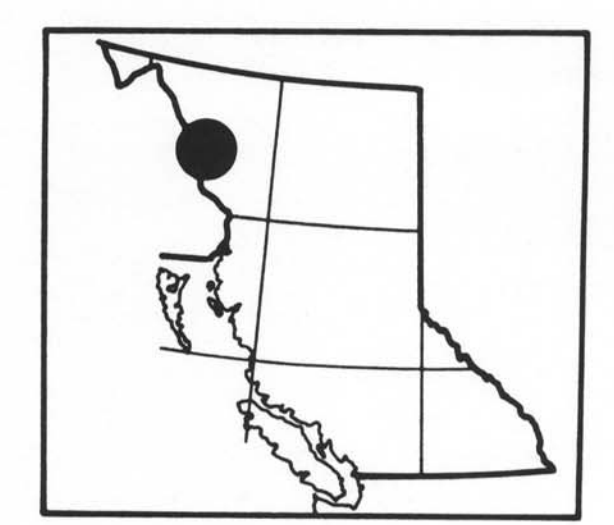
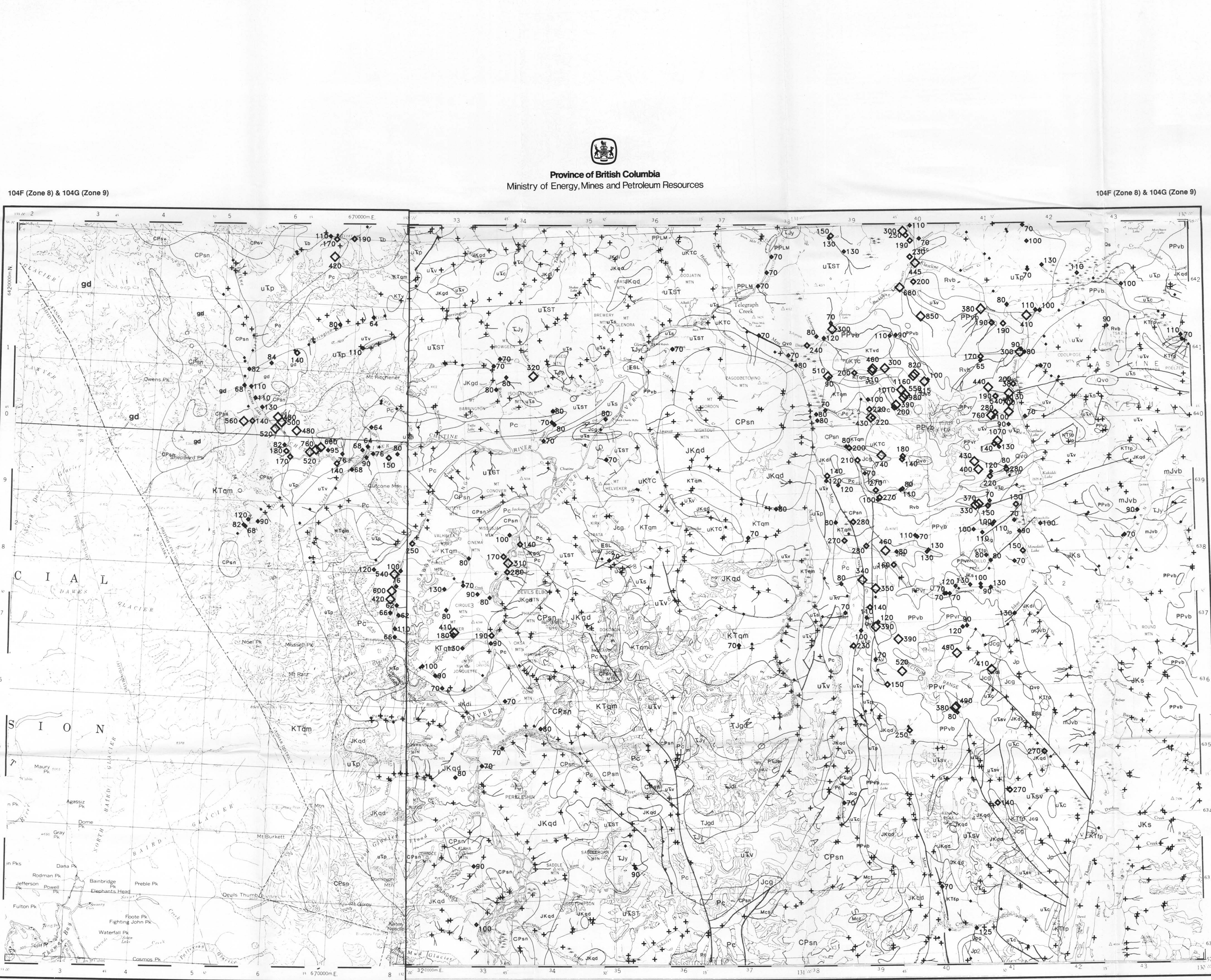


CONCENTRATION	FREQUENCY
281 - 1160	◆ N = 56 (4.7%)
131 - 280	◆ N = 55 (4.6%)
61 - 130	◆ N = 158 (13.3%)
41 - 60	◆ N = 163 (13.8%)
10 - 40	◆ N = 753 (63.5%)

CONTRACTORS - 104F
Sample collection by McElhannay Engineering Services Limited, Vancouver, B.C.
Sample preparation by Kamloops Research and Assay Lab, Kamloops, B.C.
Sediment chemical analyses by Bonder Clegg and Company Limited, North Vancouver, B.C.
Water chemical analyses by Barringer Magenta, 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 Bonder Clegg and Company Limited, Ottawa, Ont.
Water chemical analyses by Chemex Labs, North Vancouver, B.C.

OPEN FILE PRODUCTION
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Ministry of Energy, Mines and Petroleum Resources
Geological Survey Branch
Applied Geochemistry

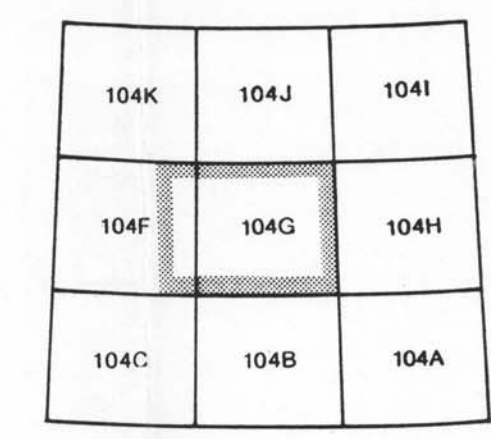


This map forms one of a series of open file maps (B.C. RGS 18-20) released in 1988 by the British Columbia Geological Survey in co-operation with the Geological Survey of Canada.
Open File RGS 19 consists of sample location maps at 1:100 000 and 1:250 000 scales, symbol and value maps for 20 elements in stream sediments and 2 elements in stream waters, a current mineral inventory map, 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 to:
Ministry Library in Victoria
Library of the Geological Survey of Canada
Map Library at the University of British Columbia, Vancouver
for purchase at:
Map B.C.
555 Superior Street
Vancouver, B.C.
(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

FLUORIDE (ppb)
STREAM WATERS
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, 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 Petroleum Resources Canada
THIS PROJECT IS A CONTRIBUTION TO THE CANADA-BRITISH COLUMBIA MINERAL DEVELOPMENT AGREEMENT, 1985-1989



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FLUORIDE (ppb)
STREAM WATERS
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
Qs (TLL 64) Surficial clastic sediments and glacial deposits
Qv (CLVB 64) Olivine basalt

TERTIARY AND QUATERNARY
PLIOCENE AND PLEISTOCENE
PpLm (BSLT 63) LEVEL MOUNTAIN GROUP: basalt
PpVb (BTRT 63) Basalt, rhyolite, olivine, basalt
PpVr (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 (SND 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 (CGLM 49) TAKWAHONI: 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
uTd (ANDS 45) Andesite, pyroclastic rocks, greenstone

PERMIAN
Pc (LSM 36) Limestone, minor, calcareous shale

CARBONIFEROUS AND PERMIAN
CpSn (SCST 35) Schist, gneiss
CpSv (GRNS 35) Greenstone, limestone, shale, clastic sedimentary rocks

MISSISSIPPIAN
Mct (LMTF 34) Limestone, tuff, chert

PLUTONIC ROCKS

CRETACEOUS AND TERTIARY
KTp (FLSP 56) Felsite, feldspar porphyry
KTm (QTMZ 56) Quartz monzonite
KTy (LSYN 56) Leucocratic syenite

JURASSIC AND CRETACEOUS
JKgd (GRDR 51) Granodiorite
JKqd (GRZD 51) Quartz diorite
JKdi (DORT 51) Diorite

TRIASSIC AND JURASSIC
TJgd (GRDR 46) Granodiorite
TJdi (GRZD 46) Quartz diorite, diorite, amphibolite
TJy (SYNT 46) Syenite, monzonite

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

PERMIAN AND TRIASSIC
Pkb (JUMFC 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 Keilich, A.V. (compilers) (1979) Iskut River, 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, M 104F - SUMDUM and M 104G - TELEGRAPH CREEK; assessment reports refer to Assessment Report Index Map, AS 104F - SUMDUM and AS 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.

FLUORIDE (ppb)
STREAM WATERS
B.C. RGS 19
GSC OPEN FILE 1646
104F - SUMDUM / 104G - TELEGRAPH CREEK
NORTHWESTERN BRITISH COLUMBIA, 1987