

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 II and recent moraines. This unit includes small areas of colluvium, bedrock, glacioluvial, glacioclastic and colluvial deposits.

BEDROCK

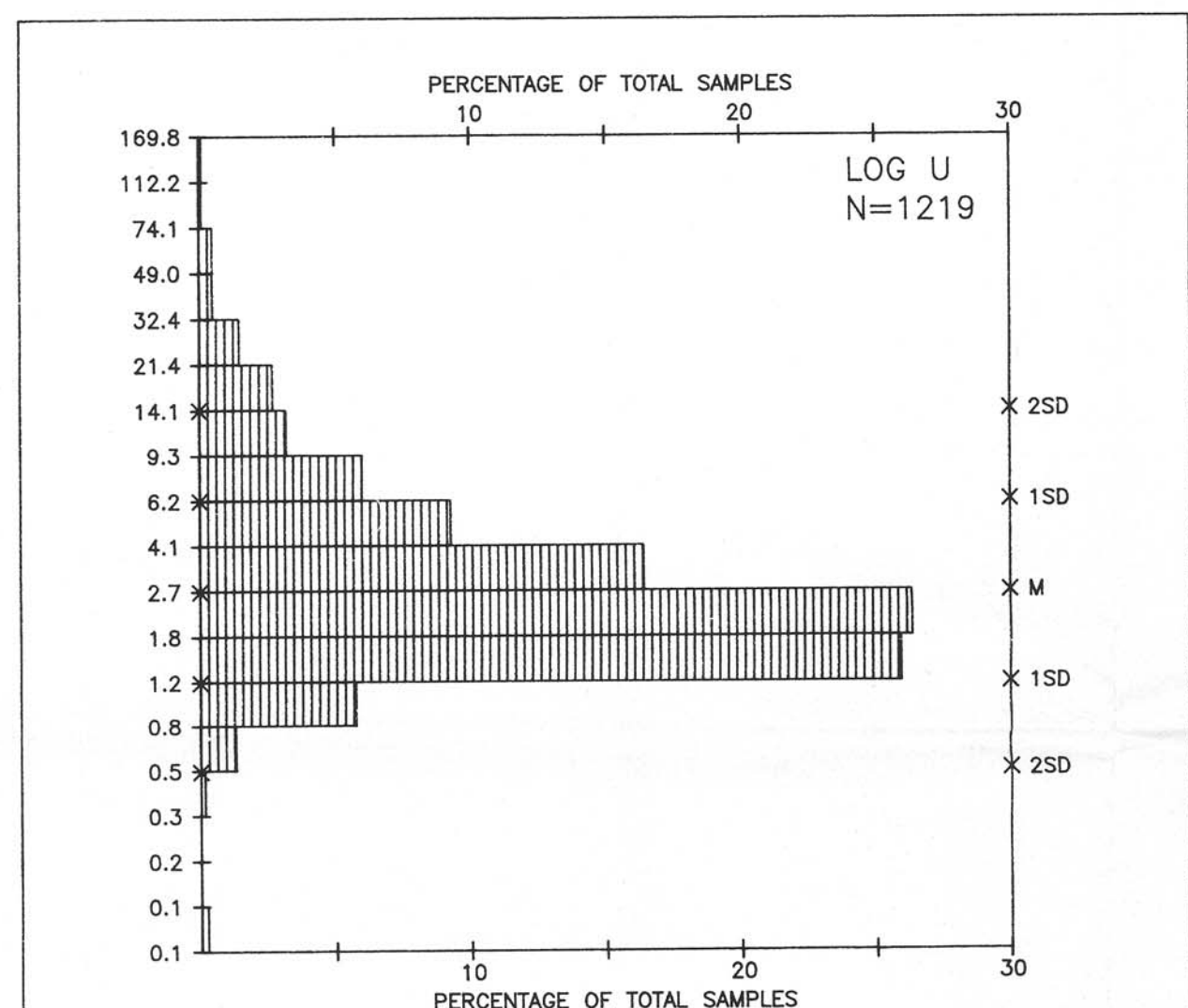
R Outcrops and rock covered by a few centimetres of surficial material. Includes up to 30% colluvium by area.

VOLCANIC DEPOSITS

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

SYMBOLS

Meltwater channel
Glacial striation, direction of flow known, unknown
Drumlin, direction of flow known
Source of Information:
Ryder, J.M. (1980) Inventory for the Stikine-Iskut Area (NTS 104F, 104G, and parts of 104B and 104H), British Columbia Ministry of Environment, Technical Report 11.



LOGARITHMIC HISTOGRAM

CONCENTRATION FREQUENCY

14.5 - 122.0	◆	N = 63 (5.2%)
8.2 - 14.4	◆	N = 63 (5.2%)
4.0 - 8.1	◆	N = 173 (14.2%)
2.3 - 3.9	+	N = 296 (24.3%)
0.1 - 2.2	+	N = 624 (51.2%)

CONTRACTORS - 104F

Sample collection by McElhanney 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 McElhanney 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.

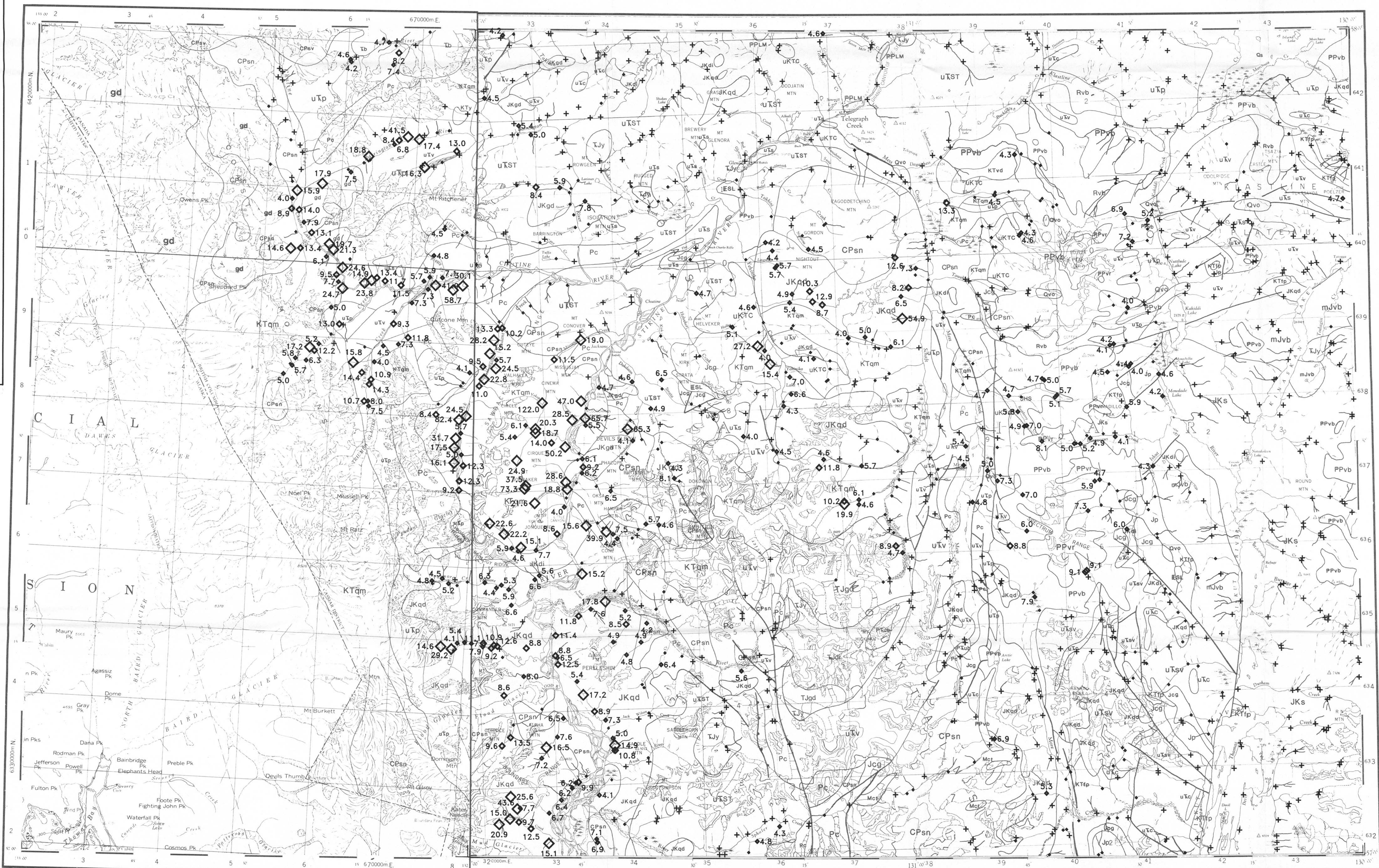
OPEN FILE PRODUCTION

British Columbia
Ministry of Energy, Mines and Petroleum Resources
Geological Survey Branch
Applied Geochemistry



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

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



URANIUM (ppm) STREAM SEDIMENTS

B.C. RGS 19

GSC OPEN FILE 1646

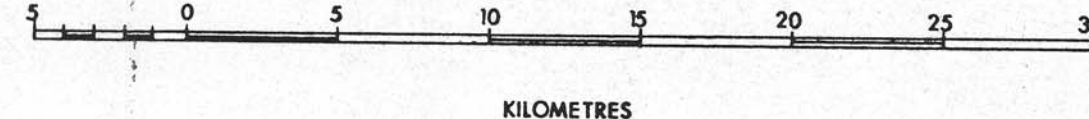
NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 111

CANADA-BRITISH COLUMBIA
MINERAL DEVELOPMENT AGREEMENT (1985-1989)

STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY

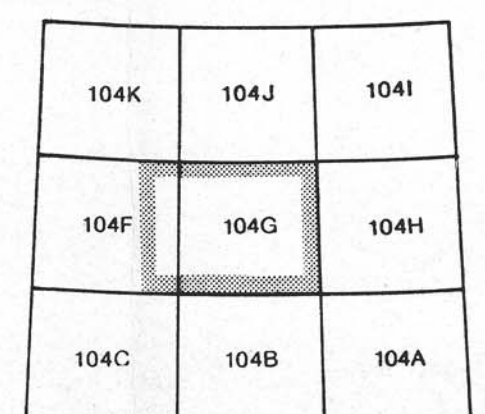
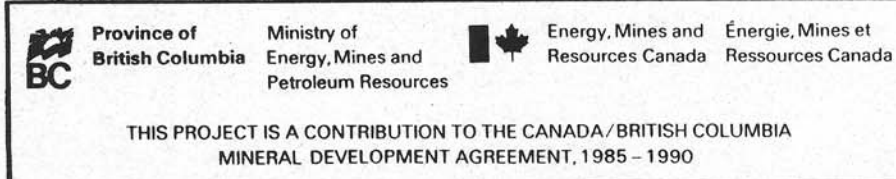
NORTHWESTERN BRITISH COLUMBIA, 1987

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 1966, 28°45' East in centre west edge of map area, increasing 3.8' annually

Universal Transverse Mercator Projection
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URANIUM (ppm)

STREAM SEDIMENTS

B.C. RGS 19

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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

Qvo (OLVB 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

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, volcaniclastic rocks

Jp (SHLE 49) Shale

JT (CGLM 49) TAWAHON: conglomerate, grit, greywacke

Jcg (CGGK 49) Conglomerate, grit, greywacke

TRIASSIC

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

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

uTsv (ANDV 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks

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

uTv (ANBT 45) Andesite, basalt

uTd (ANDS 45) Andesite, pyroclastic rocks, greenstone

PERMIAN

Pc (LSMH 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

KTdp (FLSP 56) Felsite, felspar porphyry

KTqm (QTMZ 56) Quartz monzonite

KTy (LSYN 56) Leucocratic syenite

JURASSIC AND CRETACEOUS

JKqd (GRDR 51) Granodiorite

JKqd (GRZD 51) Quartz diorite

JKdi (DORT 51) Diorite

TRIASSIC AND JURASSIC

TKjd (GRDR 46) Granodiorite

TKdi (GRZD 46) Quartz diorite, diorite, amphibolite

TKjy (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.C., Shaw, D.A. and Ouellet, 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, 1980; for mineral and placer claim maps contact the Ministry of Energy, Mines and Petroleum Resources, Mineral Titles Branch, Victoria, for current editions and status.

URANIUM (ppm)

STREAM SEDIMENTS

B.C. RGS 19

GSC OPEN FILE 1646

104F - SUMDUM / 104G - TELEGRAPH CREEK
NORTHWESTERN BRITISH COLUMBIA, 1987