

SURFICIAL GEOLOGY

COLLUVIUM

C Material transported by gravity or material on gentle slopes derived from physical weathering of bedrock. Includes talus, landslide debris, debris flow deposits and alluvial cones.

FLUVIAL DEPOSITS

F Gravels, sands and silts deposited by streams and rivers, includes alluvial fans and river terraces.

ICE

I Permanent snow and ice; glaciers and snowfields.

GLACIAL DEPOSITS

M Clay, sand and rock fragments deposited by glaciers, includes Fraser Glaciation till and recent moraines. This unit includes small areas of colluvium, bedrock, glacioluvial, glaciolacustrine and eolian deposits.

BEDROCK

R Outcrops and rock covered by a few centimetres of surficial material. Includes up to 30% colluvium by area.

VOLCANIC DEPOSITS

V Unconsolidated volcanic ash, cinder and coarse ejecta and lava flows younger than Fraser Glaciation.

SYMBOLS

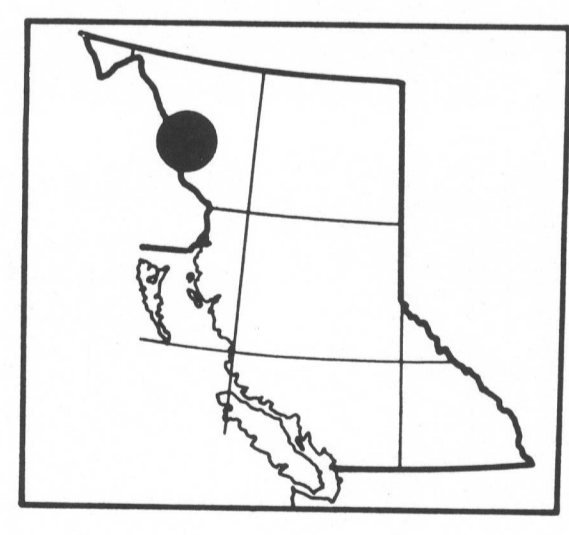
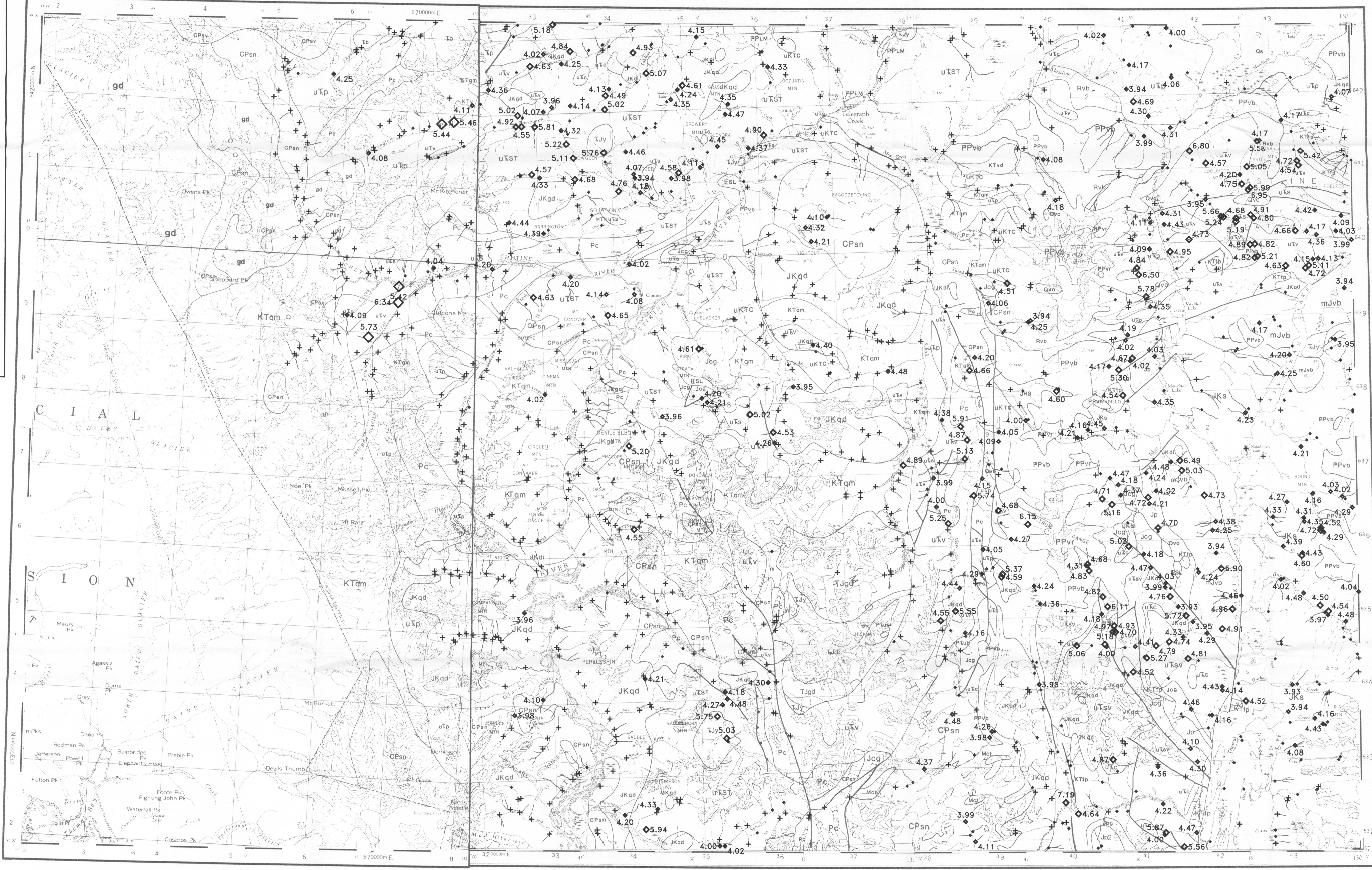
Meltwater channel

Glacial striation, direction of flow known, unknown

Drumlin, direction of flow known

Source of Information:
Ryder, J.M. (1984) Inventory for the Skeena-Iskut Area (NTS 104F, 104G, and parts of 104H and 104I), British Columbia Ministry of Environment, Technical Report 11.

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, symbols and value scales 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 at:
Ministry Library in Victoria
Library of the Geological Survey of Canada
Map Library at the University of British Columbia, Vancouver

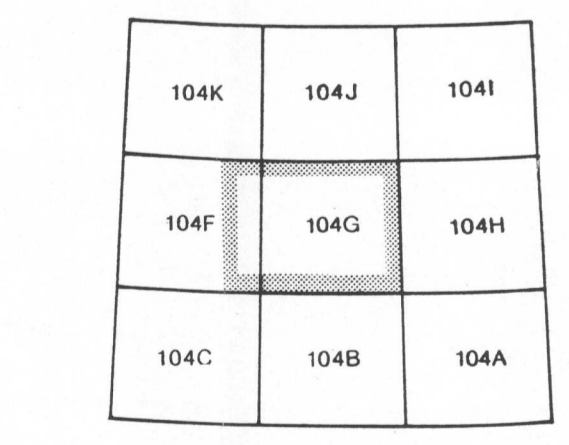
For purchase at:
Map B.C.
353 Superior Street
Victoria, B.C.
(604) 387-1441

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

IRON (%)
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, 30915' East in centre of map area, decreasing 4.0' annually
104F: Mean magnetic declination 1986, 28045' 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
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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IRON (%)
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

Qs (ITLL 64) Surficial clastic sediments and glacial deposits

Qvb (COLVB 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

Ktv (ANDS 56) Andesite

CRETACEOUS

UKTC (ANDS 55) TANGO CREEK: sandstone, siltstone, coal

JURASSIC AND CRETACEOUS

JKS (SLSN 51) Siltstone, greywacke, conglomerate, shale (upper HAZELTON GROUP is part)

JURASSIC

JHS (SLSN 50) HAZELTON GROUP: siltstone, greywacke, sandstone, tuff

mjbv (BSLT 49) Basalt, pillow lava, tuff, volcaniclastic rocks

Jp (SHE 49) Shale

JT (JGLM 48) TAKWAHON: conglomerate, grit, greywacke

Jcg (JGGK 49) Conglomerate, grit, greywacke

TRIASSIC

Utd (PLT 45) Phyllite, argillite, siltstone, greywacke, limestone

Uts (SLSN 45) Siltstone, chert, sandstone, tuff

Usv (ANDV 45) Undifferentiated andesite, volcanic and clastic sedimentary rocks

Ust (VLRK 45) STUHNIG GROUP: undifferentiated volcanic and sedimentary rocks

Utv (ANBT 45) Andesite, basalt

Uvd (ANDS 45) Andesite, pyroclastic rocks, greenstone

PERMIAN

Pc (LMSH 38) Limestone, minor calcareous shale

CARBONIFEROUS AND PERMIAN

CPan (BCST 35) Schist, gneiss

CPav (GRNS 35) Gneiss, limestone, shale, clastic sedimentary rock

MISSISSIPPIAN

Mcl (LMTF 34) Limestone, tuff, chert

PLUTONIC ROCKS

CRETACEOUS AND TERTIARY

KTtp (FLSP 56) Felsite, felspar porphyry

KTam (DTMZ 56) Quartz monzonite

KTy (LSYN 56) Leucocratic syenite

JURASSIC AND CRETACEOUS

JKad (GRDR 51) Granodiorite

JKqd (GRZD 51) Quartz diorite

JKdl (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

Pkub (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 Okulitch, 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, M1 104F - SUMDUM and M1 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 Titles Branch, Victoria, for current editions and status.

CONCENTRATION	FREQUENCY
4.88 - 7.19	◇ N = 63 (5.2%)
4.49 - 4.87	◇ N = 58 (4.8%)
3.93 - 4.48	◆ N = 183 (15.0%)
3.26 - 3.92	• N = 304 (24.9%)
0.50 - 3.25	+ N = 611 (50.1%)

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 Bondar Clogg 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 Bondar Clogg 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

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