

QUATERNARY
Q unconsolidated glacial, glaciofluvial, and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

OVERLAP ASSEMBLAGES
PALEOCENE
RUBY RANGE BATHOLITH (ca. 64-57 Ma):
PR fine to coarse-grained, salt and pepper, hornblende +/- biotite, quartz diorite, rare garnets; medium-grained, light grey to pinkish biotite +/- hornblende granodiorite; fine to medium-grained, beige to grey tonalite with distinctive smoky grey quartz; pinkish/grey, biotite granite; likely in part coeval with Rhyolite Creek volcanic/plutonic complex

LATE CRETACEOUS (?)
lKgd fine to coarse-grained, strongly foliated to massive hornblende, biotite granodiorite; white to beige weathered, salt and pepper fresh; garnets common

MID-CRETACEOUS (?)
mKgn fine to coarse-grained, strongly to weakly foliated hornblende, biotite, quartz-diorite to granodiorite orthogneiss

KLUANE SCHIST:
KK dark grey, brown to black weathered, dark grey to black fresh, fine-grained, biotite, quartz, feldspar schist; local feldspar porphyroblasts; blocky weathered appearance
Kkgn migmatitic paragneissic equivalents of Klwane Schist; medium to coarse-grained, dark grey to black weathered with orange to cream coloured leucocratic layers

TAKU TERRANE (?)
PERMIAN (?) TO TRIASSIC (?)
BEAR CREEK ASSEMBLAGE
PRBca light to dark green and black serpentinite, meta-dunite and meta-pyroxenites; strongly deformed; locally abundant asbestos
PRB strongly deformed and metamorphosed, mainly light to dark green and black basalt; lesser amounts of light grey/green andesite and dacite and dark grey to brown mudstone

YUKON-TANANA TERRANE
MISSISSIPPIAN (?) or PERMIAN (?)
MPgn medium to coarse-grained hornblende-biotite quartz-diorite and diorite orthogneiss; dark grey, black to salt and pepper colour; abundant garnets found locally

UPPER DEVONIAN AND OLDER
SNOWCAP ASSEMBLAGE:
PDscs polydeformed and metamorphosed dark grey to black biotite, amphibolite schist; minor garnets; locally contains, thin light to dark grey banded quartzite layers
PDsc light grey and cream weathered, fine to medium-grained calcisilicate schist; light grey to white, fine to medium-grained marble occurring as lenses and thick layers (up to several metres wide) within calcisilicate schist
PDsa medium-grained, dark and light grey banded gneiss with abundant garnets, interlayered with fine-grained dark green to black garnet amphibolite
PDsqg light to dark grey and brown weathered biotite, muscovite, quartz, garnet schist; locally abundant aluminosilicates (sillimanite, staurolite, kyanite); locally migmatitic

LEGEND EXPLANATION
PLUTONIC SUITES: grouping of plutonic rock units based on age, regional distribution and in some cases composition
LAYERED ROCK ASSEMBLAGES: regionally mappable units generally of Group or Formation rank

SYMBOLS

geologic contacts (defined, approximate).....

fault; movement not known (approximate, inferred).....

thrust fault (inferred).....

normal fault (approximate).....

folds (upright antiform, upright synform).....

(overturned antiform, overturned synform).....

foliation (dominant, late).....

elongation lineation.....

intersection lineation.....

crenulation lineation.....

fold axis (early, m-fold, s-fold, z-fold).....

dike.....

joint.....

fault.....

field station.....

limited-use road or trail.....

MINFILE Occurrences

Number	Name	Deposit Type	Commodity/Status
115A032	REX	Ultramafic-hosted asbestos	asbestos

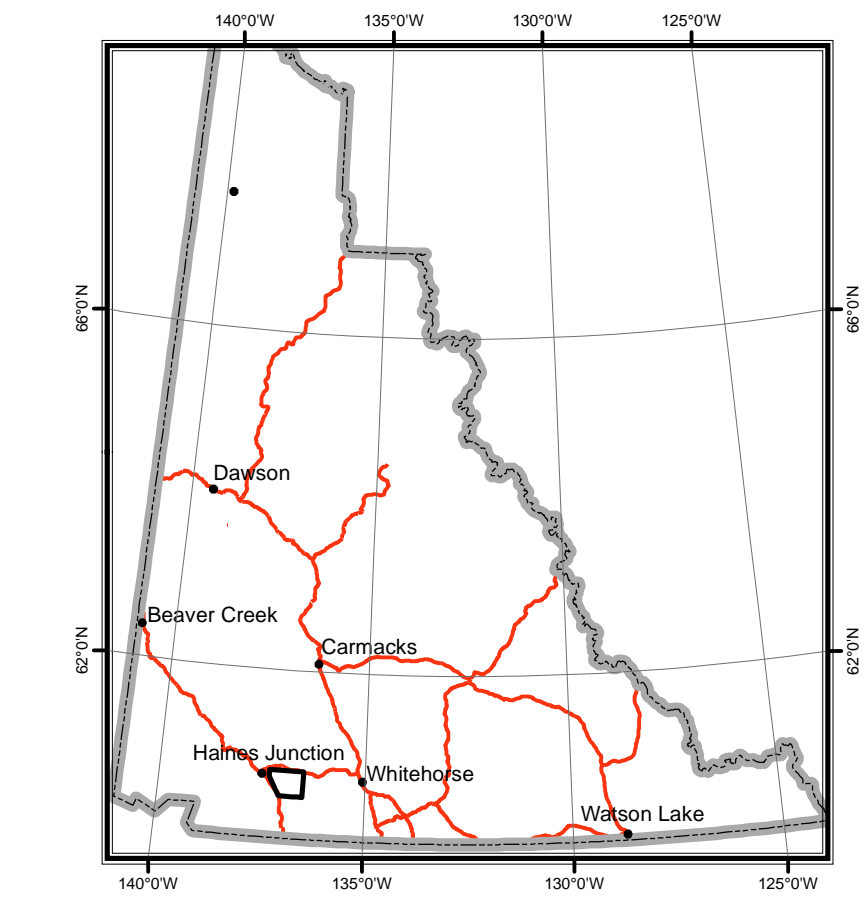
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Digital cartography and drafting by Steve Israel, Yukon Geological Survey.
 Any revisions or additional geological information known to the user would be welcomed by the Yukon Geological Survey.

Paper copies of this map may be purchased from the Yukon Geological Survey, Energy, Mines and Resources, Yukon Government, Room 102-300 Main St., Whitehorse, Yukon, Y1A 2B5.
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Yukon Geological Survey
 Energy, Mines and Resources
 Government of Yukon
 Open File 2013-17
Preliminary geological map of the Granite Lake area, parts of NTS 115A/10, 11, 14 and 15 (1:50 000 scale)
 by
 Steve Israel and Rachel Kim



1:00 000 scale topographic base data produced by CENTRE FOR TOPOGRAPHIC INFORMATION, NATURAL RESOURCES CANADA
 ONE THOUSAND METRE GRID
 Universal Transverse Mercator Projection
 North American Datum 1983
 Zone 8
 CONTOUR INTERVAL 100 Feet
 Elevations in feet above Mean Sea Level

