

GEOPROCESS FILE - SUMMARY REPORT

STEWART RIVER MAP AREA - NTS 115O (E1/2) and 115N

The GEOPROCESS file is a compilation of information on geological processes and terrain hazards, including mass movement processes, permafrost, flooding, landslides, erosion and soil creep, and other geological processes.

This report includes a brief discussion of the scope and limitations of the GEOPROCESS file, a list of references, and a list of references to the GEOPROCESS file.

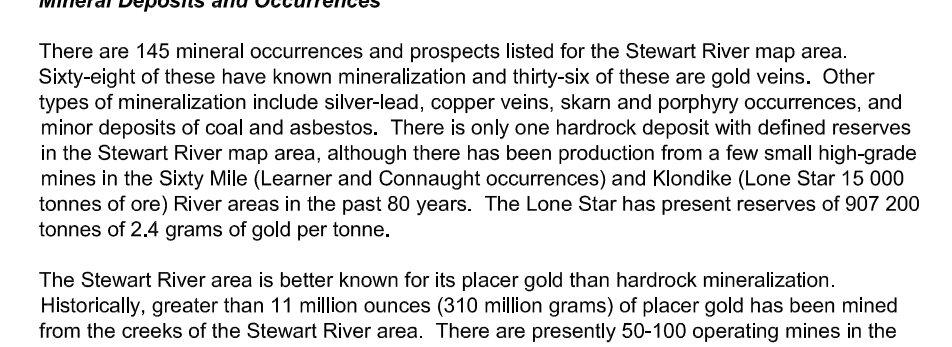
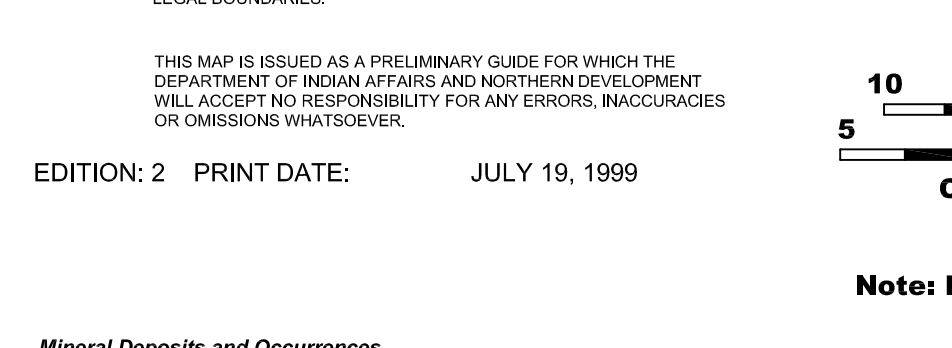
The GEOPROCESS file map units were drafted on the 1:250,000 topographic base maps through interpretation from bedrock geology maps, surficial geology maps and in some cases terrain hazard maps at various scales.

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STEWART RIVER YUKON TERRITORY 115 O & N (E1/2)



Contour interval 500 feet. Elevation in feet above mean sea level. North American Datum 1983 Transverse Mercator Projection.

Note: Elevation intervals change from west to east, but remain a multiple of 500 feet.

Notes: This map was prepared by the compilation of data from various sources. It is not intended to be used for legal purposes.

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MINERAL DEPOSITS AND OCCURRENCE

There are 145 mineral occurrences and prospects listed for the Stewart River map area. Sixty-eight of these have known mineralization and thirty-six of these are gold veins.

Fluvial Hazards: No data on flooding hazards are available for this map area. However, hazard levels are probably very similar to those in the Mayo-Dawson map area.

References: Stewart River Map Area - NTS 115O (E1/2) and 115N. Most of the following references should be available for viewing in the DMSD library on the third floor of the Egan Sells building in Whitehorse.

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TERMINAL HAZARDS

The main source of information for the terrain hazards map is derived from surficial geology and soil survey maps. The Geological Survey of Canada published Geoscience Canada in Whitehorse provided the information.

Seismicity: Six earthquake events have been recorded in the Stewart River map area. Five of these were between magnitude 2 and 3 and one was between magnitude 3 and 4.

Mass Movement Processes: No information is available for this area to help estimate the probability of initiation or failure of landslides. However, the following assumptions can be made.

Permafrost: Although there is no information available for this particular map area, conditions are likely very similar to the Dawson map area (Geological Survey of Canada, 1992).

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LEGEND

Table with 2 columns: LEGEND TERRAIN HAZARDS and ASSOCIATED RISK LEVELS, COMMENTS. Includes symbols for Mass Movement Processes, Permafrost, and Flood Processes.

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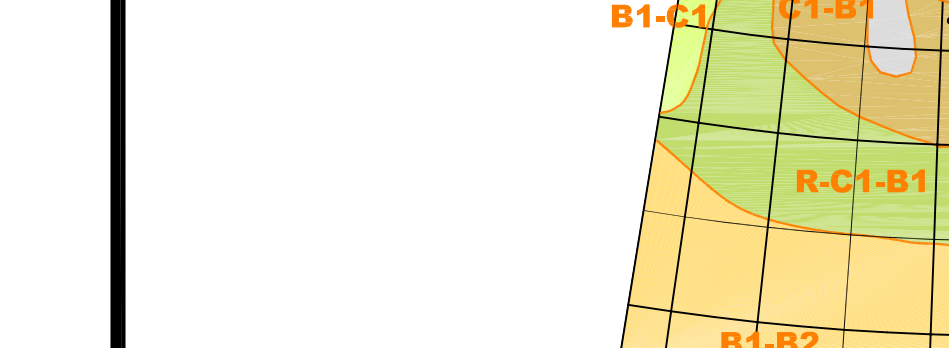
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Table with 2 columns: LEGEND QUATERNARY VOLCANISM and ASSOCIATED RISK LEVELS, COMMENTS. Includes symbols for Volcanic ash and tephra.

Table with 2 columns: LEGEND OTHER FEATURES and ASSOCIATED RISK LEVELS, COMMENTS. Includes symbols for Roads, Streams, and Marshes.

NOTE: Where areas have more than one identified process or hazard, the colour of the encompassing polygon is assigned based on a hierarchical scheme relating to the severity of the hazard.

Tectonic Belts and Terranes



Accreted Terranes: Yukon-Tanana, Sibley Mountain, Sibley, Quaternary, Cache Creek, Niding, Wopmay-Kikley, Alexander, Wrangellia, Chugach, and metamorphic undivided.

Glacial Limits: Unglaciated Terrain (Undifferentiated nonglacial deposits) and Glaciated Terrain (Hungry Creek or Buckland glacial deposits, McConnell glacial deposits, Reid glacial deposits, pre-Reid glacial deposits, Icefield glaciers).

Distribution of Recent Soils: Soil types include B1, B1-C1, C1-C3, B1-C2, B1-C3, B1-C2, B1-C3, B1-C2, B1-C3, B1-C2, B1-C3, B1-C2, B1-C3.

Permafrost: Continuous, Widespread, and Scattered permafrost zones are shown on the map.

Location Map: Shows the location of the Stewart River area within Yukon Territory and its position relative to neighboring provinces and territories.

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Exploration and Geological Services Division

Indian and Northern Affairs Canada

Yukon GEOPROCESS File

Geological Processes and Terrain Hazards of Stewart River 115O & N (E1/2)

by Doherty, R.A., Mougout, C.M. and vanRenden, J.A.

Copies of this map may be obtained from Geoscience and Information Sales, c/o Whitehorse Mining Recorder, Indian and Northern Affairs Canada, Room 102, 300 Main Street, Whitehorse, Yukon Y1A 2S5.

Recommended citation: Doherty, R.A., Mougout, C.M. and vanRenden, J.A., 1994. Yukon GEOPROCESS File (200), Geological Processes and Terrain Hazards of Stewart River 115O and 115N (E1/2). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, 1:250,000 scale.