

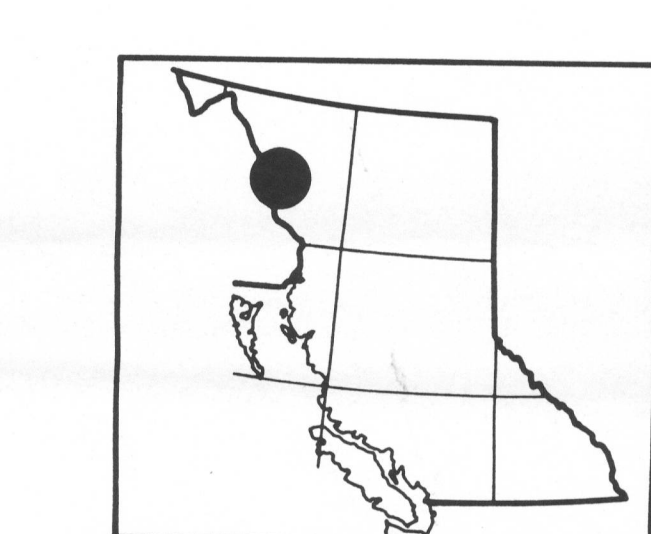
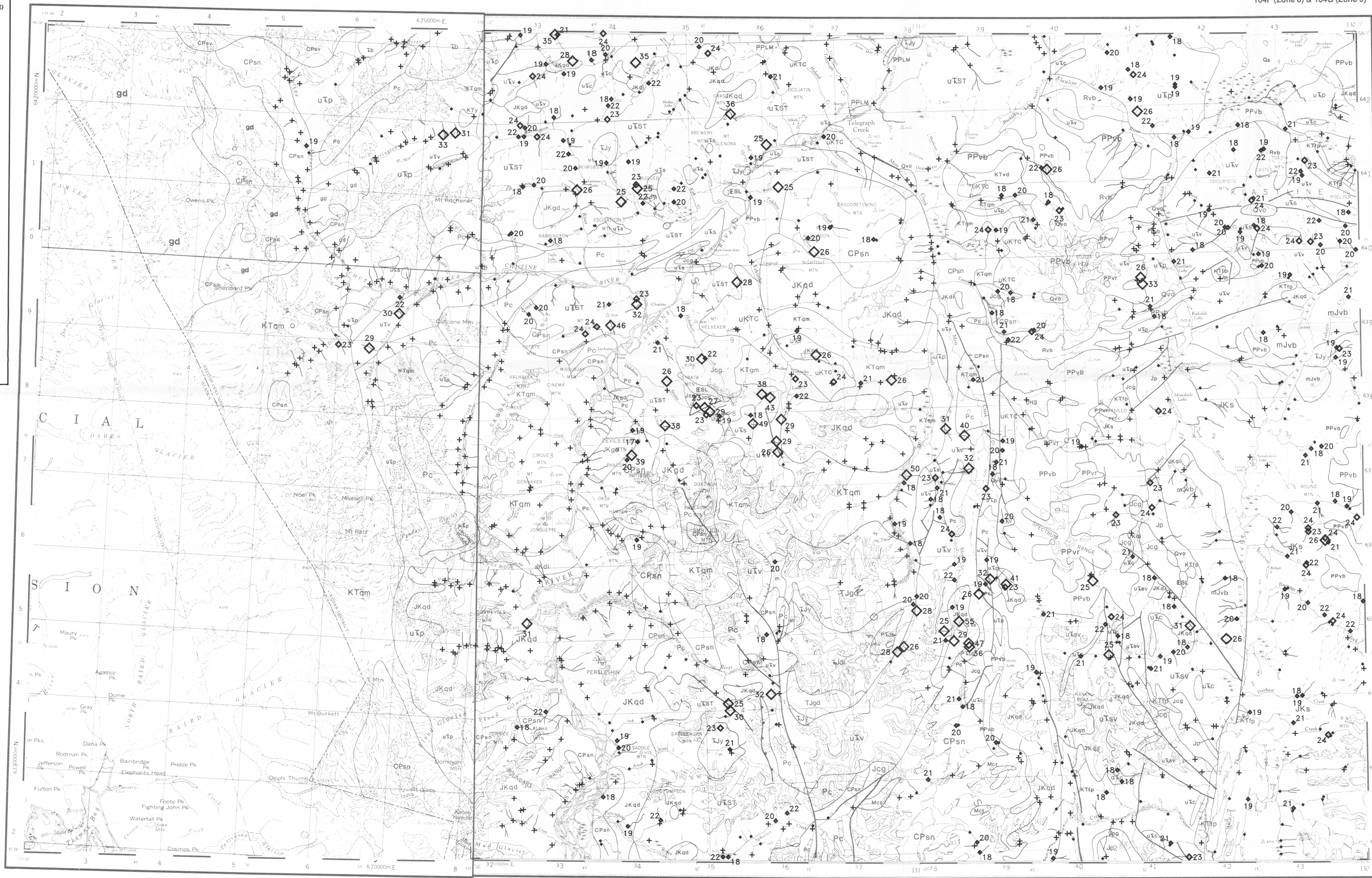
CONCENTRATION	FREQUENCY
25 - 55	◇ N = 59 (4.8%)
23 - 24	◆ N = 43 (3.5%)
18 - 22	♦ N = 185 (15.2%)
14 - 17	+ N = 303 (24.9%)
1 - 13	+ N = 629 (51.6%)

**CONTRACTORS - 104F**  
 Sample collection by McEhannay Engineering Services Limited, Vancouver, B.C.  
 Sample preparation by Kamloops Research and Assay Lab, Kamloops, B.C.  
 Sediment chemical analyses by Bondar Clagg and Company Limited, North Vancouver, B.C.  
 Water chemical analyses by Barringer Magenta, Calgary, Alta.

**CONTRACTORS - 104G**  
 Sample collection by McEhannay Engineering Services Limited, Vancouver, B.C.  
 Sample preparation by Golder Associates, Ottawa, Ont.  
 Sediment chemical analyses by Bondar Clagg 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

104F (Zone 8) & 104G (Zone 9)



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 19 consists of sample location maps at 1:100 000 and 1:250 000 scales, symbol and value maps for 20 elements in stream sediments and 2 elements in stream waters, a current mineral inventory map, lists of field observations, 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 at:  
 Ministry Library in Victoria  
 Library of the Geological Survey of Canada  
 Map Library at the University of British Columbia, Vancouver

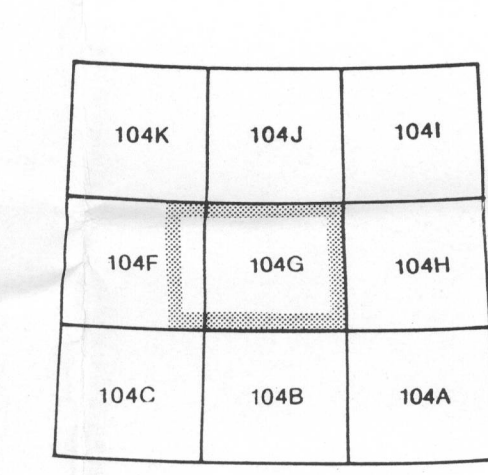
Map for purchase at:  
 Maps B.C.  
 553 Superior Street  
 Victoria, B.C.  
 V8V 1X3  
 (604) 387-1441

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 1Z4  
 (604) 387-3234

**COBALT (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

Elevation in feet above mean sea level  
 104G : Mean magnetic declination 1954, 30015' East in centre of map area, decreasing 4.0' annually  
 104F : Mean magnetic declination 1966, 28945' East in centre west edge of map area, increasing 3.8' annually

Province of British Columbia  
 Ministry of Energy, Mines and Petroleum Resources  
 Energy, Mines and Petroleum Resources Canada  
 Energy, Mines and Petroleum Resources Canada  
 This project is a contribution to the CANADA-BRITISH COLUMBIA MINERAL DEVELOPMENT AGREEMENT, 1985-1989.  
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**COBALT (ppm)**  
**STREAM SEDIMENTS**  
 B.C. RGS 19  
 GSC OPEN FILE 1646  
 104F - SUMDUM / 104G - TELEGRAPH CREEK  
 NORTHWESTERN BRITISH COLUMBIA, 1987

- LEGEND**
- STRATIFIED ROCKS**
- QUATERNARY**
- RECENT  
 [Rvb] (BSLT 64\*) Basalts, cinder, ash
- PLEISTOCENE AND RECENT  
 [Os] (TLL 64) Surficial clastic sediments and glacial deposits  
 [Qvo] (OLVB 64) Olivine basalt
- TERTIARY AND QUATERNARY**
- PLIOCENE AND PLEISTOCENE  
 [PPLM] (BSLT 63) LEVEL MOUNTAIN GROUP: basalt  
 [PPVb] (BTRT 63) Basalt, rhyolite, olivine, basalt  
 [PPVt] (RYLT 63) Rhyolite, trachyte, tuff
- TERTIARY**
- EOCENE  
 [ESL] (RYLT 59) SLOKO GROUP: rhyolite, trachyte, andesite, basalt
- CRETACEOUS AND TERTIARY  
 [KTvd] (ANDS 56) Andesite
- CRETACEOUS  
 [UKTC] (SANDS 55) TANGO CREEK: sandstone, siltstone, coal
- JURASSIC AND CRETACEOUS  
 [JKs] (SLSN 51) Siltstone, greywacke, conglomerate, shale (upper HAZELTON GROUP in part)
- JURASSIC  
 [JHS] (SLSN 50) HAZELTON GROUP: siltstone, greywacke, sandstone, tuff  
 [mJvb] (BSLT 49) Basalt, pillow lava, tuff, volcaniclastic rocks  
 [Jp] (SHLE 49) Shale  
 [JT] (GGLM 49) TAKWAHON: conglomerate, grit, greywacke  
 [Jcg] (CGGK 49) Conglomerate, grit, greywacke
- TRIASSIC  
 [uTp] (PLLT 45) Phyllite, argillite, siltstone, greywacke, limestone  
 [uTs] (SLSN 45) Siltstone, chert, sandstone, tuff  
 [uTsv] (ANDV 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks  
 [uTSt] (VLK 45) STUHN GROUP: undifferentiated volcanic and sedimentary rocks  
 [uTv] (ANBT 45) Andesite, basalt  
 [uTv] (ANDS 45) Andesite, pyroclastic rocks, greenstone
- PERMIAN  
 [Pc] (LMSH 56) Limestone, minor, calcareous shale
- CARBONIFEROUS AND PERMIAN  
 [CPen] (ECST 35) Schist, gneiss  
 [CPsv] (GRNS 35) Greenstone, limestone, shale, clastic sedimentary rocks
- MISSISSIPPIAN  
 [Mcl] (LMTF 34) Limestone, tuff, chert
- PLUTONIC ROCKS**
- CRETACEOUS AND TERTIARY  
 [KTfp] (FLSP 56) Felsite, feldspar porphyry  
 [KTqm] (QTMZ 56) Quartz monzonite  
 [JTy] (LSYN 56) Leucocratic syenite
- JURASSIC AND CRETACEOUS  
 [JKgd] (GRDR 51) Granodiorite  
 [JKqd] (QRZD 51) Quartz diorite  
 [JKdl] (DORT 51) Diorite
- TRIASSIC AND JURASSIC  
 [TJgd] (GRDR 46) Granodiorite  
 [TJdi] (QRZD 46) Quartz diorite, diorite, amphibolite  
 [TJy] (SYNT 46) Syenite, monzonite
- TRIASSIC  
 [Tsh] (DORT 42) Diorite, gabbro  
 [Tdi] (DORT 42) Diorite, monzonite
- PERMIAN AND TRIASSIC  
 [Pku] (UMFC 40) Ultramafic rocks, serpentinite
- AGE UNKNOWN**
- [gd] (GRDR 65) Granodiorite  
 [m] (AMPH 65) Amphibolite, gneiss, migmatite
- SYMBOLS**
- Geological boundary  
 Fault  
 Thrust fault  
 Thrust fault  
 Glaciers  
 Field duplicate sample sites
- GEOLOGY AND MINERAL DEPOSITS**
- Geological base and legend are derived from:  
 Southey, J.G., Brew, D.A. and Okulitch, A.V. (compilers) (1979) *Index Map, Geological Survey of Canada, Map 1418A.*  
 \*A mnemonic code assigned to rock types and recorded as part of field observations.
- 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, No. 104F - SUMDUM AND 104G - TELEGRAPH CREEK; assessment reports refer to Assessment Report Index Map, No. 104F - SUMDUM AND 104G - TELEGRAPH CREEK; bedrock geological mapping refer to Index of Bedrock Mapping, 1983; for mineral and placer claim maps contact the Ministry of Energy, Mines and Petroleum Resources, Mineral Titles Branch, Victoria, for current editions and status.

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**STREAM SEDIMENTS**  
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 NORTHWESTERN BRITISH COLUMBIA, 1987