

LEGEND

PROTEROZOIC

A'gbm

Gabbro dykes (Mackenzie swarm); not shown on the map

A'bl

Biotite lamprophyre dykes (not shown on the map)

A'gf

Granite, massive to weakly cleaved, pink, equigranular toporphyritic; in part fluorite-bearing, and contains chalcopyrite and specularite on Fairway Island

ARCHEAN AND/OR EARLY PROTEROZOIC

A'gq

Quartz diorite to granite plutons; massive to weakly foliated centres, and well foliated migmatitic margin

A'gm

Biotite-muscovite leucogranite, in part contains xenocrystic garnets; intrudes layered gneiss and paragneiss (units Agn and As)

A'gb

Gabbro: massive to weakly foliated, coarse grained by pink; locally cut pegmatite dykes

A'gp

Granite - magnetite bearing, porphyritic, mylonitized margins

HANBURY ISLAND SHEAR ZONE (HISZ)

A'his

Protoliths: granulite, tonolitic gneiss, paragneiss, gabbro, anorthositic, gabbro pyroxenite, and granitoids

ARCHEAN

Ag

Megacrystic (K-feldspar) granite; coarse grained, well foliated

Amv

Amphibolite; minor metavolcanic rocks, and garnet-biotite schist

As

Garnet + biotite +/- staurolite +/- kyanite +/- sillimanite +/- muscovite paragneiss; metamorphosed quartz-magnetite banded iron formation, amphibolite; contain small metagabbro intrusions, and migmatitic gneiss

Agn

Layered to banded hornblende-biotite (grey) orthogneiss, migmatite quartz-biotite; schist includes minor proportions of metamorphosed iron formation, garnet + biotite + sillimanite paragneiss, and two-pyroxene granulite (mostly northeast of Hanbury Island); contains xenoliths of metamafic rocks (garnet amphibolite, pyroxenite), in part and rafts of magnetite-rich coronite gabbro; cut by pegmatite, in part lamprophyre and diabase dykes, and quartz syenite plugs

Agrn

Granulite suite (granitoid to mafic composition), in part includes minor proportions of layered anorthosite and gabbro; intruded by several generations of gabbro, lamprophyre, and granite

NOTE: Relative ages of units for the most part are uncertain and no chronological order is implied.

Rock outcrop ×

Lithological boundary (approximate) ————

Regional Foliation (generation unknown, 1st, 2nd) 30 40 60 ↘

Axial Plane (F2) 40 ↘

Intersection Lineation 90 ↘

Mineral stretching Lineation 35 ↘

Fold Axis (F2, F3) 40 20 ↘

Fold style (U-fold, S-fold, Z-fold) 10 20 34 ↘

Fault (approximate) ————

Thrust fault (approximate) ————

Minor Fault (sense unknown) 35 ↘

Shear Zone (sense unknown, dextral, sinistral) 10 70 14 ↘

Joint, Vein and Dyke (pegmatite) 15 60 25 ↘

Trace of axial plane (antiform, synform) ————

Slicken Striae 30 ↘

Zircon age (Ga) 2.61 ♦

Mineral occurrence Gt ●