

LEGEND

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

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

- GENOZOIC**
- QUATERNARY**
- PLEISTOCENE AND RECENT
- 17 FILL 441 TILL, GRAVEL, SAND, SILT, ALLUVIUM
- TERTIARY**
- MIOCENE AND PLEIOCENE
- 16 UNDS 421 OLIVINE BASALT FLOWS, BRECCIA, AND TUFF
  - 15 UNDS 421 SANDSTONE, SHALE, CONGLOMERATE, DIATOMITE, LIGNITE
- OLIGOCENE AND MIOCENE
- 14 UNDS 421 ANDKOP GROUP: ANDESITE, BASALT, DACITE
  - 13 PALFOCENE, EOCENE, OLILOCENE
  - 12 UNDS 421 CONGLOMERATE, SANDSTONE, SHALE, TUFF, BRECCIA
- MESOZOIC - CENOZOIC**
- UPPER CRETACEOUS AND LOWER TERTIARY
- 11 UNDS 411 OOLITE LAKE GROUP: MIVOLITE, DACITE, TRACHYTE, SANDSTONE, SHALE, CONGLOMERATE
  - 10 LOWER CRETACEOUS
  - 9 UNDS 411 OOLITE LAKE GROUP: CONGLOMERATE, GREYWACKE, SHALE, COAL, VOLCANIC BRECCIA
- JURASSIC**
- MIDDLE JURASSIC
- 8 UNDS 341 HAZELTON GROUP (PART) UNDIVIDED: BASALT, ANDESITE, TUFF, BRECCIA, GREYWACKE, MUDSTONE, CONGLOMERATE
  - 7 LOWER AND MIDDLE JURASSIC
  - 6 UNDS 341 SHALE, GREYWACKE, CONGLOMERATE
- UPPER TRIASSIC AND LOWER JURASSIC
- 5 UNDS 331 TAKLA GROUP: ANDESITE, BASALT, TUFF, BRECCIA, CONGLOMERATE, GREYWACKE, SHALE, LIMESTONE
- TRIASSIC**
- UPPER TRIASSIC
- 4 UNDS 321 LESTERITE
  - 3 UNDS 321 BLACK PHYLLITE, SILTSTONE, LIMESTONE, QUARTZITE
- PALEOZOIC**
- PENNSYLVANIAN AND PERMIAN
- 2 UNDS 211 GAGNE CREEK GROUP: RIBBON CHERT, BLACK ARGILLITE, LIMESTONE, GREENSTONE
- MISSISSIPPIAN AND OLDER
- 1 UNDS 211 BLACK MOUNTAIN GROUP: BASALT, BRECCIA, TUFF, CHERT, ARGILLITE, SANDSTONE, LIMESTONE, CONGLOMERATE
- CAMBRIAN**
- LOWER CAMBRIAN
- UNDS 121 MURAL FORMATION: LIMESTONE (INCLUDES MAHO FORMATION SILTSTONE, SANDSTONE)
- PROTEROZOIC**
- HADRIANIAN
- UNDS 61 KAZA GROUP: SANDSTONE, CONGLOMERATE, GRIT, PHYLLITE, SCHIST, AMPHIBOLITE, MARBLE, ONITES
- PLUTONIC ROCKS**
- TERTIARY
- UNDS 421 GRANODIORITE, QUARTZ DIORITE, QUARTZ MONZONITE
  - LOWER CRETACEOUS
  - UNDS 341 MAYER RYTHMOIDIC QUARTZ MONZONITE, SYENITE, MONZONITE, GRANODIORITE, DIORITE
- UPPER TRIASSIC
- UNDS 321 TAYLORHILL BATHOLITH AND BODIES OF SIMILAR AGE AND LITHOLOGY: GRANODIORITE, QUARTZ DIORITE, QUARTZ MONZONITE
- PERMIAN AND OLDER
- UNDS 211 THEMELIAN INTRUSIONS AND SIMILAR BODIES: PERIOTITE, DIORITE, PYROXENITE, SERPENTINITE
- SYMBOLS**
- Geological Boundary: Mapped, Assumed
- Fault: Mapped, Assumed
- Thrust Fault (TETH ON HANGINGWALL): Mapped, Assumed
- Anticlinal Axis
- Synclinal Axis
- Stream Sample Site

Geological boundary after Geological Survey of Canada Map 46-100, Prince George, British Columbia, 1 inch to 4 miles. H. W. Tipper, 1968 and Geological Survey of Canada Map 1424A, Prince River, British Columbia, 1:100 000, compilation by H. W. Tipper, R. B. Campbell, G. C. Taylor, and D. F. Stott, 1979, used to determine dominant catchment basin rock type for geochemical data.

The four-letter alphanumeric code 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 Districts, refer to Mineral Inventory Map (M) 505 (PRINCE GEORGE); Geology, refer to Geological Reconnaissance Map (R) 1000 (PRINCE GEORGE); Regional Geology, refer to Regional Geology Map (R) 1000 (PRINCE GEORGE); Mineral and Fuel Claims Map, contact Ministry of Energy, Mines and Petroleum Resources, Title Branch, for current editions.

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

CONTRACTORS  
Sample collection by McElhannay Surveying and Engineering Ltd., Vancouver  
Sample preparation by Golder Associates, Ottawa

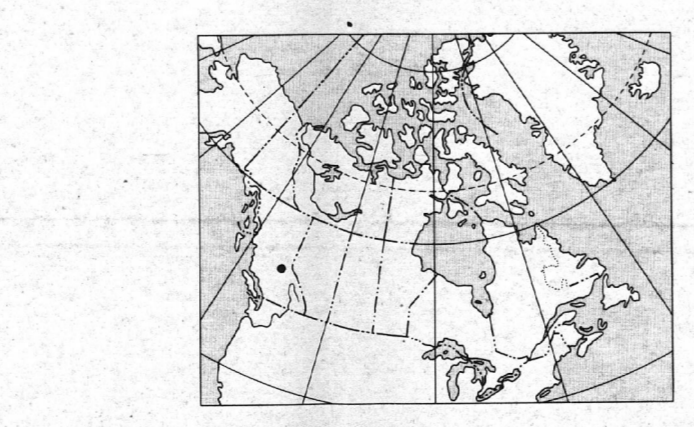
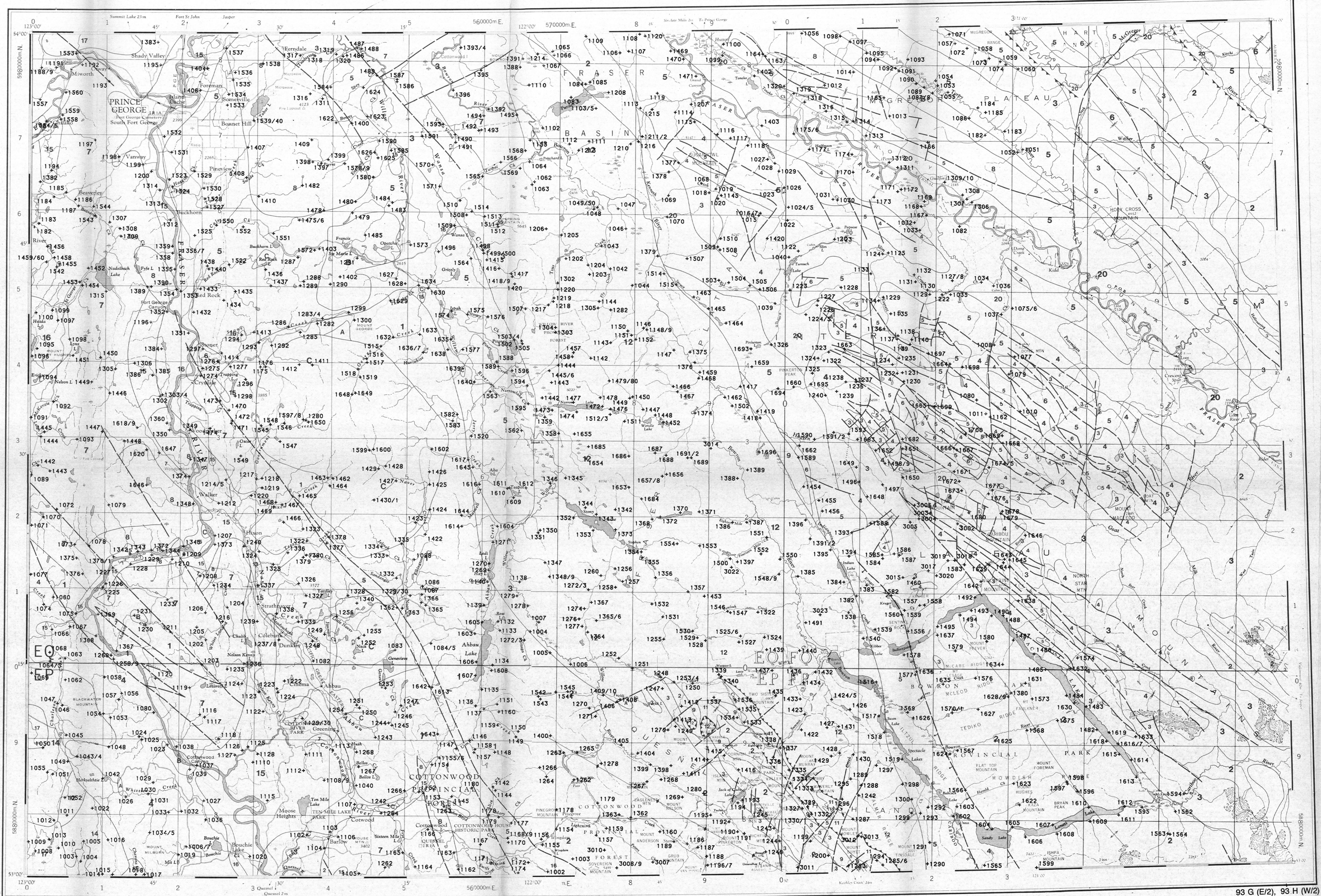
Sediment chemical analysis by Barringer Magenta Ltd., Rexdale, Ontario  
Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at user expense by application to:

K.G. Campbell Corporation  
800 Wellington St.  
Box 238  
Ottawa, Ontario  
K1R 0K7

The data are also available in digital form.  
For further information please contact:

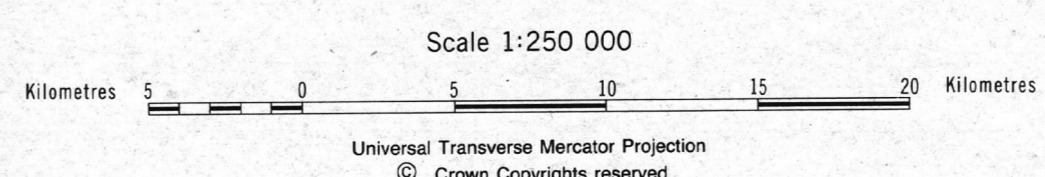
The Director  
Computer Science Centre  
Department of Energy, Mines and Resources  
Ottawa, Ontario  
K1A 0E4



SAMPLE LOCATION  
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

Elevation in feet above mean sea level  
Mean magnetic declination 1985, 27°34' West,  
decreasing 9.3' annually. Readings vary  
from 26°41' in the SW corner to 28°27' in  
the NE corner of the map area



SAMPLE LOCATION  
GSC OPEN FILE 1107  
EAST-CENTRAL BRITISH COLUMBIA

LEGEND

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

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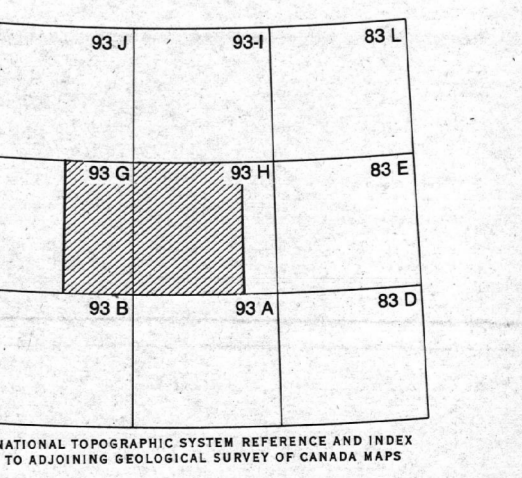
- QUATERNARY**
- PLEISTOCENE AND RECENT
- 20 UNDS 441 TILL, GRAVEL, SAND, SILT, ALLUVIUM
- CRETACEOUS OR TERTIARY**
- 19 UPPER CRETACEOUS OR PALEOCENE
  - 18 UNDS 411 BOWEN RIVER COAL BEDS: CONGLOMERATE, BRECCIA, SANDSTONE, SHALE, COAL
- UPPER JURASSIC AND LOWER CRETACEOUS**
- 18 UNDS 341 KAYAN FORMATION: SANDSTONE, SILTY SHALE, SILTSTONE
  - 17 LOWER TO UPPER JURASSIC
  - 16 UNDS 341 KAYAN GROUP: SHALE, SILTY SHALE, SILTSTONE
- TRIASSIC**
- 15 UPPER TRIASSIC
  - 14 UNDS 331 PHYLLITE, ARGILLITE, MINOR LIMESTONE, QUARTZITE
  - 13 MIDDLE AND LOWER TRIASSIC
  - 12 UNDS 331 SPIRIT RIVER GROUP: WHITEHORSE FORMATION: LIMESTONE AND DOLOMITE
- LOWER AND MIDDLE TRIASSIC**
- 11 UNDS 321 SULLY MOUNTAIN FORMATION: SILTSTONE AND SILTY LIMESTONE
- MISSISSIPPIAN AND PERMIAN**
- 10 UNDS 211 RUNDLE GROUP: CHERT, BARRY FORMATION: LIMESTONE, SANDSTONE, LIMY SHALE, DOLOMITE, CHERT
  - 9 LOWER MISSISSIPPIAN AND OLDER
  - 8 UNDS 211 GUYOT FORMATION: GREENBERRY FORMATION: PILLOW BASALT, BRECCIA, TUFF, MINOR DIORITE AND GABBRO, CHERT, ARGILLITE, LITHIC SANDSTONE
  - 7 LOWER MISSISSIPPIAN AND OLDER
  - 6 UNDS 211 GUYOT FORMATION: GREENBERRY FORMATION: CONGLOMERATE, ARGILLITE, LITHIC SANDSTONE, CRINOIDAL LIMESTONE
- DEVONIAN**
- UPPER AND MIDDLE DEVONIAN
- 5 UNDS 181 FALLSBERG GROUP: ALEXO, PERDIX, MOUNT HARK, FLAME FORMATIONS: LIMESTONE, SHALE, SANDSTONE, SILTSTONE
  - 4 LOWER DEVONIAN AND YOUNGER
  - 3 UNDS 181 BLACK STAIR FORMATION: BASALT, CHERT, CHERT BRECCIA, DOLOMITE, BRECCIA, UPPER UNIT CHERY ARGILLITE, PHYLLITE, SANDY LIMESTONE
- SILURIAN**
- LOWER SILURIAN
- 2 UNDS 141 MORA FORMATION: ALL ON IN PART: DOLOMITE, LIMESTONE, QUARTZITE, SHALE, GREENSTONE FLOYS AND SILLS
- ORDOVICIAN**
- LOWER AND MIDDLE ORDOVICIAN
- 1 UNDS 141 MORA, MANUAG, CHUSHINA FORMATIONS: DOLOMITE, LIMESTONE, SANDSTONE, SHALE, QUARTZITE
- CAMBRIAN**
- UNDS 121 LYXK, DOME CREEK, ARCTOPYS, WATERFLOE, HOTA-AKORAK, 1212-CRISTINA, ITIKANA FORMATIONS: SHALE, SILTY LIMESTONE, DOLOMITE, SANDSTONE, SILTSTONE, ARGILLITE, PHYLLITE
  - UNDS 111 MANTO, MURAL, MICAL, MANAGALING, YANIS PEAK FORMATIONS: QUARTZITE, LIMESTONE, SHALE, SILTSTONE, PHYLLITE, DOLOMITE, CONGLOMERATE
- MADRIFIAN**
- UNDS 41 SHALE, YANKEE BELLE, CUNNINGHAM FORMATIONS: SHALE, LIMESTONE, SILTSTONE, DOLOMITE, PHYLLITE
  - UNDS 31 UNDS 311 MURPHY GROUP: ISAC FORMATION: PHYLLITE, ARGILLITE, SCHIST, SANDSTONE, LIMESTONE, CONGLOMERATE
  - UNDS 21 UNDS 211 KAZA GROUP: UNDIVIDED FORMATION, MIDDLE MIFTEO GROUP: FELDSPATHIC SANDSTONE, GRANULE CONGLOMERATE, SILTSTONE, ARGILLITE, PHYLLITE, SCHIST, LIMESTONE MARBLE
  - UNDS 11 UNDS 111 LOWER MIFTEO GROUP: ARGILLITE, PHYLLITE, SANDSTONE, LIMESTONE
- INTRUSIVE ROCKS**
- MISSISSIPPIAN OR YOUNGER
- UNDS 211 SERPENTINITE
- SYMBOLS**
- Geological Boundary: Mapped, Assumed
- Fault: Mapped, Assumed
- Thrust Fault (TETH ON HANGINGWALL): Mapped, Assumed
- Anticlinal Axis
- Synclinal Axis
- Stream Sample Site

Geological boundary after Geological Survey of Canada, Map 1356A to accompany Paper 72-35, Geology of the Mowich Map Area, British Columbia, by R. B. Campbell, E. W. Mowich, and F. M. Young, Geological Survey of Canada Map 1424A, Prince River, British Columbia, 1:100 000, compilation by H. W. Tipper, R. B. Campbell, G. C. Taylor, and D. F. Stott, 1979, Figure 2, Geology of the Prince River Area, accompanying British Columbia Regional Geology Map (R) 1000 (MADRIFIAN), British Geological Assessment Reports, refer to Assessment Report, Paper Map (AR) 529 (MADRIFIAN), Geological Assessment Reports, refer to Assessment Report, Paper Map (AR) 529 (MADRIFIAN), Geological Assessment Reports, refer to Assessment Report, Paper Map (AR) 529 (MADRIFIAN), Mineral and Fuel Claims Map, contact Ministry of Energy, Mines and Petroleum Resources, Title Branch, for current editions.

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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: 18 for stream sediment, 3 for stream water and 1 sample site location



SAMPLE LOCATION  
GSC OPEN FILE 1107  
EAST-CENTRAL BRITISH COLUMBIA

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