

CONCENTRATION		FREQUENCY
8 - 59	◇	N = 55 (4.5%)
5 - 7	◆	N = 49 (4.0%)
3 - 4	◆	N = 119 (9.8%)
2 - 2	◆	N = 177 (14.5%)
1 - 1	+	N = 819 (67.2%)

**CONTRACTORS - 104F**

Sample collection by McElhanney Engineering Services Limited,  
Vancouver, B.C.

Sample preparation by Kamloops Research and Assay Lab, Kamloops,  
B.C.

Sediment chemical analyses by Bondar Clegg and Company Limited,  
North Vancouver, B.C.

Water chemical analyses by Barringer Megents, Calgary, Alta.

**CONTRACTORS - 104G**

Sample collection by McElhannay Engineering Services Limited,  
Vancouver, B.C.

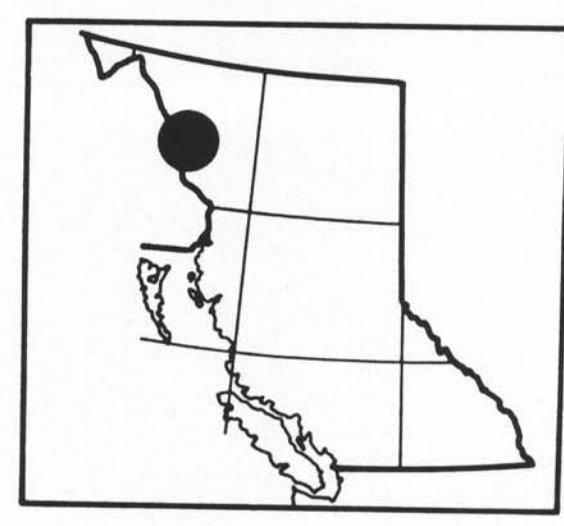
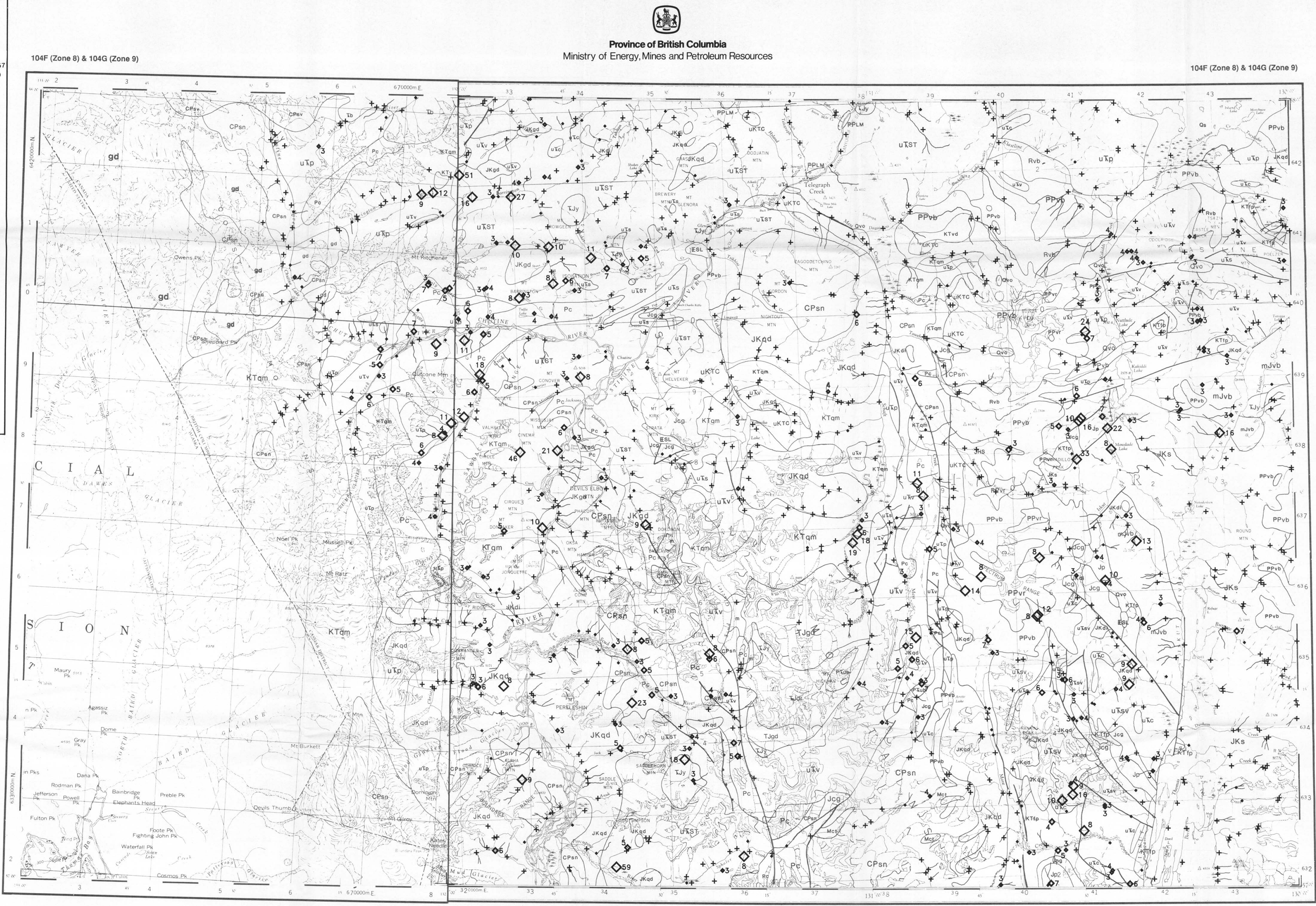
Sample preparation by Golder Associates, Ottawa, Ont.

Sediment chemical analyses by Bondar Clegg and Company Limited,  
Ottawa, Ont.

Water chemical analyses by Chemex Labs, North Vancouver, B.C..

OPEN FILE PRODUCTION

British Columbia  
Ministry of Energy, Mines and Petroleum Resources  
Geological Survey Branch  
Applied Geochemistry



This map forms one of a series of open file maps (B.C. RGS 18-20) released in 1988 by the British Columbia Geological Survey in co-operation with the Geological Survey of Canada.

Open File RGS 18 contains information on location maps at 1:100,000 and 1:250,000 scale, symbol and value maps for 20 elements in stream sediments, 20 elements in stream waters, a current land inventory map, listings of field and analytical results and a statistical summary.

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

Ministry Library - Victoria  
Library of the Geological Survey of Canada  
Map Library at the University of British Columbia, Vancouver

for purchase at:

Maps B.C.  
552 Superior Street  
Victoria, B.C.  
V8V 1Y5  
(604) 387-1441

The data are also available in digital form on MS-DOS 5 1/4" diskettes.

For further information please contact:

Applied Geochemistry Subsection  
Geological Survey Branch  
Ministry of Energy, Mines and Petroleum Resources  
Parliament Buildings  
Victoria, British Columbia, V8V 1X4  
(604) 387-3234

**OLYMBEDENUM (ppm)**  
**STREAM SEDIMENTS**

**B.C. RGS 19**

**GSC OPEN FILE 1646**

**NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 111**

**CANADA-BRITISH COLUMBIA**  
**MINERAL DEVELOPMENT AGREEMENT (1985-1989)**

**STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY**  
**NORTHWESTERN BRITISH COLUMBIA, 1987**

**SCALE 1 : 250,000**



**KILOMETRES**

Elevation in feet above mean sea level

104G : Mean magnetic declination 1954, 30°15' East in centre of map area, decreasing 4.0" annually

104F : Mean magnetic declination 1966, 29°45' East in centre west edge of map area, increasing 3.8" annually

Universal Transverse Mercator Projection  
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**Province of British Columbia**

**Ministry of Energy, Mines and Petroleum Resources**
**Energy, Mines and Resources Canada**
**Energie, Mines et Ressources Canada**

THIS PROJECT IS A CONTRIBUTION TO THE CANADA/BRITISH COLUMBIA  
 MINERAL DEVELOPMENT AGREEMENT, 1985 - 1990

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de la publication originale.

- | MOLYBDENUM (ppm)  |   |
|---|---|
| STREAM SEDIMENTS  |   |
| B. C. RGS 19<br>GSC OPEN FILE 1646  |   |
| 104F - SUMDUM / 104G - TELEGRAPH CREEK<br>NORTHWESTERN BRITISH COLUMBIA, 1987 |   |
| LEGEND  |   |
| STRATIFIED ROCKS  |   |
| QUATERNARY  |   |
| RECENT  |   |
| <b>Rvb</b> (BSLT 64*)   | Basalts, cinder, ash  |
| PLEISTOCENE AND RECENT  |   |
| <b>Qs</b> (TILL 64)   | Surficial clastic sediments and glacial deposits                          |
| <b>Qvo</b> (OLVB 64)  | Olivine basalt  |
| TERTIARY AND QUATERNARY   |   |
| PIOCENE AND PLEISTOCENE   |   |
| <b>PPML</b> (BSLT 63)   | LEVEL MOUNTAIN GROUP: basalt  |
| <b>PPbv</b> (BTRT 63)   | Basalt, rhyolite, olivine, basalt   |
| <b>PPvr</b> (RYLT 63)   | Rhyolite, trachyte, tuff  |
| TERTIARY  |   |
| EOCENE  |   |
| <b>ESL</b> (RYLT 59)  | SLOW GROUP: rhyolite, trachyte, andesite, basalt                          |
| CRETACEOUS AND TERTIARY   |   |
| <b>KTVd</b> (ANDS 56)   | Andesite  |
| CRETACEOUS  |   |
| <b>uKTC</b> (SND 55)  | TANGO CREEK: sandstone, siltstone, coal                                   |
| JURASSIC AND CRETACEOUS   |   |
| <b>JKs</b> (SLSN 51)  | Siltstone, greywacke, conglomerate, shale (upper HAZELTON GROUP: in part) |
| JURASSIC  |   |
| <b>JHs</b> (SLSN 50)  | HAZELTON GROUP: siltstone, greywacke, sandstone, tuff                     |
| <b>mJvb</b> (BSLT 49)   | Basalt, pillow lava, tuff, volcanoclastic rocks                           |
| <b>Jp</b> (SHELE 49)  | Shale   |
| <b>JT</b> (COLM 48)   | TALWAHON: conglomerate, grit, greywacke                                   |
| <b>Jcg</b> (CGKG 49)  | Conglomerate, grit, greywacke   |
| TRIASSIC  |   |
| <b>JHs</b> (PLLT 45)  | Phyllite, argillite, siltstone, greywacke, limestone                      |
| <b>uKs</b> (SLSN 45)  | Siltstone, chert, sandstone, tuff   |
| <b>uKsv</b> (ANDV 45)   | Undifferentiated andesitic volcanic and clastic sed-imentary rocks        |
| <b>uKST</b> (VLRK 45)   | STUHEIM GROUP: undifferentiated volcanic and sedimentary rocks            |
| <b>uKv</b> (ANBT 45)  | Andesite, basalt  |
| <b>uKvd</b> (ANDS 45)   | Andesite, pyroclastic rocks, greenstone                                   |
| PERMIAN   |   |
| <b>Pc</b> (LMSH 36)   | Limestone, minor calcareous shale   |
| CARBONIFEROUS AND PERMIAN   |   |
| <b>CPsn</b> (SCST 35)   | Schist, gneiss  |
| <b>CPsv</b> (GRNS 35)   | Greenstone, limestone, shale, clastic sedimentary rocks                   |
| MISSISSIPPIAN   |   |
| <b>Mct</b> (LMTF 34)  | Limestone, tuff, chert  |
| PLUTONIC ROCKS  |   |
| CRETACEOUS AND TERTIARY   |   |
| <b>KTfp</b> (FLSP 56)   | Felsite, feldspar porphyry  |
| <b>KTqm</b> (GTMZ 56)   | Quartz monzonite  |
| <b>KTy</b> (LSYN 56)  | Leucocratic syenite   |
| JURASSIC AND CRETACEOUS   |   |
| <b>JKgd</b> (GRDR 51)   | Granodiorite  |
| <b>JKqd</b> (QRZD 51)   | Quartz diorite  |
| <b>JKdi</b> (DORT 51)   | Diorite   |
| TRIASSIC AND JURASSIC   |   |
| <b>KJgd</b> (GRDR 46)   | Granodiorite  |
| <b>KJdi</b> (GRZD 46)   | Quartz diorite, diorite, amphibolite                                      |
| <b>KJy</b> (SYNT 46)  | Syenite, monzonite  |
| TRIASSIC  |   |
| <b>Kb</b> (DORT 42)   | Diorite, gabbro   |
| <b>Kdi</b> (DORT 42)  | Diorite, monzonite  |
| PERMIAN AND TRIASSIC  |   |
| <b>Pkub</b> (UMFC 40)   | Ultramafic rocks, serpentinite  |
| AGE UNKNOWN   |   |
| <b>gd</b> (GRDR 65)   | Granodiorite  |
| <b>m</b> (AMPH 65)  | Amphibolite, gneiss, migmatite  |

**SYMBOLS**

Geological boundary

Fault

Thrust fault

Glaciers

Fluid duplicate sample sites

**GEOLOGY AND MINERAL DEPOSITS**

Southey, G.B., Brown D.A. and Oshley, A.V. (compilers) 1979. Isauri River  
 Geological Survey of Canada, Map 1418A.

"A mnemonic code assigned to rock types and recorded as part of field descriptions."

For locations 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, 10 104G – SUMDUM and 10 104G – TELEGRAPH; Geologic (assessment) reports refer to: Assessment Report Index Map, AR 104F – SUMDUM and AR 104G – TELEGRAPH; Recent, geological mapping refer to: Index of Bedrock Mapping, 1983, for mineral and placer claim areas contact the Ministry of Energy, Mines and Petroleum Resources, Mineral Titles Branch, Victoria, for current details and status.

**MOLYBDENUM (ppm)**  
**STREAM SEDIMENTS**  
B.C. RGS 19  
GSC OPEN FILE 1646  
104F - SUNDUM / 104G - TELEGRAPH CREEK  
NORTHWESTERN BRITISH COLUMBIA, 1987  
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