



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.

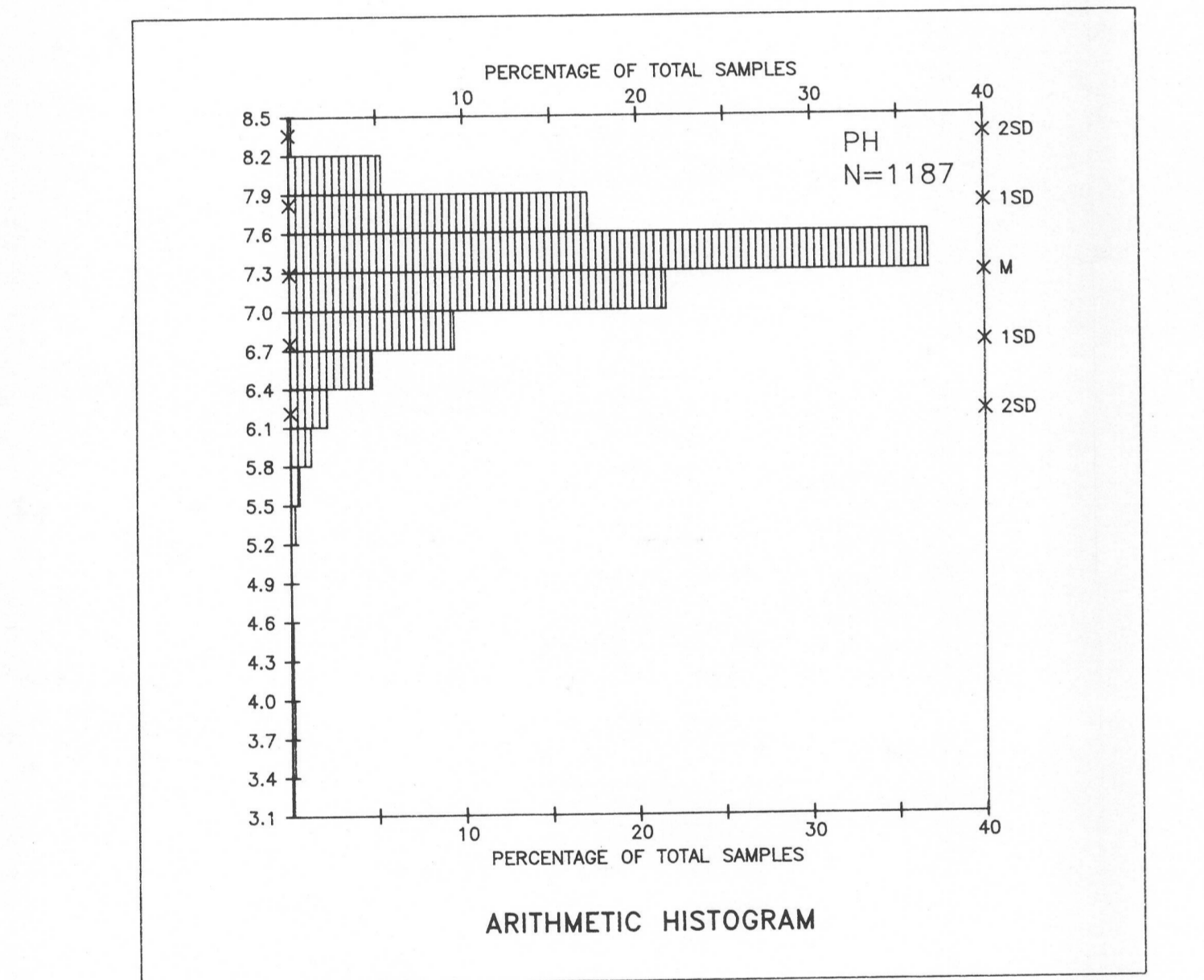
GLACIAL DEPOSITS
M Clay, sand and rock fragments deposited by glaciers, includes Fraser Glaciation till and recent moraines. This unit includes small areas of colluvium, bedrock, glacioluvial, glaciolacustrine and eolian deposits.

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
 Meander channel
 Glacial station, direction of flow known, unknown
 Drumlin, direction of flow known

Source of Information:
 Ryder, J.M. (1964) Inventory for the Sibley Island Area (NTS 104F, 104G, and parts of 104J and 104H). British Columbia Ministry of Environment, Technical Report 11.



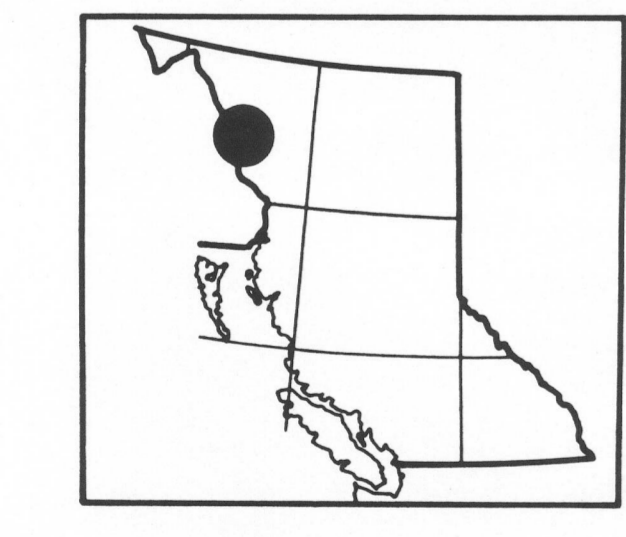
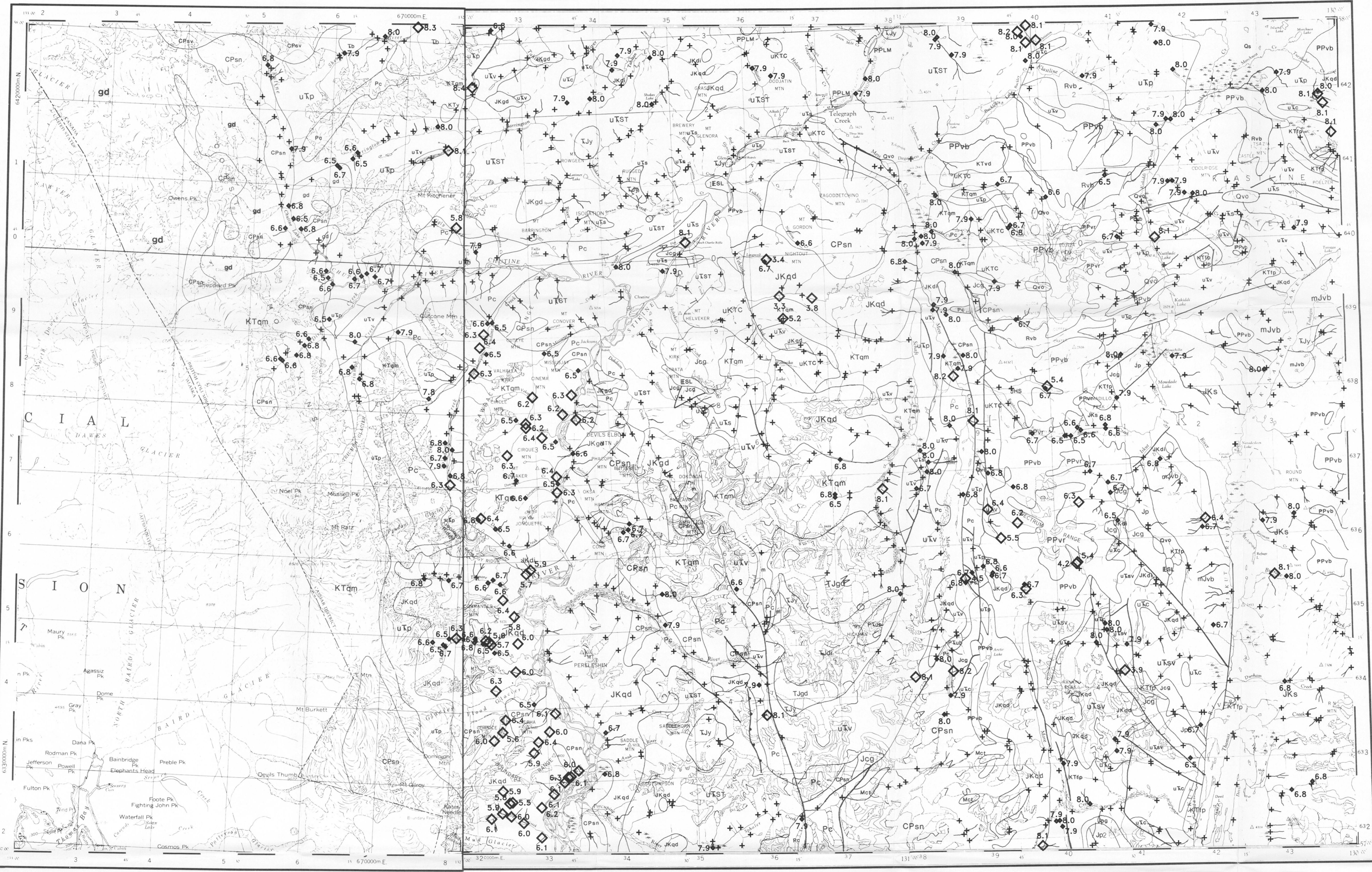
CONCENTRATION	FREQUENCY
8.1 - 8.4	◆ N = 21 (1.8%)
7.9 - 8.0	◆ N = 87 (7.3%)
6.9 - 7.8	+ N = 909 (76.6%)
6.5 - 6.8	◆ N = 106 (8.9%)
3.3 - 6.4	◆ N = 64 (5.4%)

CONTRACTORS - 104F
 Sample collection by McElhenny 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 Barringer Magenta, Calgary, Alta.

CONTRACTORS - 104G
 Sample collection by McElhenny 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 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 19-20) released in 1988 by the British Columbia Geological Survey in cooperation with the Geological Survey of Canada. The map covers an area of 1250 000 acres, 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 this 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.
 553 Superior Street
 Victoria, B.C.
 (250) 387-1441

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

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Province of British Columbia
 Ministry of Energy, Mines and Petroleum Resources

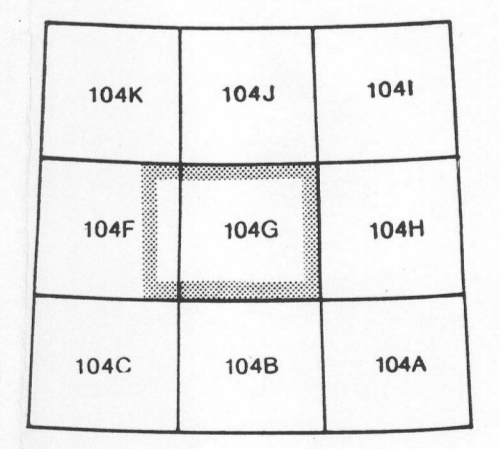
104F (Zone 8) & 104G (Zone 9)

pH
 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
 NORTH-WESTERN 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 1966, 28°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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pH
 STREAM WATERS
 B.C. RGS 19
 GSC OPEN FILE 1646
 104F - SUMDUM / 104G - TELEGRAPH CREEK
 NORTH-WESTERN BRITISH COLUMBIA, 1987

LEGEND

QUATERNARY

RECENT
Rvb (BSLT 64) Basalt, cinder, ash

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

TERTIARY AND QUATERNARY

PLIOCENE AND PLEISTOCENE
PPv (BSLT 63) LEVEL MOUNTAIN GROUP: basalt
PPvb (BTRT 63) Basalt, rhyolite, olivine, basalt
PPvr (RYLT 63) Rhyolite, trachyte, tuff

TERTIARY

Eocene
ESL (RYLT 69) SLOKO GROUP: rhyolite, trachyte, andesite, basalt

CRETACEOUS AND TERTIARY
KTvd (ANDS 56) Andesite

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

JURASSIC AND CRETACEOUS
JKs (GLSN 51) Siltstone, greywacke, conglomerate, shale (upper HAZELTON GROUP in part)

JURASSIC
JHs (GLSN 50) HAZELTON GROUP: siltstone, greywacke, sandstone, tuff
mJvb (BSLT 49) Basalt, pillow lava, tuff, volcanoclastic rocks
Jp (SHLE 49) Shale
JT (CGLM 49) TAKWAHONI: conglomerate, grit, greywacke
Jcg (CGGK 49) Conglomerate, grit, greywacke

TRIASSIC
UTp (PLT 45) Phyllite, argillite, siltstone, greywacke, limestone
USL (SLSN 45) Siltstone, chert, sandstone, tuff
USv (ANOV 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks
UST (ULRK 45) STUHNI GROUP: undifferentiated volcanic and sedimentary rocks
UV (ANB 45) Andesite, basalt
UVd (ANDS 45) Andesite, pyroclastic rocks, greenstone

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

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

MISSISSIPPIAN
Mcl (LMTF 34) Limestone, tuff, chert

PLUTONIC ROCKS

CRETACEOUS AND TERTIARY
KTTP (FLSP 56) Feltsite, keldspar porphyry
KTqm (QTMZ 56) Quartz monzonite
KTy (LSYN 56) Leucocratic syenite

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

TRIASSIC AND JURASSIC
Tjgd (GRDR 46) Granodiorite
Tjd (GRZD 46) Quartz diorite, diorite, amphibolite
Tjy (SYNT 46) Syenite, monzonite

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

PERMIAN AND TRIASSIC
Pub (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.D., Bone, 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, 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 Titles Branch, Victoria, for current editions and status.

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