



Universal Transverse Mercator, Zone 8 (NAD83)

LEGEND

- SURFICIAL MATERIALS***
- ORGANIC DEPOSITS - peat and muck associated with wetlands. Deposits vary from fibric to humic, and are usually thinner than 0.5 m.
 - FLUVIAL - gravel, sand and silt associated with modern streams and rivers.
 - EOLIAN DEPOSITS - usually consists of fine sand with minor silt; landform surface is hummocky (dunes).
 - GLACIOLACUSTRINE DEPOSITS - usually consists of fine sand and silt with increasing clay content at depth and occasional sandy to gravelly pockets. Unit is frequently covered with several metres of glacioluvial outwash sand (not shown).
 - GLACIOLUVIAL DEPOSITS - usually consists of well graded sand and gravel, varies from deposit to deposit. It is common to find a silt and/or sand veneer over the gravelly sediment.
 - ICE CONTACT DEPOSITS - consists of heterogeneous mixture of sand, gravel with local deposits of silt. Highly variable composition. Landforms are pitted and very hummocky (same as kettle topography).
 - MORAINAL DEPOSITS (TILL) - usually consists of pebbly to bouldery gravel with a silty, sandy matrix. Clay content in matrix is low. Matrix at depth (greater than 1m) is usually rich in carbonates.
 - BEDROCK - variable. In some areas, the bedrock consists of altered granite (grus) that is similar to a poorly graded pebbly gravel with low matrix content.
 - ANTHROPOGENIC - quarries, rock dumps, mines or other surfaces modified by humans.

* General representation of dominant surficial materials in the top 5 to 15 metres. Veneers and discontinuous materials are not shown.

SYMBOLS

- 51 Bedrock well, approximate thickness of overburden
- <24 Deep well ending in overburden, approximate elevation of well bottom
- Kettle
- Gravel pit
- Mine, Quarry
- Escarpment
- Landslide headscarp (may not be active)

SOURCES OF INFORMATION

Data Compiled by Gartner Lee Limited, 2002.
References:
Cartography by F. Pearson, 2002.
Base map derived from: 1) 1:50,000 map sheets 105D/10, 11, 14 and 105D/15 of the National Topographic Series; and 2) 1:20,000 digital mapping of the City of Whitehorse prepared by Triton Mapping Co., (1996).
Surficial geology generalized and updated from Mougout GeoAnalysis and Agriculture and Agri-Foods Canada, 1996. Terrain, soil and wetland mapping. Prepared for the City of Whitehorse. 1:20,000 scale.



CITY OF WHITEHORSE
Engineering & Environmental Services



Indian and Northern
Affairs Canada
NORTHERN AFFAIRS PROGRAM
Water Resources



GOVERNMENT OF YUKON
Community Development Branch
Environmental Health Services

**PRELIMINARY HYDROGEOLOGICAL INVENTORY
OF THE CITY OF WHITEHORSE**

MAP 3
**SIMPLIFIED SURFICIAL GEOLOGY
AND
OVERBURDEN THICKNESS**

Scale: 1:50,000
1 cm is equivalent to 500 metres



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