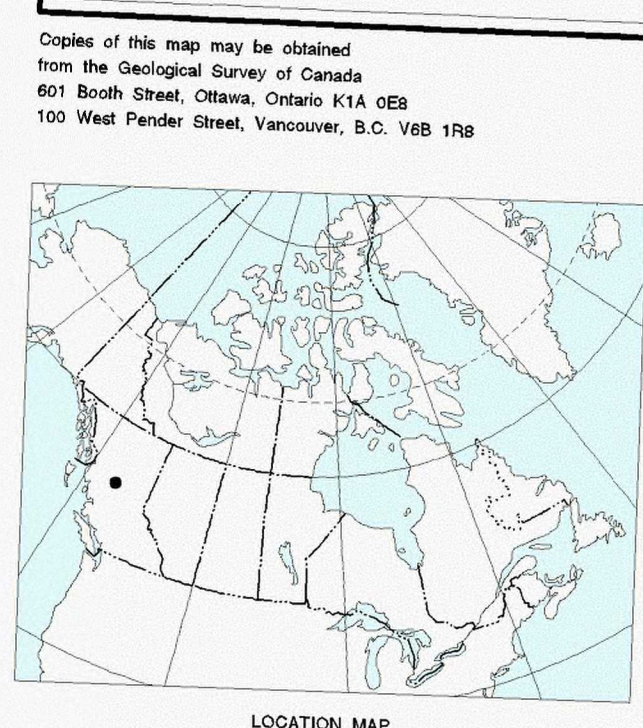


LEGEND

- O** ORGANIC DEPOSITS: Peat and muck; occurs as poorly drained terrain such as bogs and swamps; organic deposits too small to be shown at this scale occur within other units (e.g. within abandoned meander channels); average thickness of 3-4 m; maximum thickness 10 m
- ALLUVIAL (FLUVIAL) DEPOSITS:** Deposits of streams and rivers, composed of well stratified to massive silt, sand and gravel with minor clay; occurs on flat surfaces above or near level; prone to periodic flooding
- Ap** Floodplain sediments: sand and silt, stratified to massive, commonly including discontinuous organic materials; in many places underlain by coarser gravel; occurs on flat surfaces above or near level; prone to periodic flooding
- Al** Terrace sediments: gravel overlain by a veneer of sand and silt; mostly well stratified; underlies level surfaces well above river level
- A^d** Deltaic sediments: sand and gravel (generally greater than 2 m) underlain by silt and clay; occurs at or below present lake levels at the mouth of a stream
- At** Fan sediments: gravel, sand, silt, and clay; poorly sorted; occurs as a fan-shaped form at the toe of slopes and where streams debouch onto flat valley floor; composition is dependent on source materials
- Ax** Sand, silt, and gravel with minor organic materials; consists of varying amounts of Ap, At, and Al; occurs in areas of erosion and alluvium in areas of steep slopes
- COLLUVIAL DEPOSITS:** Debris and rubble, material accumulated from various mass wasting processes varying from slope wash to rock falls. Composition is dependent on source materials
- Cv** Colluvium veneer: root fragments in a matrix of sand, silt and clay, poorly sorted; discontinuous; commonly 1-2 m thick; mostly mapped on steep slopes (> 40°) of secondary valleys
- Ch** Landslide material: sediments of various texture (dependent on source materials) with hummocky topography present at the foot of and on slopes affected by landslides; thickness generally greater than 3 m; predominantly in unconsolidated sediments; commonly but not uniquely found in terrain underlain by glacioluvial sediments
- Cs** Colluvium on steep slopes (> 40°): cover of rock fragments in a matrix of sand, silt and clay; occurs largely in unconsolidated sediments; slopes show abundant signs of erosion such as gullies; 2-3 m thick
- Ca** Colluvial apron and talus: rubble accumulations at the bottom of steep slopes (> 40°); includes high proportions of local bedrock fragments; commonly thicker than 5 m
- GLACIAL LAKE DEPOSITS:** sand, silt, and clay deposited in a glacial lake; well stratified; commonly occurs as rhythmites with rare debris flow interbeds; sand is more abundant at elevation close to the former lake rim; collars are common on adjacent units; contacts between subunits are gradational
- Lv** Veneer of glacial lake sediments: discontinuous cover of silt with minor sand and clay; includes shallow water deposits; i.e., well sorted sand near limits of former lakes; average thickness of 1 m
- Lb** Blanket of glacial lake sediments: continuous cover of silt with minor sand and clay; not thick enough to completely mask the underlying topography; generally 2-4 m thick
- GLACIOFLUVIAL DEPOSITS:** Sand and gravel deposited by glacial meltwater. Ekers are too small to show as separate units at this scale of mapping and are indicated by symbol
- Gt** Glacioluvial terrace sediments: sand and gravel, stratified to massive, occurs as terraces interpreted as glacioluvial in origin because of their elevation above greater than 10 m
- Gh** Ice contact deposits: coarse sand and gravel, deposited in contact with glacier ice; surface is hummocky and may include kame depressions; locally can include Gt; generally greater than 3 m thick
- Gb** Blanket of glacioluvial sediments: sand and gravel, stratified to massive; sediment cover is continuous but fails to obscure the underlying morphology; greater than 2 m thick
- TILL:** deposits of glacial till; consists of rock fragments of all sizes in a sandy to clayey matrix, but usually sandy silt; includes colluvium on steeply sloping terrain and isolated outcrops, and small inclusions of glacioluvial sediments especially in valley bottoms and where the silt is used (blanket) meltwater channels (e.g. Tv-d)
- Tm** Thick till, hummocky: till cover which masks the underlying topography; surface expression generally undulating with hummock features common; bedrock outcrops are absent; sediment thickness greater than 3 m
- Tb** Till blanket: till with scarce bedrock outcrops; more than 1 m thick
- Tv** Till veneer: till with abundant bedrock outcrops; less than 1 m thick; Tv-d - area marked by abundant meltwater channels
- BEDROCK:** Sedimentary, metamorphic, volcanic, and intrusive rocks of Precambrian through Cenozoic age
- R** Bedrock: mostly outcrop but with local thin patches of fill and colluvium which rarely exceeds 2 m
- Rs** Steep bedrock: outcrop on steeply sloping terrain, patchy cover of till, colluvium and local bedrock fragments increase in abundance downslope; includes alpine areas typified with scree and cirques

SYMBOLS

- Geological boundary
- Avalanche track
- Debris flow track
- Landslide scar (large)
- Abandoned meander channel, large
- Abandoned meander channel, small (flow direction known, unknown)
- Kettle hole (small)
- Esker (direction of former water flow known, unknown)
- Lateral moraine (unmarked on glacier side)
- Drumlin (direction of flow known, unknown)
- Crag and tail
- Glacial fluting
- Glacial esker (direction of ice flow known, unknown)
- Cirque, (fresh)
- Arête (fresh)
- Bedrock situation
- Outcrop
- Gravel pit
- Field observation and sampling site
- Field observation site



Surficial geology compilation by A. Plouffe, Geological Survey of Canada

Digital map compilation by A. Moore, Geological Survey of Canada

Digital cartography by R.L. Allard, Geological Survey of Canada

Electrostatic plot produced by the Geological Survey of Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

OPEN FILE 3183 SURFICIAL GEOLOGY CUNNINGHAM LAKE BRITISH COLUMBIA

Scale 1:100 000 - Echelle 1/100 000

Transverse Mercator Projection
NAD 1983, Zone 12N
Datum: Canadian Geodetic Survey
Datum: Canadian Geodetic Survey
Datum: Canadian Geodetic Survey

Digital base map assembled and modified by the Geological Survey of Canada from digital bases compiled by the Surveys, Mapping and Remote Sensing Branch

Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Natural Resources Canada, Ottawa, Ontario, K1A 0E9

Mean magnetic declination 1985, 23° 49' East, decreasing 9.0° annually. Readings vary from 23° 34' E in the SE corner to 24° 03' E in the NW corner of the map

Elevations in feet above mean sea level

93 JME	93 JNW	93 JNE	93 JNW
93 JSE	93 JSW	93 JSE	93 JSW
OF 3071	OF 2842	OF 2846	OF 2846
93 LNE	93 LNW	93 LNE	93 LNW
OF 3183	OF 3183	OF 3182	OF 3182
93 LSE	93 LSW	93 LSE	93 LSW
OF 3184	OF 3184	OF 3182	OF 3182
93 EME	93 ENW	93 ENE	93 ESW

NATIONAL TOPOGRAPIHIC SYSTEM REFERENCE AND INDEX TO ADDITIONAL GEOLOGICAL SURVEY OF CANADA MAPS



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