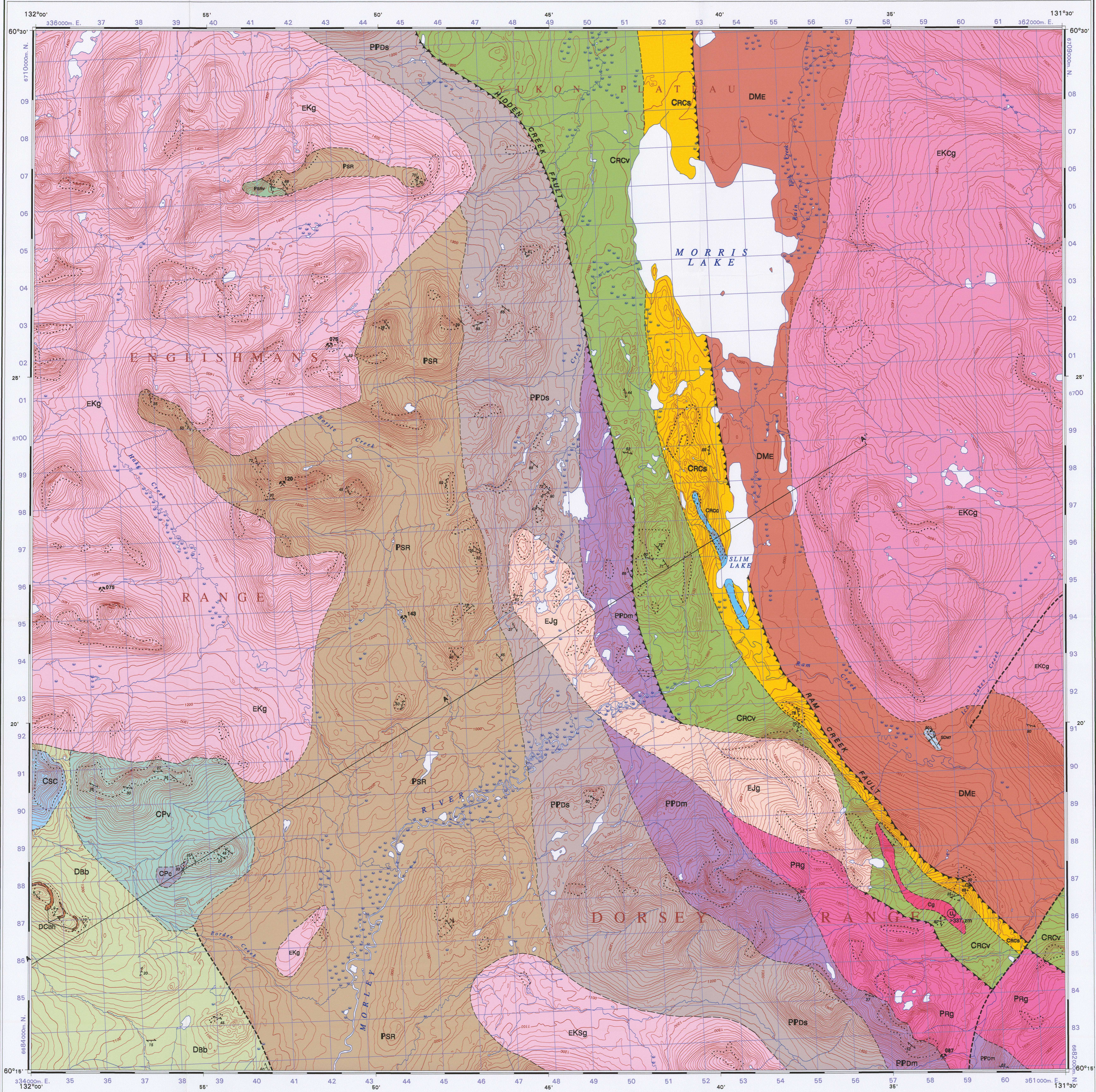


REFERENCES
Colpron, M. and the Yukon-Tanana Working Group. 2001. Ancient Pacific Margin: A synthesis on stratigraphic correlation of potential volcanogenic massive sulfide-hosting successions of Yukon-Tanana Terrane, northern British Columbia and Yukon, in Yukon Exploration and Geology 2000. Exploration and Geological Services Division, Indian and Northern Affairs Canada, p. 97-110.
Deklerk, R. (Compiler). 2002. Yukon MINFILE Database and Mineral Occurrence Map- 105B-Wolf Lake. Yukon Geological Survey (CD-ROM and 1:250 000 scale map).

NOTES
The map area has no roads, although old pack-horse trails are present in most major valleys. It lies within the traditional territory of the Ts'at'ine First Nation. There are site-specific land claims at the outlet of Slim Lake, and on the east side of Morris Lake.
PHYSIOGRAPHY
The map area is part of the Niainin Plateau (cf. Mulligan, 1963, p. 4-11). The granitic bedrock produces high rounded hills and slopes of frost-fractured boulders. The central part of the map area is underlain by metamorphic rocks that are exposed as knobs and spines. Large ice sheets from the south and east covered this area (Cassidy, 1982) as recently as 15,000 years ago.

UNFOLiated PLUTONIC ROCKS
Seagull batholith (ca 101 Ma, K-Ar; Melo et al., 1983; Mortenson, 1999) extends across the southern edge of the map area, and trends with Hales batholith to the northwest and likely connected to it at depth. Samples from this trend indicate an evolved magmatic with Th-rich mica and biotite characteristic (Liverton and Beetham, 2001).
The 350 km long Cassiar batholith reaches its northernmost limit in this map area. A belt from several hundred metres to a few kilometres wide along its western side is defined by both ductile and brittle fabrics. Interpreted as an intrusion during activity of the Cassiar Fault (Gabrielse, 1983; Driver, 1988) approximately 112 Ma (Mortenson, 1999).



Scale 1:50 000/Echelle 1/50 000
Universal Transverse Mercator Projection
North American Datum 1983
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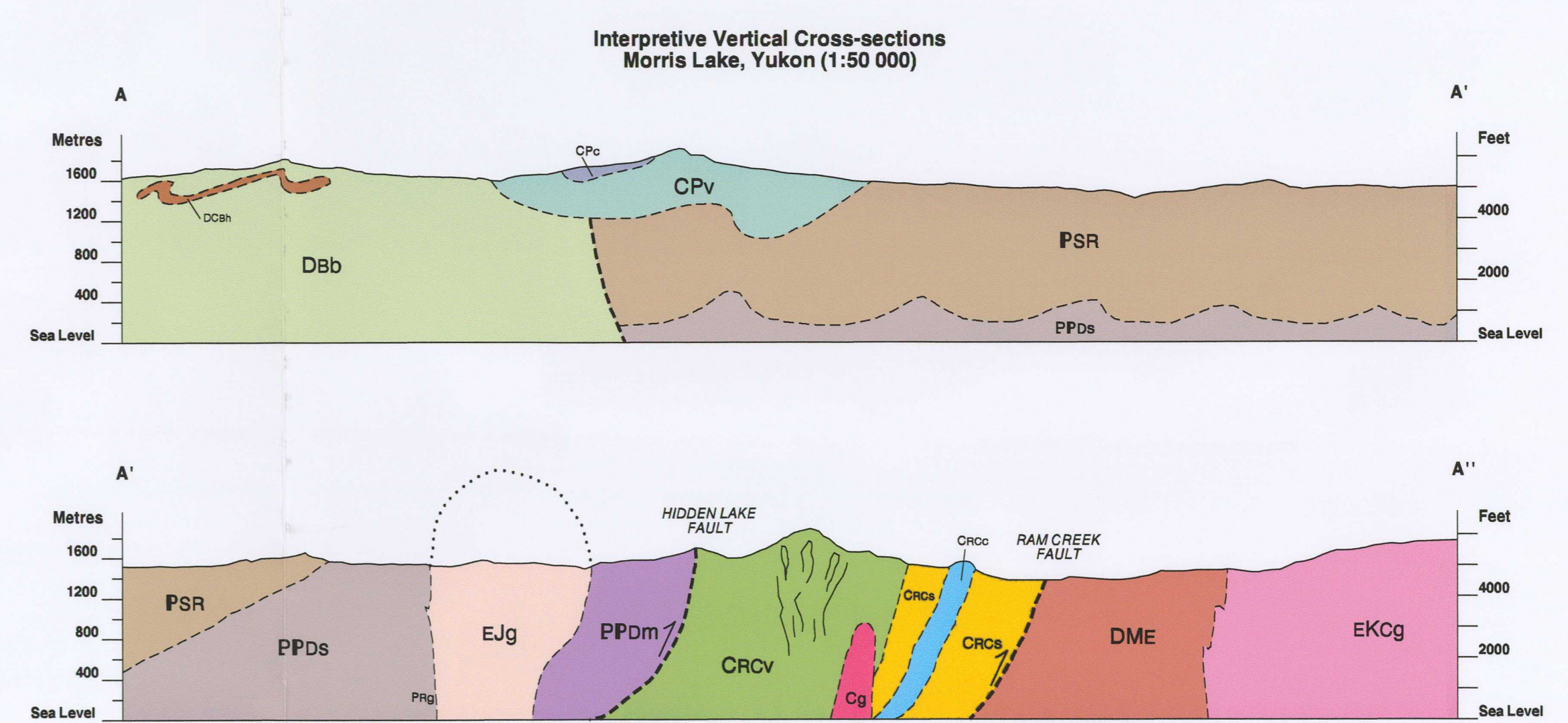
GSC OPEN FILE 4631
YGS OPEN FILE 2004-3
BEDROCK GEOLOGY
MORRIS LAKE
YUKON TERRITORY
Scale 1:50 000/Echelle 1/50 000
Projection: transverse universelle de Mercator
Système de référence géodésique nord-américain, 1983
© Sa Majesté la Reine du chef du Canada 2004

Digital base map from data compiled by Geomatics Canada, modified by the Geoscience Information Division
Universal Transverse Mercator Grid Zone 9
Mean magnetic declination 2003, 25°28' E, decreasing 18.0' annually.
Elevations in metres above mean sea level
Contour interval 20 metres

Mineral Occurrences 105B/5
Yukon MINFILE (Deklerk, 2003)
No. Name Minerals
105B 075 Hales unknown
105B 076 Mork unknown
105B 087 Mopra Cu, Mo porphyry
105B 120 Karuhini Sn skarn
105B 143 Convent volcanogenic

OVERLAP ASSEMBLAGES
LAYERED ROCKS
UPPER CARBONIFEROUS TO PERMIAN KILNITT GROUP
CPc Beige-weathering marble, locally foliated; rare chloritic interbeds
CPv Volcanic fragmental member: Undifferentiated meta-tuff and volcanic breccia of intermediate composition; minor chloritic meta-sandstone and meta-siltstone 'dust-tuffs'
CSc Smeek Creek Limestone: Thin to thick-bedded, light grey weathering, commonly bioclastic limestone and dolomitic marble; minor maroon to phyllite and bedded green chert.

LEGEND
OVERLAP ASSEMBLAGES
LAYERED ROCKS
UPPER CARBONIFEROUS TO PERMIAN KILNITT GROUP
SYN- AND POST-OROGENIC INTRUSIVE ROCKS
EARLY CRETACEOUS
EKG Biotite granite, granodiorite, leuco-quartz monzonite, alkaliite
EKsg Seagull Batholith
EKCg Cassiar Batholith: Granite, granodiorite, quartz monzonite, diorite
EJg Non-foliated, K-feldspar porphyritic granodiorite, monzonite, minor diorite, gabbro
EARLY JURASSIC
ANCESTRAL NORTH AMERICA CASSIAR TERRANE
LAYERED ROCKS
LOWER DEVONIAN TO LOWER MISSISSIPPIAN EARLY GROUP
DME Recessive, carbonaceous shale and slate, locally phyllitic
SILURIAN TO UPPER DEVONIAN
SDM McNamee Formation: Grey to black laminated and thin-bedded field limestone
SYMBOLS
Bedding: inclined, upright, overturned
Dominant foliation (transposition foliation; commonly parallel to compositional layering): inclined, vertical
igneous layering
Compositional layering
Crenulation layering
Elongation or mineral lineation
Intersection lineation, with vergence: M fold
Folds, with vergence: M fold
Cleavage
Jointing
LUPs: atcon data, age in Ma
Fossil locality
Geological contact: defined, approximate, assumed
Limit of outcrop
Normal fault: defined, approximate, inferred
Fault on upthrown side
Thrust fault: defined, approximate, inferred
Fault on downthrown side
Upright folds: antiform, synform
Overturned folds: antiform, synform
Cross-section line
Yukon MINFILE (105B) occurrence



OPEN FILE DOSSIER PUBLIC 4631
Yukon Geological Survey
Energy, Mines and Resources
Yukon Government
Open File 2004-3
Bedrock geology, Morris Lake (NTS 105B/5)
Yukon Territory
(1:50,000 scale)
by
C. Roots, J. Nelson and R. Stevens
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Recommended citation:
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