



LEGEND

PRECAMBRIAN-PALEOPROTEROZOIC

INTRUSIVE ROCKS

G	Granite; pink, medium to coarse grained, equigranular; massive to weakly foliated up to 25 percent quartz; 20 percent microcline; less than 1 percent biotite; 1 percent magnetite
T	Tonalite; medium grey to light grey, fine to medium grained, equigranular; massive to strongly foliated; up to 20 percent quartz; 15 to 20 percent biotite; hornblende; amphibole; epidote; titanite; 1 to 2 percent magnetite; 1 to 2 percent pyrite; 1 to 2 percent arsenopyrite; 1 to 2 percent arsenic sulfide
Gd	Gneiss; light grey, medium to coarse grained, weakly to strongly foliated up to 20 percent quartz; 10 to 20 percent biotite and hornblende; 10 to 20 percent amphibole; 1 to 2 percent magnetite
Tc	Mafic dikes, granoblastic, basaltic, and gabbro of the Crow Island intrusive complex; light grey to dark grey, fine to medium grained, massive to strongly foliated and granitic; locally migmatitic; 15 to 20 percent biotite; hornblende; amphibole; epidote; titanite; 1 to 2 percent magnetite; 1 to 2 percent pyrite; 1 to 2 percent arsenopyrite; 1 to 2 percent arsenic sulfide

INTERMEDIATE TO ULTRAMAFIC INTRUSIVE ROCKS

D	Diorite; medium grey, medium to coarse grained, massive to strongly foliated or foliated 20 to 25 percent hornblende; up to 5 percent quartz; 10 to 15 percent biotite; 1 to 2 percent magnetite; 1 to 2 percent pyrite; 1 to 2 percent arsenopyrite; 1 to 2 percent arsenic sulfide
Ga	Gabbro; dark grey to greenish black, medium to coarse grained, inequigranular; mylonite and commonly hornblende porphyroblastic; up to 20 percent amphibole; 15 to 20 percent hornblende; 1 to 2 percent magnetite
U	Ultramafic rock; various green, greenish black, to yellowish green, fine to coarse grained, massive to mylonitic, homogeneous to well laminated; actinolite hornblende; actinolite; amphibole; amphibole; garnet; magnetite
As	Actinolite actinolite amphibole gneiss; fine to medium grained, massive to well foliated in part with up to 1 cm diameter weathered out pits (after olive T2 with locally abundant with hornblende bands and veins); locally with amphibole to actinolite bands; hornblende; actinolite; amphibole; garnet; magnetite; 10 to 15 percent amphibole; 10 to 15 percent actinolite; 10 to 15 percent hornblende; 10 to 15 percent magnetite; 10 to 15 percent pyrite; 10 to 15 percent arsenopyrite; 10 to 15 percent arsenic sulfide
Ua	Ultramafic rock; various green, greenish black, to yellowish green, fine to coarse grained, massive to mylonitic, homogeneous to well laminated; actinolite hornblende; actinolite; amphibole; amphibole; garnet; magnetite

SUPRACRUSTAL ROCKS

Ar	Meta-arkose; pink, fine to medium grained, massive to moderately foliated; granoblastic; finely to coarsely bedded; locally with trough cross-bedding and conglomerate lag deposits; up to 50 percent K-feldspar; 5 to 10 percent biotite; 10 to 20 percent quartz; 10 to 20 percent magnetite; 10 to 20 percent amphibole
Pa	Meta-psammite; light grey to light pinkish grey, medium grained, granoblastic, moderately to well foliated; fine to medium bedded; igneous to 10 to 20 percent quartz; 10 to 20 percent magnetite; 10 to 20 percent amphibole; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide
Pcg	Pelitic meta-conglomerate; light to dark grey, poorly sorted, matrix supported with strongly elongated pebbles; to coarse grained; matrix composed of volcanic, plutonic, and sedimentary origin; matrix fine to medium grained; 10 to 20 percent quartz; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent amphibole; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide

BURNWOOD GROUP

Bp	Meta-basalt; amphibole, light grey, medium to coarse grained, with alternating pelitic and psammite layers; coarse grained; hornblende; actinolite; amphibole; epidote; titanite; 10 to 20 percent quartz; 10 to 20 percent magnetite; 10 to 20 percent biotite; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide
Ba	Basalt derived from Bp

MILTON ISLAND METASEDIMENTARY ASSEMBLAGE

Mps	Psammite; light grey to light pinkish grey, medium grained, granoblastic, moderately to well foliated; fine to medium bedded; igneous to 10 to 20 percent quartz; 10 to 20 percent magnetite; 10 to 20 percent amphibole; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide
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LEVESQUE BAY ASSEMBLAGE

Lm	Limestone; the to medium grained, heterogeneous, locally with light green calc-alkaline matrix and quartz, locally with garnet porphyroblasts or pyrope; locally with magnetite; 10 to 20 percent quartz; 10 to 20 percent magnetite; 10 to 20 percent biotite; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide
Lts	Ferrous psammite; pink reddish brown, rusty on weathered surfaces, fine to medium grained, well foliated, heterogeneous, to 20 percent magnetite; 10 to 20 percent quartz; 10 to 20 percent biotite; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide
Lca	Calc-alkaline gneiss; medium to coarse grained, heterogeneous, intercalated with grey metamorphic psammite, with epidote, plagioclase, quartz, garnet, amphibole; general quartz, with accessory titanite
Lp	Metapsammite and metapsammite; grey, well bedded and garnet, fine to medium grained, locally with amphibole, intercalated with calc-alkaline gneiss
Lqf	Quartzite; light grey to light pinkish grey, medium to coarse grained, locally with magnetite, locally with biotite, muscovite, hornblende, hornblende; calc-alkaline matrix; 10 to 20 percent quartz; 10 to 20 percent magnetite; 10 to 20 percent biotite; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide
Lgn	Intermediate psammite; tonalitic composition, migmatitic, well foliated, locally with amphibole and orthopyroxene; hornblende; amphibole; quartz; biotite; hornblende

CENTRAL METAVOLCANIC BELT

Metapsammite rocks

Wp	Metapsammite; pink, medium grey, fine to medium grained, granoblastic, well bedded, poorly layered; up to 20 percent quartz; 10 to 20 percent magnetite; 10 to 20 percent biotite; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide
Wts	Ferrous psammite; pink reddish brown, rusty on weathered surfaces, fine to medium grained, well foliated, heterogeneous, to 20 percent magnetite; 10 to 20 percent quartz; 10 to 20 percent biotite; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide

Altered volcanogenic rocks

Avc	Hornblende and actinolite hornblende gneiss; light grey, dark to rusty brown, fine to medium grained, well foliated, to 20 percent quartz; 10 to 20 percent magnetite; 10 to 20 percent biotite; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide
Ava	Calc-alkaline gneiss; medium to coarse grained, heterogeneous, locally with amphibole and quartz, commonly with garnet; amphibole; actinolite; amphibole; quartz; 10 to 20 percent quartz; 10 to 20 percent magnetite; 10 to 20 percent biotite; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide

Metavolcanic rocks

Fv	Felsic volcanic rock; light grey to light greenish grey, very fine to the grained, thin bedded; to massive, medium grained; locally with quartzite and/or calc-alkaline matrix; contains less than 10 percent biotite; hornblende; amphibole; epidote; titanite; 10 to 20 percent quartz; 10 to 20 percent magnetite; 10 to 20 percent biotite; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide
Iv	Igneous volcanic rock; medium grey to medium green, fine to medium grained, moderately foliated or mylonitic, massive to layered; hornblende porphyroblastic; contains 10 to 20 percent biotite; 10 to 20 percent quartz; 10 to 20 percent magnetite; 10 to 20 percent biotite; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide
Mv	Metavolcanic rock; greenish black to black, fine to medium grained, strongly foliated; mylonitic, homogeneous to bedded; hornblende porphyroblastic; commonly interbedded with epidote and calc-alkaline matrix; contains up to 20 percent hornblende and actinolite; amphibole; amphibole; quartz; 10 to 20 percent quartz; 10 to 20 percent magnetite; 10 to 20 percent biotite; 10 to 20 percent hornblende; 10 to 20 percent biotite; 10 to 20 percent magnetite; 10 to 20 percent pyrite; 10 to 20 percent arsenopyrite; 10 to 20 percent arsenic sulfide

Area where pyroclastics is predominant

Geological context defined, assumed, inferred

Outcrop examined	.....
Site and dip of bedding: top unknown	.....
Site and dip of bed: (bedding) locally, generally: (bedding, vertical)	.....
Site and dip of bed: (bedding) inferred	.....
Site and dip of bed: (bedding) 1st generation, 2nd generation	.....
Site and dip of erosion cleavage	.....
Plunge of undulating linear fabric: 1st generation	.....
Trend and plunge of shearing (shear): 1st generation, 2nd generation	.....
Trend and plunge of fold axis: 1st generation: a-NNE, a-NNE, on-fold	.....
Trend and plunge of U-tilt: 1st generation, 2nd generation, undeformed	.....
Thrust fault (defined, inferred)	.....
Mineral occurrence: graphitic, cordierite, anthophyllite, pyrochroite, pyrite, arsenopyrite, arsenic sulfide
Line of mapping

MILTON ISLAND AREA

Scale 1:50 000 (scale 1:50 000)



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REFERENCES

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Any reliance or additional geological information known to the user would be welcomed by the Geological Survey of Canada.

Digital base map data compiled by Geomatics Canada, and modified by the Geoscience Information Division.

Magnetic declination 2000, 11°15' E, decreasing 3.1° annually.

Elevations in feet above mean sea level.

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