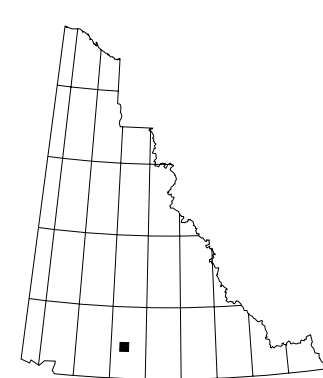
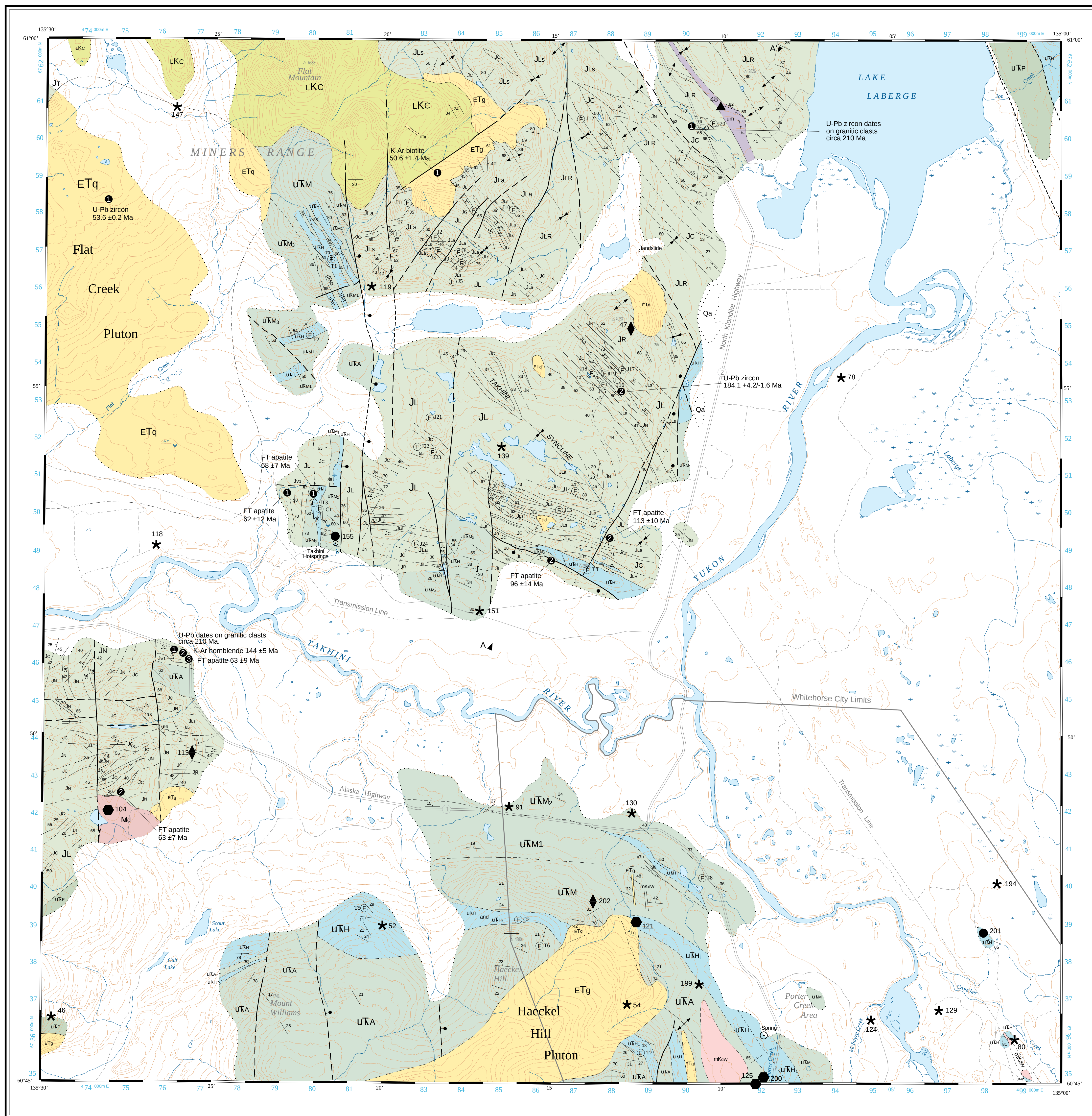
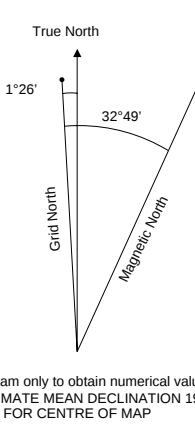




Topographic base provided by
Statistics Canada and the
Department of Energy and
Natural Resources
Copyright © 1997 by the Queen
in Right of Canada
ONE THOUSAND METRE
Universal Transverse Mercator Grid
ZONE 8

UPPER LABERGE
YUKON TERRITORY
SCALE 1:50 000

CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1987
Transverse Mercator Projection



105 D14 Templeman-Kluit 1984	105 D13 Hart Geoscience Map 1997-6	105 D12 Wheeler 1961
105 D13 Hart Geoscience Map 1997-6	105 D14 THIS MAP	105 D15 Hart and Hart Geoscience Map 1997-6
105 D12 Wheeler 1961	105 D11 Hart and Radloff 1991	105 D10 Wheeler 1961

QUATERNARY

- Q Unconsolidated silt, sand and gravel of glacial, fluvial, aeolian and lacustrine origins.
Qa Alkaline flats.

TERTIARY

LATE PALEOCENE

NISLING RANGE PLUTONIC SUITE

- ETq Orange and crumbly weathering recessive, locally microlitic, coarse and medium grained, smoky quartz biotite granite.
ETg Medium to coarse-grained hornblende-biotite granite and granodiorite.
ETd Resistant, dark grey, fine-grained hornblende quartz diorite and granodiorite.

TA'AN INTRUSIONS

- ETd Resistant, dark grey, fine-grained hornblende quartz diorite and granodiorite.

CRETACEOUS

LATE CRETACEOUS

CARMACKS GROUP

- LKc Dark purple-green and grey green, massive and thick bedded, well layered locally brecciated, augite- or plagioclase-phyric basalt flows, lithic tuff and ash flows.

MID CRETACEOUS

WHITEHORSE PLUTONIC SUITE

- mKw Grey weathering, medium-grained hornblende and biotite-hornblende granodiorite.

MESOZOIC

- Md Recessive, dark grey weathering, hornblende diorite.

JURASSIC

EARLY AND MIDDLE JURASSIC

LABERGE GROUP

- JL Undifferentiated Laberge Group sandstone, greywacke, argillite, siltstone arkose, conglomerate and hornfels.
JLs Mainly sandstone.
JLa Mainly argillite, siltstone, greywacke and hornfels.
Jlc Mainly conglomerate and pebbly sandstone.

TANGLEFOOT FORMATION

- Jt Dark tan and buff weathering, interbedded brown, chert-rich sandstone, black shale, grey chert pebble conglomerate and hornfels with coaly plant fragments.
Jc Resistant, brown-orange weathering, massive clast supported and less matrix supported, polymictic cobble conglomerate.

CONGLOMERATE FORMATION

- Jn Nordenskiöld Member: Blue, green and maroon, coarse and medium grained, massive, crystal-rich dacite tuff and arkosic greywacke.
Jr Brown to tan weathering, recessive, well and thin bedded siltstone, sandstone, greywacke, interbedded silt and sandstone couplets, and hornfels, with rare limestone beds.

RICHTHOFFEN FORMATION

- Jr Brown to tan weathering, recessive, well and thin bedded siltstone, sandstone, greywacke, interbedded silt and sandstone couplets, and hornfels, with rare limestone beds.

TRIASSIC

UPPER TRIASSIC

LEWIS RIVER GROUP

AKSALA FORMATION

- uKA Undifferentiated sedimentary rocks including in decreasing abundance: limy siltstone, siltstone, shale, sandstone and conglomerate locally with limestone. Difficult to distinguish from, and may include Laberge Group.
uKM Mandana Member: Undifferentiated maroon and green sandstone, mudstone, shale and tuff.
uKM1 Recessive, maroon mudstone and shale.
uKM2 Resistant, thick bedded, maroon sandstone.
uKM3 Resistant, finely laminated, thick bedded arkosic sandstone.
uKM4 Hancock Member: resistant, light grey weathering, massive to sparsely bioclastic limestone to densely fossiliferous.
uKM5 Recessive, dark grey weathering, massive and well bedded, locally fossiliferous carbonaceous limestone.

POVOAS FORMATION

- uKP Dark weathering, dark green to maroon, variably pillowed, volcanoclastic basalt flows.

AGE UNCERTAIN

- um Resistant weathering, strongly tectonized, serpentinite, and serpentine breccia.

SYMBOLS

- Limit of outcrop.....
Geological boundary (defined, approximate, assumed or covered).....
Fault (dot on downthrown side) (defined, approximate, assumed or covered).....
Lineament.....
Bedding (inclined, vertical, horizontal).....
Igneous flow banding (inclined, vertical).....
Pillow lavas.....
Flow contacts.....
Schistosity, gneissosity, foliation (inclined, vertical).....
Shear band.....
Lineation (mineral, stretching and rodding).....
Joints (inclined, vertical).....
Anticline, syncline.....
Minor fold axis.....
Cross-section line.....
Breccia.....
Isotopic age determinations.....
Details are in the accompanying Bulletin (Appendix 7).
Dicks et al. 1979 (FT-zircon tracks).....
Morrison et al. 1979.....
Fossil locality.....
Details are in the accompanying Bulletin (Appendix 1-3).
Jurassic macrofossil, T-Triassic macrofossil, C-Triassic conodont.....

Number	Name	Deposited type
046	Barr	★
047	Canot	▲
048	Elfie	▲
052	Hackel	▲
054	Tremar	▲
078	Expo	▲
080	Imp	▲
091	Allison	▲
104	Suits (King Lake)	▲
113	Middlet	▲
118	Charlie	▲
119	Kali	▲
121	Tennery	▲
124	Garbage Dump	▲
125	Rabbitsfoot	▲
129	Sewage	▲
130	Suturna	▲
139	Dry Bone	▲
147	Dupont	▲
151	Dust	▲
155	Tahini	▲
184	Cameo	▲
199	OJ	▲
200	Anacarda (Zircon)	▲
201	Rp-Rap	▲
202	Bee	▲

REFERENCES

- HART, C.J.R., and HUNT, J.A., 1997. Geology of Joe Mountain map area, southern Yukon, (NTS 105 D13). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Geoscience Map 1997-6, 1:50,000 scale.
HART, C.J.R., 1997. Geology of Thirty-seven Mile Creek map area, southern Yukon, (NTS 105 D13). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Geoscience Map 1997-4, 1:50,000 scale.
DICKIE, J.R., GRIFF, A.M., and DONELICK, R.A., 1992. Differential uplift across the Coast Plutonic Complex-Northern Sikina: Tertiary contact, Yukon, preliminary evidence from fission-track thermochronometry. In: Yukon Geology, Vol. 3, Exploration and Geological Services Division, Indian and Northern Affairs Canada, Yukon, p. 140-156.
HART, C.J.R. and RADLOFF, J.K., 1990. Geology of the Carcross, Fenwick Creek, Alligator Lake, Whitehorse and part of Robinson map areas (105 D12, 105 D13, 105 D14). Yukon, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1990-4, 1:13 p.
MORRISON, G.W., GODWIN, C.J. and ARMSTRONG, R.L., 1979. Interpretation of isotopic ages and R_p P_{app} initial ratios for plutonic rocks in the Whitehorse map area, Yukon. Canadian Journal of Earth Sciences, v. 16, p. 1989-1997.
TEMPELMAN-KLUIT, D.J., 1984. Maps of Laberge (105 D13-16). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Bulletin 8.
WHEELER, J.O., 1961. Whitehorse map-area, Yukon Territory. Geological Survey of Canada Memoir 312, 156 p.

RECOMMENDED CITATION

- HART, C.J.R., 1997. Geology of Upper Laberge map area, southern Yukon, (NTS 105 D14). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Geoscience Map 1997-5, 1:50,000 scale.
This map accompanies HART, C.J.R., 1997. A Transect Across Stikinia: Geology of the Northern Whitehorse Map Area (105 D13-16). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Bulletin 8.
Digital cartography and drafting by Will van Randen, Yukon Geology Program.
Any revisions or additional geological information known to the user would be welcomed by the Yukon Geology Program.
Copies of this map, the accompanying report and Yukon Minfile may be purchased from Geoscience Information and Sales, Exploration and Geological Services Division, Indian and Northern Affairs Canada, Room 102-300 Main St. Whitehorse, Yukon Y1A 2B5. PH: 867-667-3204 Fax: 867-667-3207.
Store this map in a dark area to prevent map colours from fading.
Map released November, 1997, subsequent revision dates are:

Indian and Northern Affairs Canada
Exploration and Geological Services Division
Yukon Region

Geoscience Map 1997-5
**Geology of Upper Laberge map area,
southern Yukon
(NTS 105 D14)**

by
C.J.R. Hart
Canada/Yukon Mineral Development Agreement
Geoscience Office