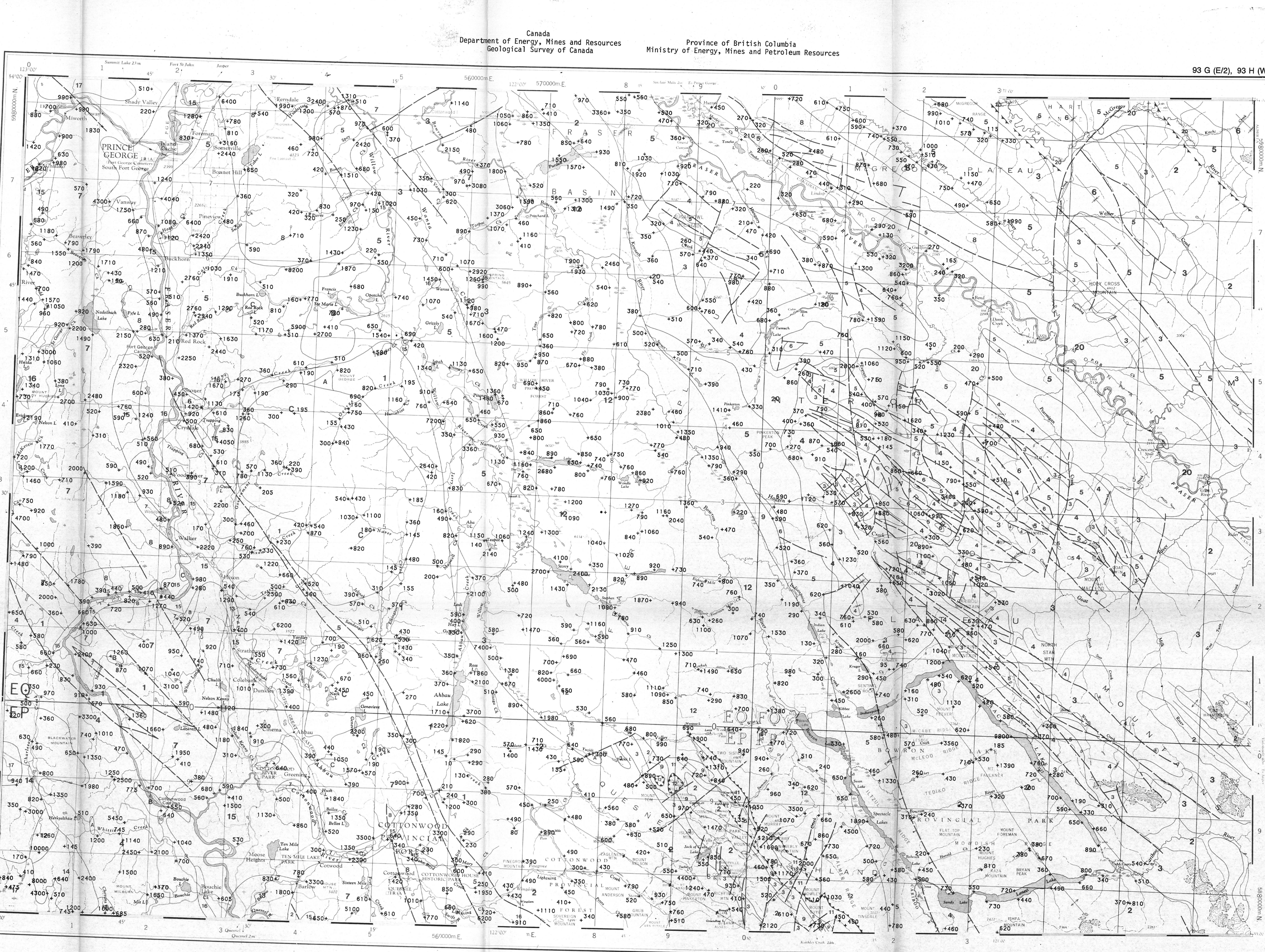
Sediment chemical analysis by Barringer Magenta Ltd., Redville, Ontario
Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

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:

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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
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Elevation in feet above mean sea level

Mean magnetic declination 1985, 27°34' West, decreasing 9.9' annually. Readings vary from 26°41' in the SW corner to 28°27' in the NE corner of the map area

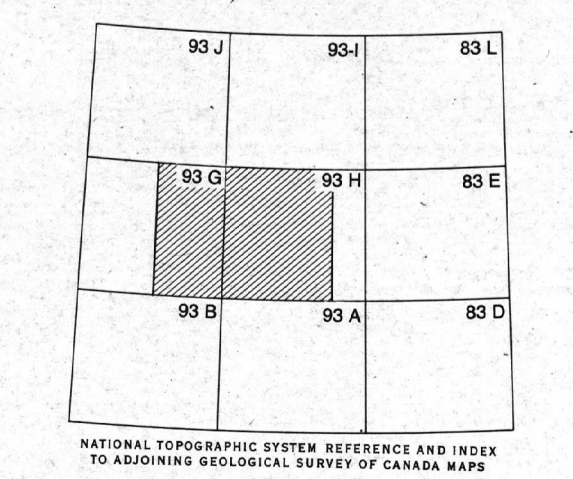
MANGANESE (ppm)
GSC OPEN FILE 1107

REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 72-1984
JOINT CANADA/BRITISH COLUMBIA PROGRAM
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
EAST-CENTRAL BRITISH COLUMBIA

Scale 1:250 000

Universal Transverse Mercator Projection
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Base map assembled by the Geological Cartography Unit from maps published at the same scale by the Surveys and Mapping Branch in 1969, 1970



This map forms one of a series of maps released by the Geological Survey of Canada, Open File 1107. The Open File consists of maps of various geochemical variables: 19 for stream sediment, 3 for stream water and 1 sample site location

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MANGANESE (ppm)
GSC OPEN FILE 1107
EAST-CENTRAL BRITISH COLUMBIA