



GEOPROCESS FILE - SUMMARY REPORT

YUKON TERRITORY 116B & 116C (E12)

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INTRODUCTION

The GEOPROCESS File is a compilation of information and knowledge on geological processes and terrain hazards, including mass movement processes, permafrost, flooding risks, landslides, and seismicity. This information is intended to provide a basis for more detailed information on how the maps were developed, which other GEOPROCESS File maps were available, and how the information was derived. Specific information should be obtained from the detailed description of the terrain hazard maps within the GEOPROCESS File maps. This information is intended to provide a basis for more detailed information on how the maps were developed, which other GEOPROCESS File maps were available, and how the information was derived.

Geological Processes and Terrain Hazard Compilation Maps

The GEOPROCESS File maps were drafted on the 1:250,000 topographic base maps. The GEOPROCESS File maps were drafted on the 1:250,000 topographic base maps. The GEOPROCESS File maps were drafted on the 1:250,000 topographic base maps.

Background Geology Summary

The background geology of the Dawson area is described in the Dawson area geology map. The background geology of the Dawson area is described in the Dawson area geology map. The background geology of the Dawson area is described in the Dawson area geology map.

Permafrost

The permafrost conditions in the Dawson area are described in the Dawson area permafrost map. The permafrost conditions in the Dawson area are described in the Dawson area permafrost map. The permafrost conditions in the Dawson area are described in the Dawson area permafrost map.

Seismicity

The seismicity in the Dawson area is described in the Dawson area seismicity map. The seismicity in the Dawson area is described in the Dawson area seismicity map. The seismicity in the Dawson area is described in the Dawson area seismicity map.

Mass Movement Processes

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Permafrost

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LEGEND

LEGEND TERRAIN HAZARDS		LEGEND GEOLOGICAL PROCESSES	
MAP SYMBOL	DESCRIPTION	MAP SYMBOL	DESCRIPTION
[Symbol]	Mass Movement Processes	[Symbol]	Associated Risk Levels/Comments
[Symbol]	Snow-avalanched	[Symbol]	High
[Symbol]	Extremely slow to moderate rates of failure in soil and bedrock, including soil creep, rock creep, earthflow, soil or rock slumps, debris or rock slides	[Symbol]	Low to Intermediate
[Symbol]	Moderate to extremely rapid rates of failure in soil and bedrock (1.5 m to >15 m), including rock slumps, debris slides, rock falls, debris flows, debris torrents, debris avalanches, rockfall rock-avalanche	[Symbol]	High
[Symbol]	Arctic, Alpine and Periglacial Processes	[Symbol]	Low
[Symbol]	Permafrost present	[Symbol]	Low to Intermediate
[Symbol]	Thermokarst present	[Symbol]	Low to Intermediate
[Symbol]	Softfaced	[Symbol]	Low to Intermediate
[Symbol]	Grouped, cryoturbated, subflooded, riveted	[Symbol]	Low to Intermediate
[Symbol]	Fluvial Processes	[Symbol]	Intermediate to High
[Symbol]	Braked, unstable channels, risk of flooding	[Symbol]	Low to Intermediate
[Symbol]	Fluvial erosion, deposition and low risk of flooding	[Symbol]	Intermediate to High
[Symbol]	Anastomosing	[Symbol]	Intermediate to High
[Symbol]	Flooded regularly	[Symbol]	Intermediate to High
[Symbol]	Miscellaneous Erosion Processes	[Symbol]	Intermediate
[Symbol]	Karst	[Symbol]	Intermediate to High
[Symbol]	Piping	[Symbol]	Low to Intermediate
[Symbol]	Gulch	[Symbol]	Low to Intermediate
[Symbol]	On Site Symbols	[Symbol]	Risk Level
[Symbol]	Unit boundary (defined, approximate)	[Symbol]	High
[Symbol]	Erosional escarpment	[Symbol]	High
[Symbol]	Landslide escarpment	[Symbol]	High
[Symbol]	Landslide (includes source and runout areas)	[Symbol]	High
[Symbol]	Pyrg	[Symbol]	High
[Symbol]	Rock glacier	[Symbol]	High
[Symbol]	Spring or saline seep	[Symbol]	Low
[Symbol]	Observation of frozen soil or ground ice	[Symbol]	Low
[Symbol]	Rapid mass movements (debris torrents) with known point sources	[Symbol]	High
[Symbol]	Slow mass movement (earth flow) with landslide, escarpment source	[Symbol]	Intermediate to High
[Symbol]	LEGEND SEISMIC EVENTS	[Symbol]	MAGNITUDE REPRESENTATION
[Symbol]	<2.0	[Symbol]	4.0 to 4.999
[Symbol]	2.0 to 2.999	[Symbol]	5.0 to 5.999
[Symbol]	3.0 to 3.999	[Symbol]	>6.0
[Symbol]	LEGEND VOLCANISM	[Symbol]	OTHER FEATURES
[Symbol]	Unit shown is Late Tertiary or Quaternary debris basin (may be part of F. debris volcanic rocks)	[Symbol]	Roads
[Symbol]		[Symbol]	Lakes
[Symbol]		[Symbol]	Marsh

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. The relative order of severity is: Terrain Hazards (Mass Movement Processes then Fluvial Processes then Arctic, Alpine and Periglacial Processes) followed by Geological Processes.

