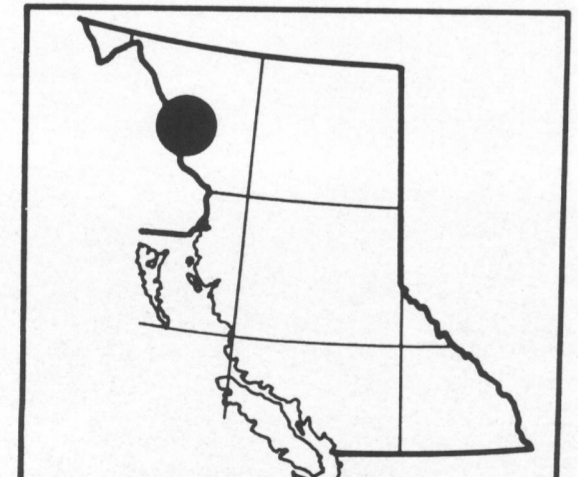
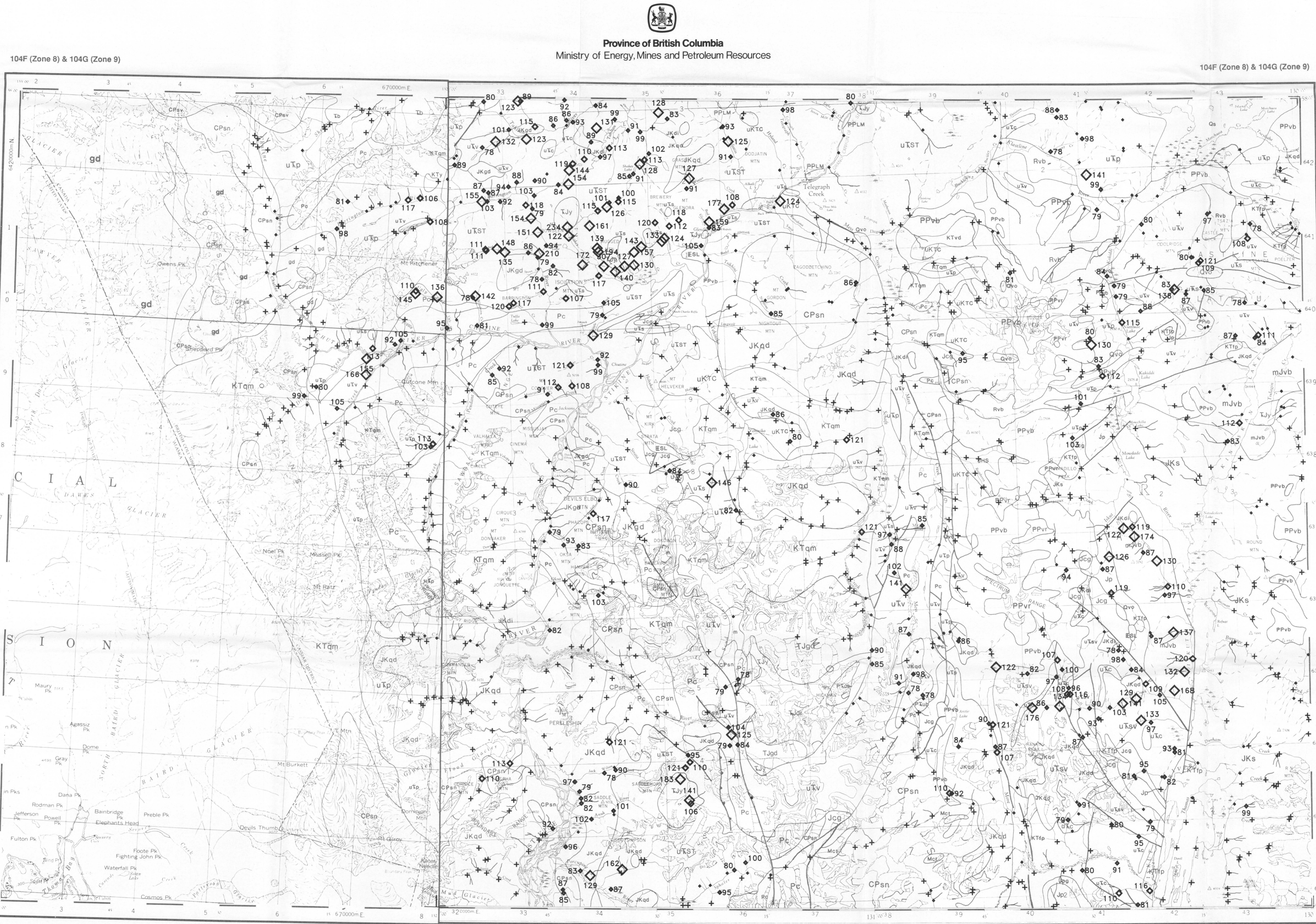


CONCENTRATION	FREQUENCY
122 - 307	◇ N = 63 (5.2%)
106 - 121	◇ N = 57 (4.7%)
78 - 105	◆ N = 173 (14.2%)
56 - 77	• N = 290 (23.8%)
5 - 55	+ N = 636 (52.2%)

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 Barringer 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, North Vancouver, B.C.
 Water chemical analyses by Chemex Labs, North Vancouver, B.C.

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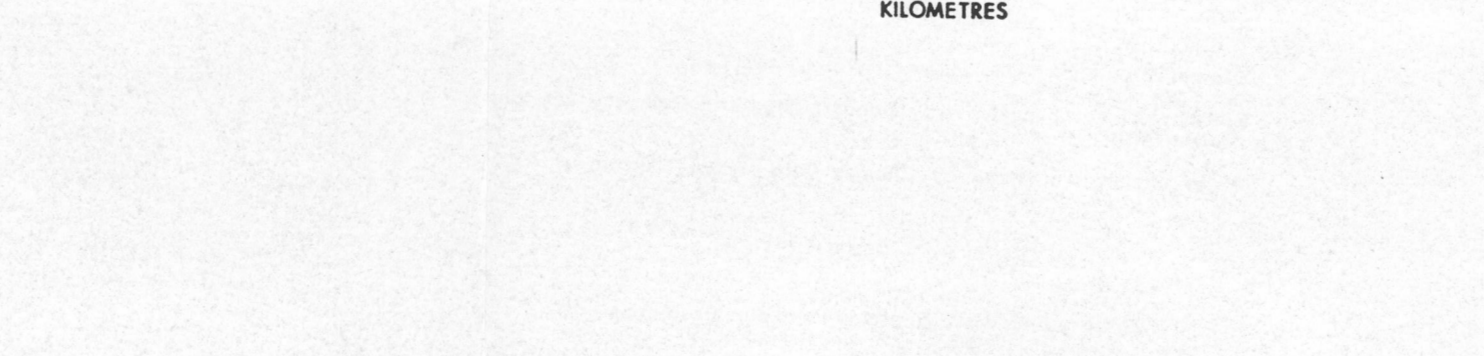
CONTRACTORS - 104F
 Sample collection by McEhannay Engineering Services Limited, Vancouver, B.C.
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This map forms one of a series of open file maps (B.C. RGS 18-20) released in 1989 by the British Columbia Geological Survey in co-operation with the Geological Survey of Canada.
 Open File RGS 18 consists of sample location maps at 1:100 000 and 1:250 000 scale, symbol and value maps for 25 elements in stream sediments and 3 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
 Libraries of the Geological Survey of Canada
 Map Library at the University of British Columbia, Vancouver
 for purchase at:
 Maps B.C.
 525 Superior Street
 Victoria, B.C.
 V8V 1X2
 (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

**VANADIUM (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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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

104K	104J	104I
104F	104G	104H
104C	104B	104A

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**VANADIUM (ppm)
 STREAM SEDIMENTS**
 B.C. RGS 19
 GSC OPEN FILE 1646
 104F - SUMDIUM / 104G - TELEGRAPH CREEK
 NORTHWESTERN BRITISH COLUMBIA, 1987

LEGEND
 STRATIFIED ROCKS

QUATERNARY

RECENT
 Rvb (BSL 64*) Basalts, andesite, ash

PLEISTOCENE AND RECENT
 Os (TLL 64) Surficial clastic sediments and glacial deposits
 Qvc (CLVB 64) Olivine basalt

TERTIARY AND QUATERNARY

PLIOCENE AND PLEISTOCENE
 PpLm (BSL 63) LEVEL MOUNTAIN GROUP: basalt
 PpVb (BTRT 63) Basalt, rhyolite, olivine, basalt
 PpVt (PRLT 63) Rhyolite, trachyte, tuff

TERTIARY

EOCENE
 Esl (PRLT 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 (BSL 49) Basalt, pillow lava, tuff, volcanoclastic rocks
 Jp (SHLE 49) Shale
 Jt (COLM 49) TAKWAHONI: conglomerate, grit, greywacke
 Jcg (CGOK 49) Conglomerate, grit, greywacke

TRIASSIC
 Ulp (PLLT 45) Phyllite, argillite, siltstone, greywacke, limestone
 Uls (SLSN 45) Siltstone, chert, sandstone, tuff
 Usv (ANDV 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks
 Ustj (VLRK 45) STUJINI GROUP: undifferentiated volcanic and sedimentary rocks
 Uvt (ANB 45) Andesite, basalt
 Uvd (ANDS 45) Andesite, pyroclastic rocks, gneiss

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

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

MISSISSIPPIAN
 Mct (LMTF 34) Limestone, tuff, chert

PLUTONIC ROCKS

CRETACEOUS AND TERTIARY
 KtTp (FLSP 56) Felsite, felspar porphyry
 Ktqm (QTMZ 56) Quartz monzonite
 Kty (LSYN 56) Leucocratic syenite

JURASSIC AND CRETACEOUS
 JKgd (GRDR 51) Granodiorite
 JKqd (QRZD 51) Quartz diorite
 Jkd (DORT 51) Diorite

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

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

PERMIAN AND TRIASSIC
 Ptkb (LUMFC 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., Bess, D.A. and Chulihai, A.V. (compilers) (1979) Iskut River, Geological Survey of Canada, Map 1415A.
 *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 - SUMDIUM and M 104G - TELEGRAPH CREEK; assessment reports refer to Assessment Report Index Map, AR 104F - SUMDIUM and AR 104G - TELEGRAPH CREEK; bedrock geological mapping refer to Index of Bedrock Mapping, 1987, for mineral and placer claim maps contact the Ministry of Energy, Mines and Petroleum Resources, Mineral Titles Branch, Victoria, for current editions and status.

**VANADIUM (ppm)
 STREAM SEDIMENTS**
 B.C. RGS 19
 GSC OPEN FILE 1646
 104F - SUMDIUM / 104G - TELEGRAPH CREEK
 NORTHWESTERN BRITISH COLUMBIA, 1987