

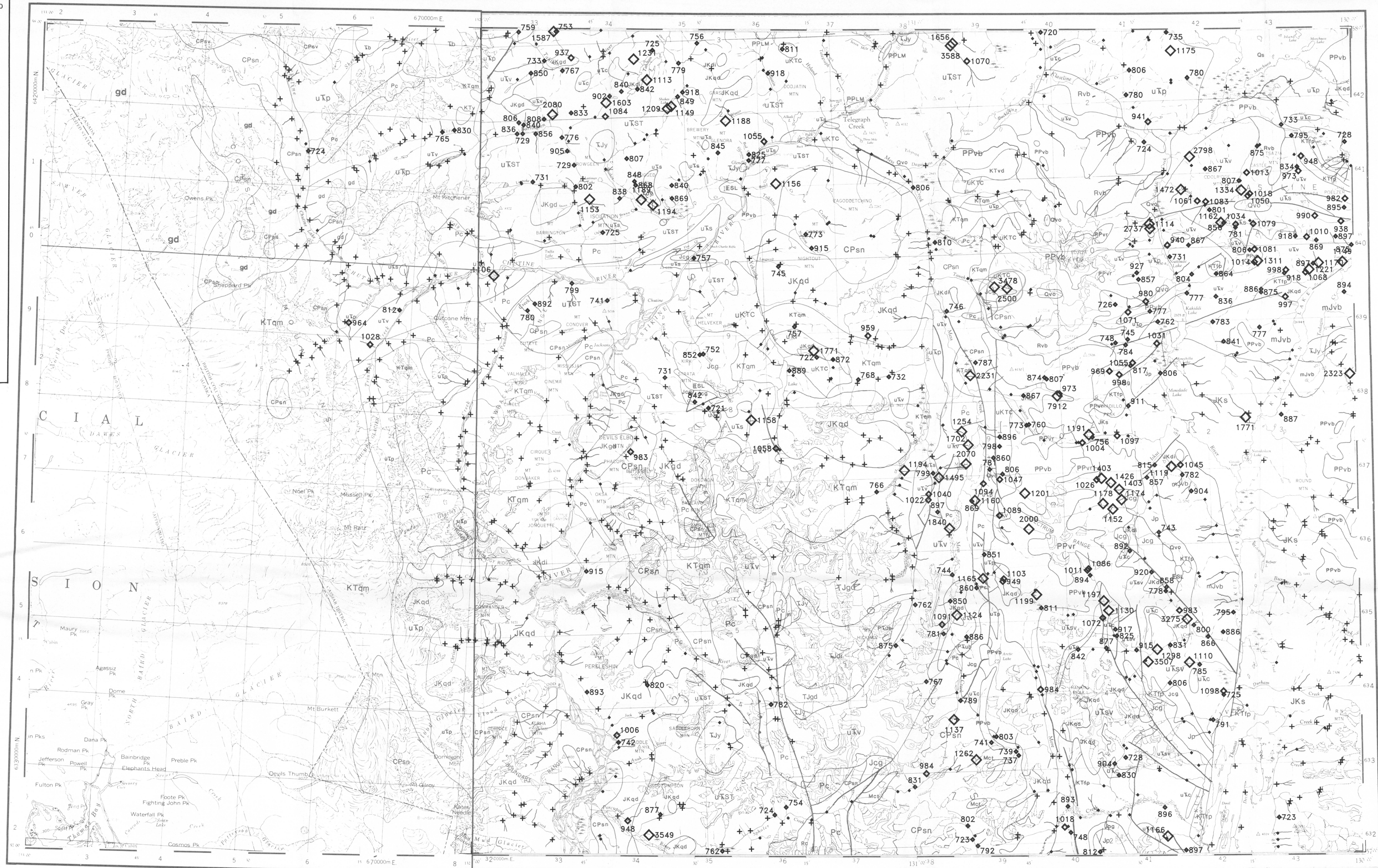
CONCENTRATION	FREQUENCY
1104 - 7912	◇ N = 64 (5.3%)
928 - 1103	◆ N = 58 (4.8%)
719 - 927	♦ N = 188 (15.4%)
535 - 718	• N = 304 (24.9%)
80 - 534	+ N = 605 (49.6%)

CONTRACTORS - 104F
 Sample collection by McElhaney 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 Berlinger Magenta, Calgary, Alta.

CONTRACTORS - 104G
 Sample collection by McElhaney Engineering Services Limited, Vancouver, B.C.
 Sample preparation by Goldor 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 1:500,000 scale, symbols and values maps for 20 elements in stream sediments and 2 elements in stream water, a current mineral 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 at:
 Ministry Library in Victoria
 Libraries of the Geological Survey of Canada
 Map Library at the University of British Columbia, Vancouver

for purchase at:
 Maps B.C.
 555 Superior Street
 Victoria, B.C.
 V8V 1X5
 (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 Building
 Victoria, British Columbia, V8V 1X4
 (604) 387-3234

**MANGANESE (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

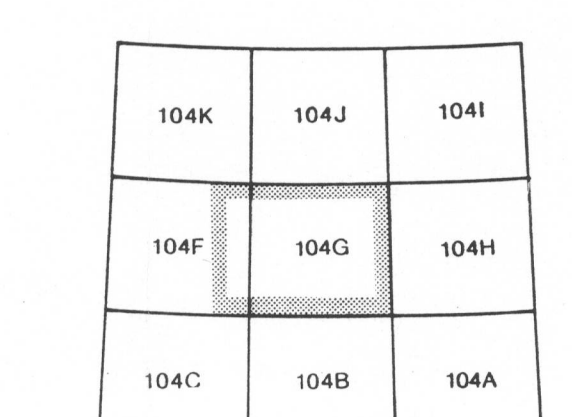
NORTHWESTERN BRITISH COLUMBIA, 1987

SCALE 1:250,000

Elevation in feet above mean sea level
 104G: Mean magnetic declination 1954, 30°15' East in centre of map area, decreasing 4.0' annually
 104F: Mean magnetic declination 1956, 28°45' 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, 1985-1990



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**MANGANESE (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) (BSL 64) Basalts, cinder, ash

PLEISTOCENE AND RECENT
 (Qs) (TLL 64) Surficial clastic sediments and glacial deposits
 (Qvo) (OLVB 64) Olivine basalt

TERTIARY AND QUATERNARY

PLIOCENE AND PLEISTOCENE
 (PPLM) (BSL 63) LEVEL MOUNTAIN GROUP: basalt
 (PPvb) (BTRT 63) Basalt, rhyolite, olivine, basalt
 (PPv) (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) (SNDS 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) (BSL 49) Basalt, pillow lava, tuff, volcaniclastic rocks
 (Jp) (SHLE 49) Shale
 (JT) (COLM 49) TANKWAHONI conglomerate, grit, greywacke
 (Jcg) (CGGK 49) Conglomerate, grit, greywacke

TRIASSIC

(uP) (PLIT 45) Phyllite, argillite, siltstone, greywacke, limestone
 (uKs) (SLSN 45) Siltstone, chert, sandstone, tuff
 (uLsv) (ANDV 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks
 (uLST) (VLRK 45) STUHNH GROUP: undifferentiated volcanic and sedimentary rocks
 (uLvt) (ANBT 45) Andesite, basalt
 (uLvd) (ANDS 45) Andesite, pyroclastic rocks, gneiss

PERMIAN

(Pc) (LMSH 36) Limestone, minor calcareous shale

CARBONIFEROUS AND PERMIAN

(CPsn) (SCST 35) Schist, gneiss
 (CPsv) (GRNS 35) Gneiss, limestone, shale, clastic sedimentary rocks

MISSISSIPPIAN

(Mct) (LMTF 34) Limestone, tuff, chert

PLUTONIC ROCKS

CRETACEOUS AND TERTIARY

(KTfp) (FLSP 56) Felsite, feldspar porphyry
 (KTqm) (QTMZ 56) Quartz monzonite
 (KTy) (LSYN 56) Leucocratic syenite

JURASSIC AND CRETACEOUS

(JKqd) (GRDR 51) Granodiorite
 (JKqd) (QRZD 51) Quartz diorite
 (JKdi) (DORT 51) Diorite

TRIASSIC AND JURASSIC

(TJgd) (GRDR 46) Granodiorite
 (TJdi) (QRZD 46) Quartz diorite, diorite, amphibolite
 (TJly) (SYNT 46) Syenite, monzonite

TRIASSIC

(Tb) (DORT 42) Diorite, gabbro
 (Tdi) (DORT 42) Diorite, monzonite

PERMIAN AND TRIASSIC

(PSub) (UMFC 40) Ultramafic rocks, serpentinite

AGE UNKNOWN

(gd) (GRDR 65) Granodiorite
 (m) (AMPH 65) Amphibolite, gneiss, migmatite

SYMBOLS

Geological boundary
 Fault
 Thrust fault
 Glaciers
 Field duplicate sample sites

GEOLOGY AND MINERAL DEPOSITS

Geological base and legend are derived from:
 Southern J.G. Brew, D.A. and Chalkley, A.V. (compilers) (1979) Iktai River, Geological Survey of Canada, Map 1418.

*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, M 104F - SUMDUM and M 104G - TELEGRAPH CREEK; assessment reports refer to Assessment Report Index Map, AR 104F - SUMDUM and AR 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 Files Branch, Victoria, for current editions and status.

**MANGANESE (ppm)
 STREAM SEDIMENTS**

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 NORTHWESTERN BRITISH COLUMBIA, 1987