

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 avalanche 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.

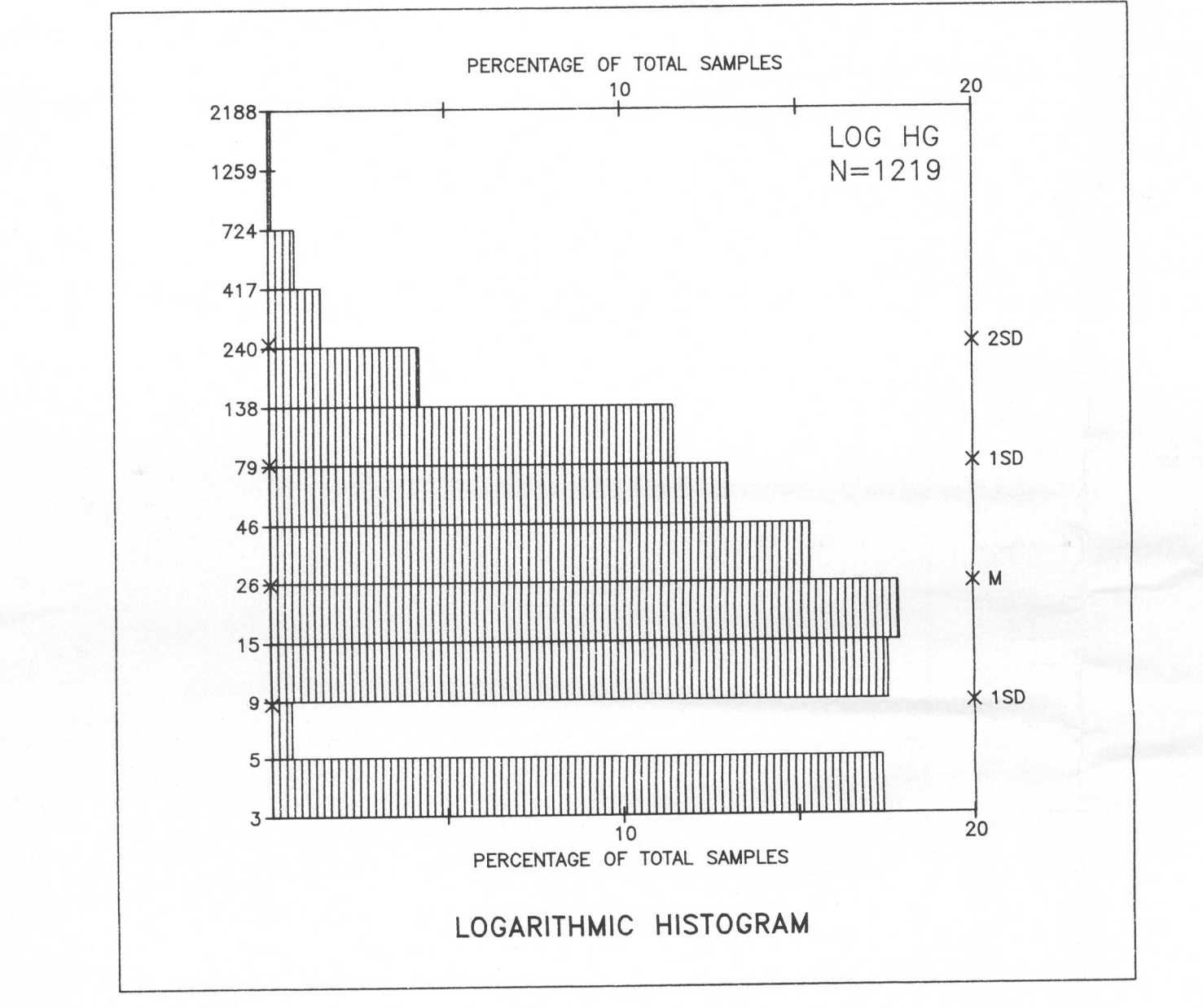
GLACIAL DEPOSITS
M Clay, sand and rock fragments deposited by glaciers, includes Fraser Glaciation till and recent moraines. This unit includes small areas of colluvium, bedrock, glacioluvial, glaciolacustrine and colluvial deposits.

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
 Melwater channel
 Glacial striation, direction of flow known, unknown
 Dune/dune, direction of flow known

Source of information:
 Ryden, J.M. (1984) Inventory for the Skeena-Iskut Area (N75 104F, 104G, and parts of 104B and 104H), British Columbia Ministry of Environment, Technical Report 11.

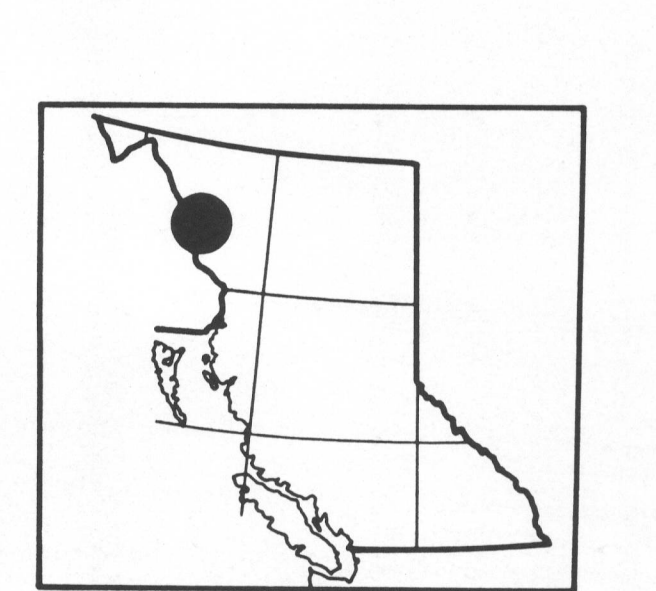
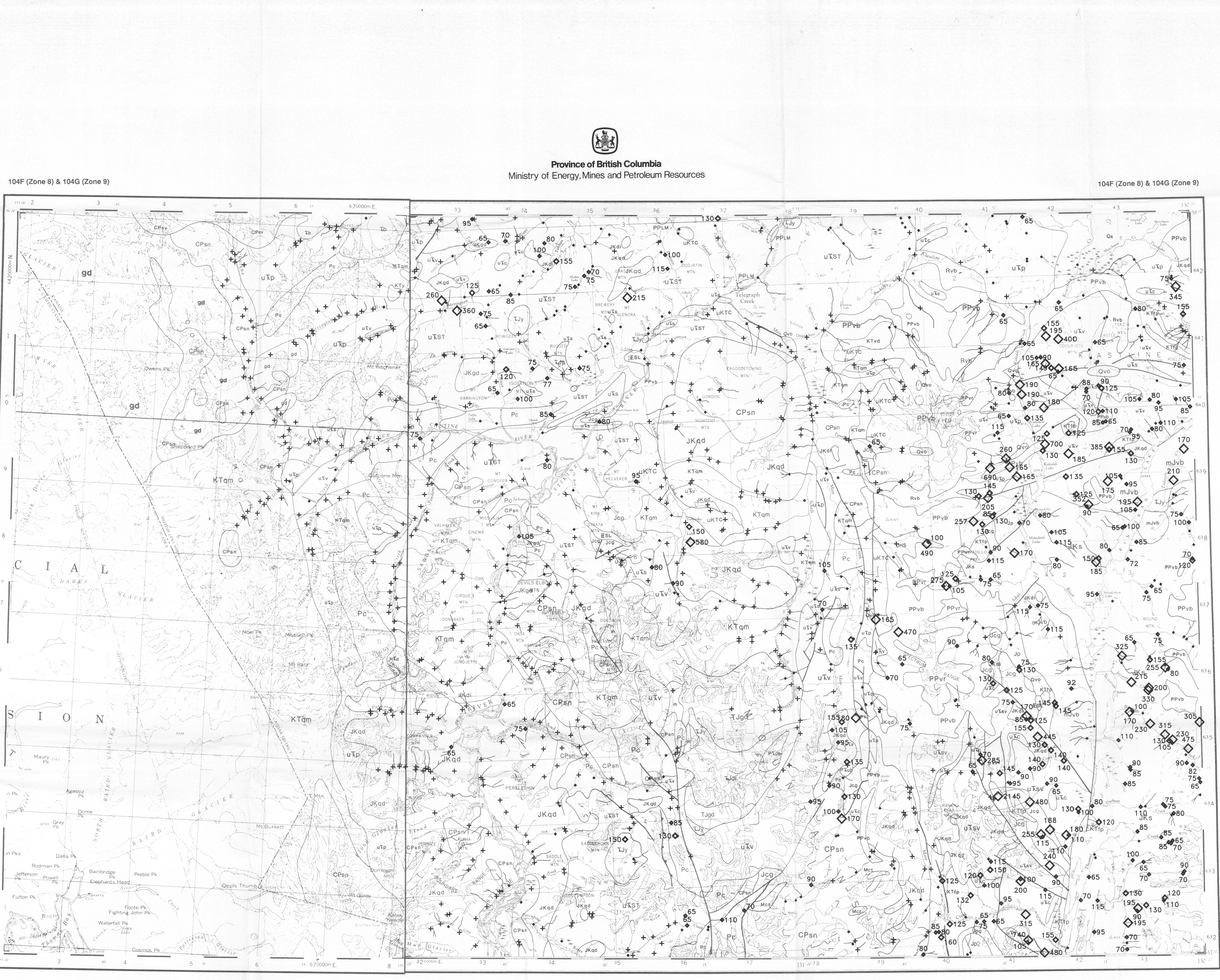


CONCENTRATION	FREQUENCY
161 - 2145	◇ N = 60 (4.9%)
116 - 160	◆ N = 57 (4.7%)
61 - 115	♦ N = 174 (14.3%)
26 - 60	• N = 276 (22.6%)
5 - 25	+ N = 652 (53.5%)

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 Clegg and Company Limited, North Vancouver, B.C.
 Water chemical analyses by Berringer 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 Clegg and Company Limited, Ottawa, Ont.
 Water chemical analyses by Chemes Labs, North Vancouver, B.C.

OPEN FILE PRODUCTION
 British Columbia
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 Geological Survey Branch
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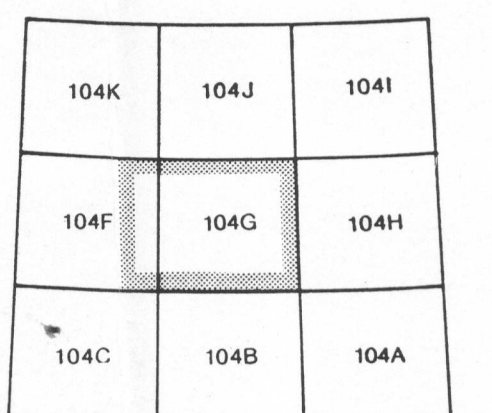
This map forms one of a series of open file maps (B.C. RGS 18-20) released in 1988 by the British Columbia Geological Survey in cooperation with the Geological Survey of Canada. Open File RGS 19 consists of sample location maps at 1:100,000 and 1:250,000 scales, symbols and value maps for 29 elements in stream sediments and 2 elements in stream waters, a current mineral inventory map, findings of field and analytical results and a statistical summary. Copies of map material and findings of field observations, analytical data and methods, from which the open file was prepared are available for reference at:
 Military Library in Victoria
 Libraries of the Geological Survey of Canada
 Map Library at the University of British Columbia, Vancouver
 Map Library at:
 Victoria, B.C.
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 (604) 387-4441
 The data are also available in digital form on MS-DOS 5 1/4" diskettes. For further information please contact:
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Province of British Columbia
 Ministry of Energy, Mines and Petroleum Resources

MERCURY (ppb)
 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, 3001° East in centre of map area, decreasing 4.0° annually
 104F: Mean magnetic declination 1956, 2804° 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, 1985-1990



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

LEGEND
STRATIFIED ROCKS

QUATERNARY
 RECENT
Rvb (BSLT 647) Basalt, cinder, ash
PLEISTOCENE AND RECENT
Qs (TILL 64) Surficial clastic sediments and glacial deposits
Qv (OLVB 64) Olivine basalt

TERTIARY AND QUATERNARY
 PLEISTOCENE AND PLEISTOCENE
PPLM (BSLT 63) LEVEL MOUNTAIN GROUP: basalt
PPvb (BTRT 63) Basalt, rhyolite, olivine, basalt
PPv (RYCT 63) Rhyolite, trachyte, tuff

TERTIARY
 EOCENE
ESL (RYCT 59) SLOKO GROUP: rhyolite, trachyte, andesite, basalt

CRETACEOUS AND TERTIARY
KTvd (ANDS 56) Andesite

CRETACEOUS
UKTC (SND5 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, volcanoclastic rocks
Jp (SHLE 49) Shale
JT (ICGLM 49) TAKWAHON: conglomerate, grit, greywacke
Jcg (ICGGK 49) Conglomerate, grit, greywacke

TRIASSIC
Utp (PLT 45) Phyllite, argillite, siltstone, greywacke, limestone
Uks (SLSN 45) Siltstone, chert, sandstone, tuff
Usv (ANDV 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks
UST (VLRK 45) STUHN GROUP: undifferentiated volcanic and sedimentary rocks
Ukv (ANB 45) Andesite, basalt
Ulv (ANDS 45) Andesite, pyroclastic rocks, greenstone

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

CARBONIFEROUS AND PERMIAN
CPan (SCST 39) Schist, gneiss
CPsv (GRNS 35) Greenstone, limestone, shale, clastic sedimentary rock

MISSISSIPPIAN
Mct (LMTF 34) Limestone, tuff, chert

PLUTONIC ROCKS
KTfp (FLSP 56) Felsite, felsic porphyry
KTqm (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
Tjd (GRZD 46) Quartz diorite, diorite, amphibolite
Tjy (SYNT 46) Syenite, monzonite

TRIASSIC
Td (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, G.J., Brown, D.A. and Chalkin, A.V. (compilers) (1979) Iskut River, Geological Survey of Canada, Map 1419A
 *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 - SUNDUM and M 104G - TELEGRAPH CREEK; Assessment reports refer to Assessment Report Index Map, AR 104F - SUNDUM 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.

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 104F - SUNDUM / 104G - TELEGRAPH CREEK
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