



LEGEND

NOTE: In areas where the surficial cover forms a complex pattern, the area is coloured according to the dominant unit and labelled in descending order of cover (e.g. O-T). Where buried aggregates (sand and gravel - commonly associated with Gt or Glt surficial units) are known, or suspected, areas are coloured according to the overlying unit and labelled in the following manner: Lx/Gt.

QUATERNARY SURFICIAL DEPOSITS

NONGLACIAL ENVIRONMENTS

O ORGANIC DEPOSITS: Fine peat, 1 to 3 m thick on average; peat derived from sedges and partially decayed strata in a subarctic environment; the plant material is in various stages of decomposition; generally occurs as flat, wet terrain (swamps) over poorly drained substrates; forms relatively open peatlands.

COLLUVIAL DEPOSITS: diamicton and rubble; poorly sorted, massive to stratified debris deposited by direct, gravity-induced movement; composition dependent on source material.

- Ch** Landslide and slump debris: diamicton, generally 1 to 10 m thick, but may exceed 10 m near the toe of large landslides; hummocky topography; includes active and inactive landslides.
- Cv** Colluvial veneer: thin and discontinuous cover of slumped and/or soliflucted material <1 m thick; overlies bedrock or till.
- C** Undifferentiated colluvial deposits: undivided landslide debris, colluvial veneer and talus.

ALLUVIAL DEPOSITS: sorted gravel, sand, minor silt, and organic detritus deposited by streams; commonly stratified.

- Ap** Floodplain deposits: sorted gravel, sand, silt, and organic detritus >1 m thick; forming active floodplains close to river level with meander channels and scroll marks.
- At** Fluvial terrace deposits: >2 m thick; forming inactive terraces above modern floodplain; represents a potential aggregate source.
- Al** Alluvial fan deposits: poorly sorted gravel and sand >1 m thick; occur where a stream issues from a narrow valley onto a plain or valley floor.
- A** Undifferentiated fluvial deposits: undivided floodplain, fluvial terrace, and alluvial fan deposits.
- L¹** LACUSTRINE DEPOSITS: sand, silt and minor clay deposited in a former lake; >1 m thick; occasionally overlain by organic deposits; exposed by recent fluctuations in lake levels.

POSTGLACIAL OR LATE WISCONSINAN PROGLACIAL AND GLACIAL ENVIRONMENTS

GLACIOLACUSTRINE DEPOSITS: fine sand, silt, and clay, with minor debris-flow diamicton, deposited in glacially-dammed lakes in valleys and along the margin of the retreating Cordilleran glaciers; usually overlain by organic deposits in lowlands.

- Lb** Glaciolacustrine blanket: >1 m thick; obscures topography of underlying units.
- GLACIOFLUVIAL DEPOSITS:** well to poorly stratified sand and gravel; minor diamicton; deposited behind, at, or in front of the ice margin by glacial meltwater; represents a potential aggregate source.
- Gp** Proglacial outwash deposits: generally 1 to 5 m thick; forming planar surfaces; generally marks valley floors and surfaces adjacent to glacial meltwater channel margins.
- Gt** Outwash terrace deposits: 1 to 10 m thick; generally associated with meltwater channels and canyons; generally forming flat paired terraces perched above fluvial deposits.
- Gth** Ice-contact stratified deposits: poorly-sorted sand and gravel with minor diamicton; 1 to >10 m thick; deposited in contact with the retreating glacier; forming hummocky topography resulting from melting of underlying ice.
- Glr** Esker deposits: 1 to >20 m thick; forming ridges.
- Glt** Kame terrace deposits: 1 to 10 m thick; generally forming flat unpaired terraces on valley slopes.

TILL: diamicton deposited directly by Cordilleran glaciers; sandy to clayey matrix with striated clasts of various lithologies.

- Tb** Till blanket: >1 m thick, continuous till cover forming undulating topography that locally obscures underlying units.
- Ts** Streamlined and fluted till: >1 m thick, till surface marked by streamlined landforms including flutings and drumlins.
- Th** Hummocky till: >1 m thick; hummocky to rolling till surface including discontinuous pockets of gravel.
- Tr** Ridged till deposits: >1 m thick, moraines or crevasse fillings forming a ridged topography.
- Tv** Till veneer: <1 m thick, discontinuous till cover, underlying bedrock topography is discernible.

PRE-QUATERNARY

R Bedrock outcrop: continuous bedrock outcrop; can include pockets of till or colluvium rarely exceeding 2 m thickness.

- Geological boundary (defined, assumed)
- Major landslide
- Slump direction
- Meltwater channel, large (paleoflow direction unknown)
- Meltwater channel or outwash channel, small (paleoflow direction known, unknown)
- Escarpment
- Esker
- Drumlin (ice flow direction known, unknown)
- Crag-and-tail
- Fluting
- Striation sites (direction known, unknown)(coincide with some station sites)
- Gravel pit
- Quarry
- Field observation site (with and without samples)



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 SURFICIAL GEOLOGY
CRISS CREEK
 BRITISH COLUMBIA
 Scale 1:50 000/Échelle 1/50 000
 Universal Transverse Mercator Projection
 North American Datum 1983
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Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada
 Digital base map provided by the BC Watershed Atlas (1:50 000, TRIM base)
 Shaded relief image prepared by DDD, derived from the digital elevation model supplied by L. Robertson, based on SRTM imagery
 Illumination: azimuth 315°, altitude 45°, vertical factor 0.6
 Magnetic declination 2009, 17°48' E, decreasing 13.8' annually
 Elevations in metres above mean sea level

92 P16	92 P17	92 P18
OF5939	OF5939	OF5939
92 P19	92 P20	92 P21
OF5933	OF5932	OF5932
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