

**BRITISH COLUMBIA SURFICIAL DEPOSITS**

**PROGLACIAL DEPOSITS**

LACUSTRINE DEPOSITS: Varved silt, clay, and sand, locally drumlinized 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 GLACIOLACUSTRINE AND 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

**FE HISTOGRAM**

PERCENTAGE FREQUENCY

1000 PPH 1 PCT 10 PCT 100 PCT

Scale 1:1 000 000

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

Sources of information:

Geological Survey of Canada

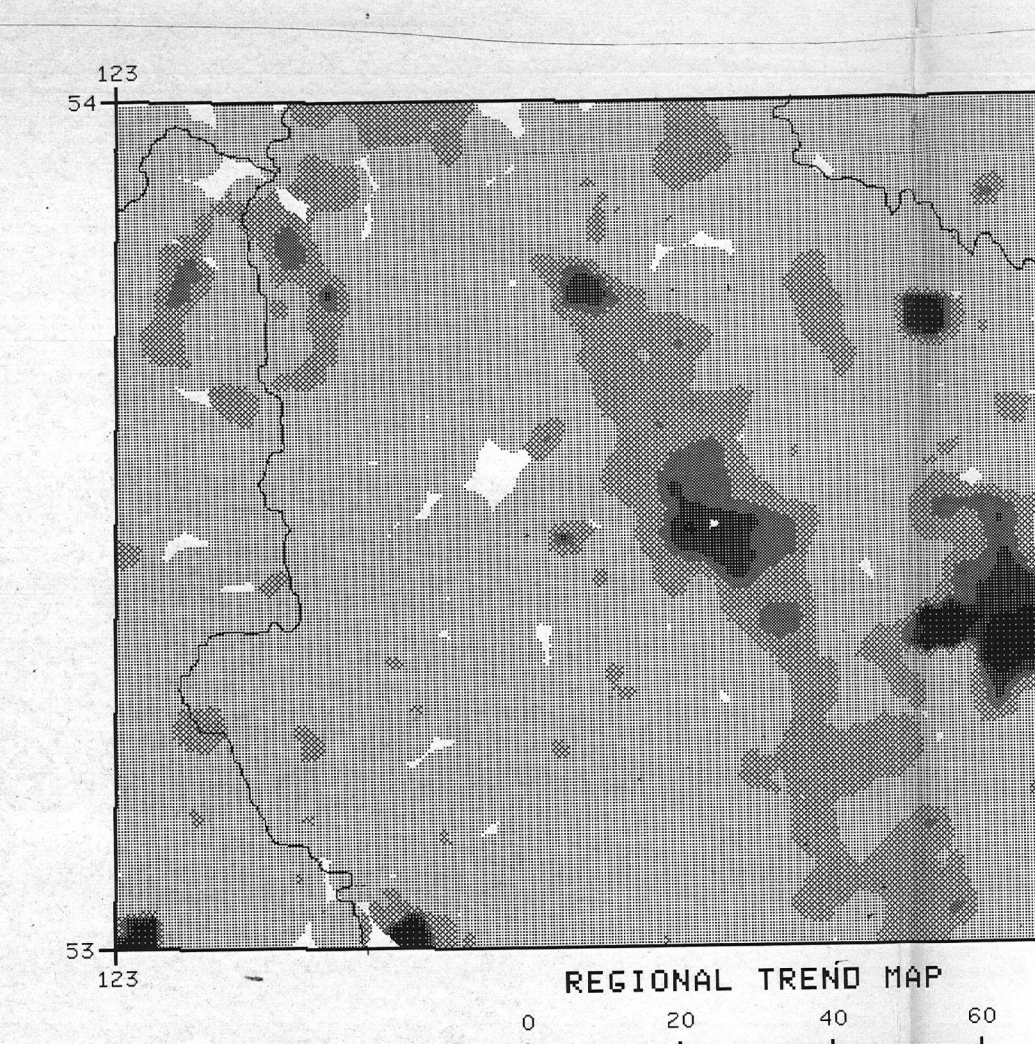
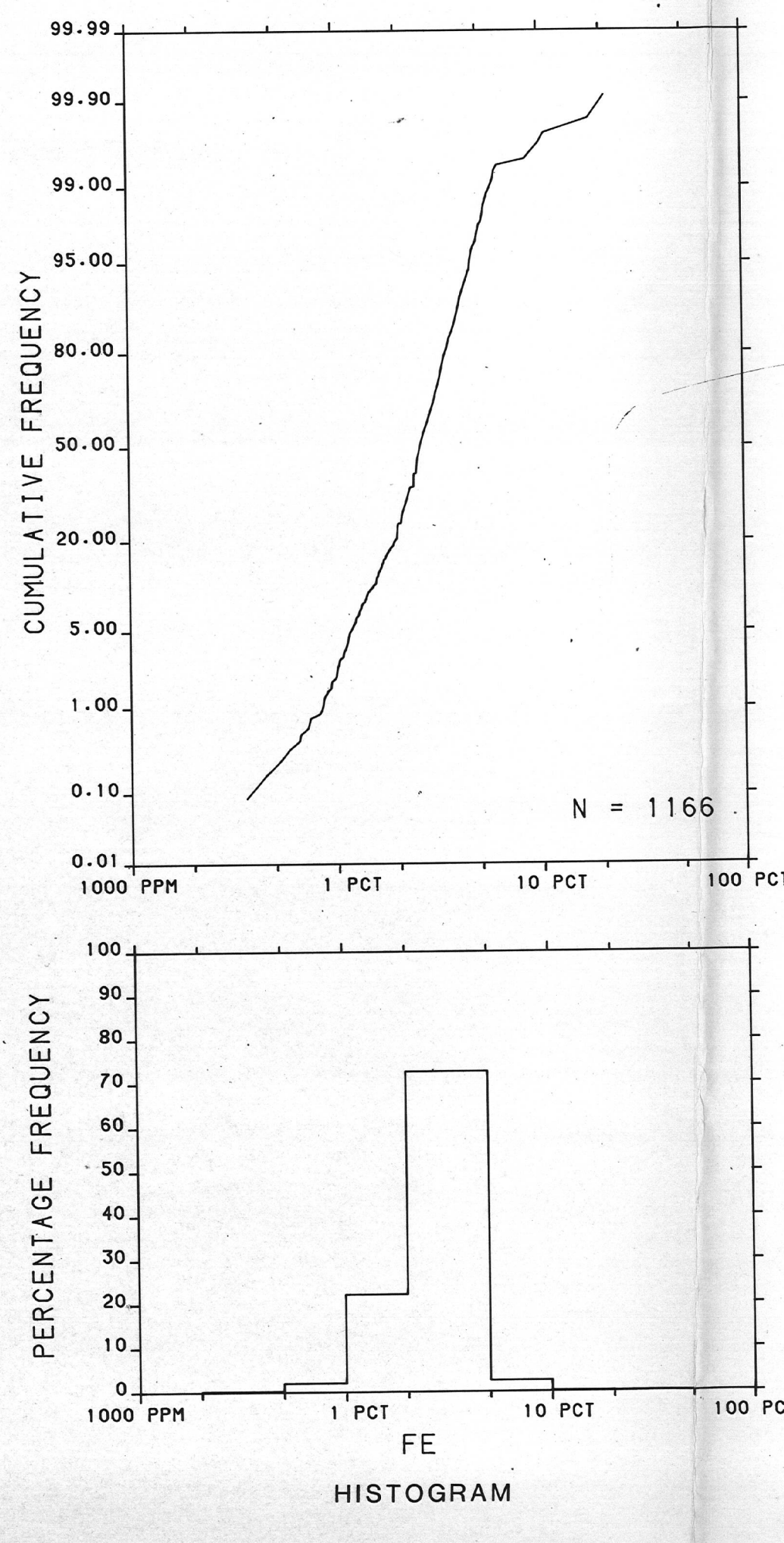
1938: Geology of Willow River Sheet  
Map 355 A, West Half  
Map 356 A, East Half

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 1424A, scale 1:1 000 000



1166 SAMPLES

Scale 1:1 000 000

Provincial Open File  
BC R05-12-1984 (936 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

- CEANOZOIC**
- QUATERNARY**
- PLEISTOCENE AND RECENT
- (17) IITL 441 TILL, GRAVEL, SAND, SILT, ALLUVIUM
- TERTIARY**
- MIOCENE AND PLEISTOCENE
- (16) IBSL 421 OLIVINE BASALT FLOWS, BRECCIA, AND TUFF
- (15) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, DIATOMITE, LIGNITE
- OLIGOCENE AND MIOCENE
- (14) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- (13) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- MESOZOIC - CEANOZOIC**
- UPPER CRETACEOUS AND LOWER TRIASSIC
- (12) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- (11) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- CRETACEOUS
- (10) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- (9) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- JURASSIC
- (8) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- (7) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- TRIASIC
- (6) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- (5) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- PALEOZOIC**
- PENNSYLVANIAN AND PERMIAN
- (4) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- (3) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- MISSISSIPPIAN AND/OR YOUNGER
- (2) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- (1) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- CAMBRIAN**
- (0) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- PROTEROZOIC**
- MADRYNIAN
- (-1) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- (-2) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- PLUTONIC ROCKS**
- TERTIARY**
- (D) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- LOWER CRETACEOUS**
- (C) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- PERMIAN AND/OR TRIASSIC**
- (B) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- JURASSIC**
- (A) IBSL 421 SANDSTONE, SHALE, CONGLOMERATE, AND TUFF
- SYMBOLS**
- Geological boundary - mapped, assumed
- Fault - mapped, assumed
- Thrust fault (TETH ON HANGINGWALL) - mapped, assumed
- Anticlinal axis
- Synclinal axis
- Stream sample site

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

**CONTRACTORS**

Sample collection by McIlhenny Surveying and Engineering Ltd., Vancouver

Sample preparation by Golder Associates, Ottawa

Sediment chemical analysis by Barringer Magenta Ltd., Rexdale, Ontario

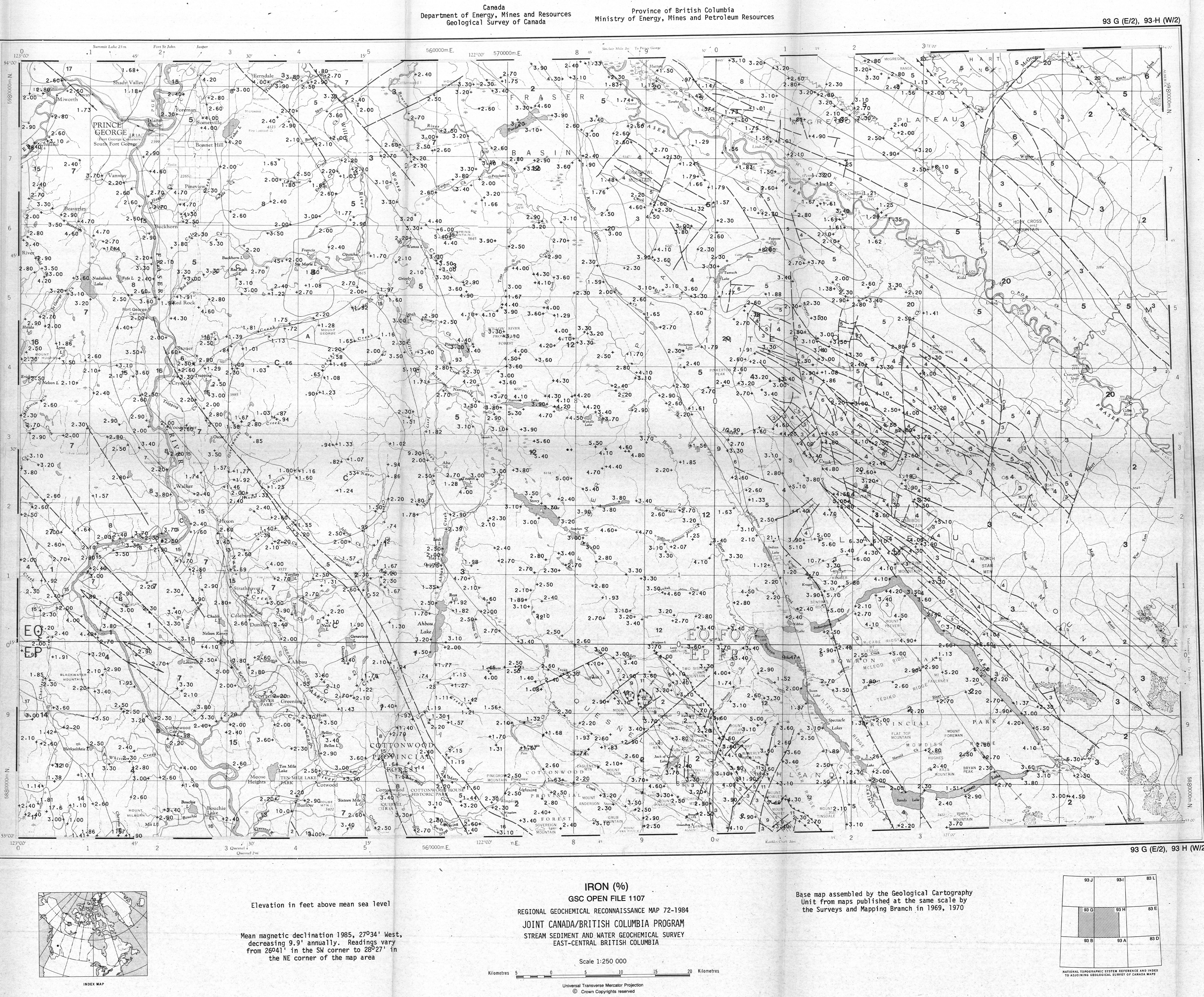
Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

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:

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IRON (%)  
GSC OPEN FILE 1107  
EAST-CENTRAL BRITISH COLUMBIA

**LEGEND**

(This legend to be used east of 122°00' only.)

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- QUATERNARY**
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- CRETACEOUS OR TERTIARY**
- UPPER CRETACEOUS OR PALEOCENE
- (19) IBSL 441 SANDSTONE, SHALE, CONGLOMERATE, BRECCIA, SANDSTONE, SHALE, COAL
- JURASSIC
- (18) IBSL 441 SANDSTONE, SHALE, CONGLOMERATE, SANDSTONE, SILTY SHALE, SILTSTONE
- (17) IBSL 441 SANDSTONE, SHALE, CONGLOMERATE, SANDSTONE, SILTY SHALE, SILTSTONE
- LOWER TO UPPER JURASSIC
- (16) IBSL 441 SANDSTONE, SHALE, CONGLOMERATE, SANDSTONE, SILTY SHALE, SILTSTONE
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- (15) IBSL 441 SANDSTONE, SHALE, CONGLOMERATE, SANDSTONE, SILTY SHALE, SILTSTONE
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- LOWER MISSISSIPPIAN AND/OR YOUNGER
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- UPPER AND MIDDLE DEVONIAN
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- CAMBRIAN**
- (0) IBSL 441 SANDSTONE, SHALE, CONGLOMERATE, SANDSTONE, SILTY SHALE, SILTSTONE
- INTRUSIVE ROCKS**
- MISSISSIPPIAN OR YOUNGER
- (A) IBSL 441 SANDSTONE, SHALE, CONGLOMERATE, SANDSTONE, SILTY SHALE, SILTSTONE
- (B) IBSL 441 SANDSTONE, SHALE, CONGLOMERATE, SANDSTONE, SILTY SHALE, SILTSTONE
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Ottawa, Ontario  
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Scale 1:250 000

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

IRON (%)  
GSC OPEN FILE 1107  
EAST-CENTRAL BRITISH COLUMBIA

Scale 1:250 000

Mean magnetic declination 1985, 2°04' 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

Scale 1:250 000

United Transverse Mercator Projection  
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