



- SYMBOLS**
- Mushing or swamp, with boundary.
 - Railway.
 - Electric power transmission line.
 - Minor road.
 - Major road, with provincial secondary road running.
 - Fencible, post-and-rail road.
 - County boundary, approximate location only.
 - Township boundary, approximate location only.
 - Glacial striae.
 - Small rock outcrop.
 - Boundary of rock outcrop.
 - Geological boundary, defined.
 - Geological boundary, approximate.
 - Geological boundary, assumed.
 - Horizontal bedding.
 - Strike and dip of bedding; direction of top unknown.
 - Strike and dip of bedding; trend and plunge of formation.
 - Strike and vertical dip of bedding; direction of top unknown.
 - Folded bedding, with dip.
 - Direction in which flow flows face as indicated by slope of pillow; combined with strike and dip.
 - Synclinal axis.
 - Anticlinal axis.
 - Direction of plunge of fold axis, crest line or trough line.
 - Strike and dip of schistosity.
 - Strike of vertical schistosity.
 - Strike and dip of gneissosity.
 - Strike of vertical gneissosity.
 - Horizontal gneissosity.
 - Strike and dip of gneissosity; trend of horizontal lineation.
 - Strike and dip of gneissosity; trend and plunge of lineation.
 - Strike of foliation, dip unknown.
 - Lineation, plunge known, plunge unknown.
 - Jointing, vertical.
 - Jointing, horizontal.
 - Drag folds. Arrow indicates direction of plunge.
 - Lineament or fault.
 - Building.
 - Test pit.
 - Quarry.
 - Trench.
 - Location of mining property. Refer to list of properties for details.
 - Mineral occurrence. Refer to mineral occurrence reference.

- LEGEND**
- CENOZOIC**
- RECENT AND PLEISTOCENE***
- Sand, gravel, clay, silt, etc.
- GREAT UNCONFORMITY**
- PALEOZOIC**
- ORDOVICIAN**
- 10a Limestone, dolomitic limestone, 10b Red argillaceous limestone and shale
10c Blue grit and arkose.
- GREAT UNCONFORMITY**
- PRECAMBRIAN**
- PLUTONIC ROCKS**
- GRANITIC ROCKS**
- 8L Leucogranite, leucogranite gneiss, pegmatite, microgranite (includes rocks of granodiorite and quartz monzonite composition).
8B Biotite granites: biotite granitic gneiss, biotite granitic schist, biotite granitic orthogneiss, biotite granitic orthogneiss.
8H Hornblende granites.
8P Hybrid granitic gneiss, microgranite, interbanded hybrid granitic gneiss and amphibolite, granitoid gneiss.
Granite pegmatite.
- INTRUSIVE CONTACT**
- SYENITIC ROCKS**
- 7L Leucosyenite, leucosyenite gneiss.
7b Biotite syenite, biotite syenite gneiss.
7h Hornblende syenite, hornblende syenite gneiss.
7P Hybrid syenite gneiss, (interbanded hybrid syenite and orthogneiss), syenitized gneiss, Syenite pegmatite.
- INTRUSIVE CONTACT**
- NEPHELINE SYENITE**
- 6L Leucocratic nepheline syenite.
6b Biotite nepheline syenite.
- INTRUSIVE CONTACT**
- BASIC INTRUSIVES****
- 4Am Ortho-amphibole: 4Am, perthite-amphibole; 4Dp, perthite-diorite; 4Dbs, perthite-basalt.
4G Gabro.
4H Hornblende.
4L Lamprophyre.
4M Magnetite, melanite.
4P Pyroxene, amphibole.
- INTRUSIVE CONTACT**
- METASEDIMENTARY AND VOLCANIC ROCKS**
- CALCAREOUS SEDIMENTS**
- 3 Limestone, dolomite, marble; 3a micritic limestone; 3b micritic limestone; 3c micritic limestone; 3d micritic limestone; 3e micritic limestone; 3f micritic limestone; 3g micritic limestone; 3h micritic limestone; 3i micritic limestone; 3j micritic limestone; 3k micritic limestone; 3l micritic limestone; 3m micritic limestone; 3n micritic limestone; 3o micritic limestone; 3p micritic limestone; 3q micritic limestone; 3r micritic limestone; 3s micritic limestone; 3t micritic limestone; 3u micritic limestone; 3v micritic limestone; 3w micritic limestone; 3x micritic limestone; 3y micritic limestone; 3z micritic limestone.
- NON-CALCAREOUS SEDIMENTS****
- 2A Para-amphibolite, amphibolite schist, hornblende-plagioclase gneiss and schist; 2B biotite amphibolite; 2C hornblende amphibolite; 2D hornblende amphibolite; 2E hornblende amphibolite; 2F hornblende amphibolite; 2G hornblende amphibolite; 2H hornblende amphibolite; 2I hornblende amphibolite; 2J hornblende amphibolite; 2K hornblende amphibolite; 2L hornblende amphibolite; 2M hornblende amphibolite; 2N hornblende amphibolite; 2O hornblende amphibolite; 2P hornblende amphibolite; 2Q hornblende amphibolite; 2R hornblende amphibolite; 2S hornblende amphibolite; 2T hornblende amphibolite; 2U hornblende amphibolite; 2V hornblende amphibolite; 2W hornblende amphibolite; 2X hornblende amphibolite; 2Y hornblende amphibolite; 2Z hornblende amphibolite.
- VOLCANIC ROCKS**
- 1Am Amphibolite, amphibolite schist, gneiss, pillow lava.
1Ap Agglomerate.
- Stippled areas of granitic and syenitic rocks include many sedimentary bands and much relict sedimentary material.**
- *These deposits are represented by the lighter colored and uncoloured parts on the map.
**May be of more than one age.
***Possibly including some volcanic sediments and volcanic amphibolites.
- The heavier colours on the map indicate rock outcrops, and areas of outcrop. The lighter colours indicate the inferred extension of formations beneath drift.
- Magnetic declination is about 11° West but varies locally.
- SOURCES OF INFORMATION**
- Base map derived from maps of the Forest Resources Inventory, Ontario Department of Lands and Forests, with additional information by D. F. Hewitt.
- Geology by D. F. Hewitt and assistants, 1968 and 1967.
- MINERAL OCCURRENCES**
- REFERENCE**
- Cor Corundum
Fe Magnetite, limonite
Mica Mica
Ne Nepheline
Pb Lead
- LIST OF PROPERTIES**
- 1 American Nepheline Ltd.
2 International Minerals and Chemical Corporation (Canada) Ltd.

Map No. 1960e
METHUEN TOWNSHIP
 COUNTY OF PETERBOROUGH, ONTARIO

