

LEGEND

Q unconsolidated alluvium, colluvium, lacustrine and glacial deposits

POST-THRUSTING INTRUSIVE ROCKS

EARLY CRETACEOUS

K_g fine- to medium-grained equigranular biotite-muscovite granite

EARLY JURASSIC

J_g medium-grained equigranular hornblende-biotite granite

CLEAVER LAKE THRUST SHEET

INTRUSIVE ROCKS

EARLY MISSISSIPPIAN

SIMPSON RANGE PLUTONIC SUITE

MS_g generally unfoliated biotite-hornblende granite and quartz monzonite; locally faulted, chloritized and hematized

LATE DEVONIAN TO EARLY MISSISSIPPIAN

DM_{mi} grey, massive medium-grained gabbro and lesser dark green pyroxenite

DM_{un} brown-weathering, dark green to black, variably serpentinized ultramafic rock; gabbro and pyroxenite locally present.

CLEAVER LAKE THRUST

MONEY CREEK THRUST SHEET

INTRUSIVE ROCKS

EARLY MISSISSIPPIAN

Simpson Range Plutonic Suite

MS_g weakly foliated to unfoliated, medium-grained, equigranular biotite-hornblende granite to granodiorite

LAYERED ROCKS

LOWER PERMIAN

Money Creek formation

MP_{cc} dark grey phyllite with lesser brown decimetre-scale graded beds of quartz-feldspathic sandstone

UNCONFORMITY

UPPER MISSISSIPPIAN TO LOWER PERMIAN

Whitefish limestone

MP_w green to white chlorite-muscovite-quartz phyllite of intermediate and lesser felsic compositions; locally quartz and feldspar augen present

UNCONFORMITY

MISSISSIPPIAN

Tuchitua River formation

MTR pale to medium green muscovite-chlorite phyllite or schist (intermediate meta-volcanic rock) with lesser tan to white muscovite-quartz phyllite or schist (felsic metavolcanic rock)

UNCONFORMITY

INTRUSIVE ROCKS

LATE DEVONIAN TO EARLY MISSISSIPPIAN

Simpson Range Plutonic Suite

DM_{sg} weakly to strongly foliated, biotite-hornblende granite to quartz monzonite; locally potassium feldspar megacrystic augen gneiss

DM_{spg} weakly to strongly foliated quartz-feldspar augen schist (meta-porphyr)

UPPER DEVONIAN

Waters Creek Formation

DWC siliceous muscovite-quartz schist or phyllite (felsic metavolcanic rock) and lesser chloritic schist or phyllite (intermediate to mafic metavolcanic rock) intercalated with carbonaceous phyllite; green, white and salmon massive siliceous rock (meta-chert?) at top.

DWC_{mi} chlorite-actinolite schist (mafic metavolcanic rock)

DWC_g quartzite and quartz-pebble meta-conglomerate interbedded with lesser carbonaceous phyllite; minor marble

DWC_{cp} carbonaceous phyllite or schist

UPPER DEVONIAN AND OLDER?

North River formation

DNR interbedded tan- to brown-weathering biotite-muscovite-feldspar quartz psammitic schist and quartz-biotite-muscovite metapelite schist; thin intervals of marble and calcareous-schist, not mappable at 1:50 000-scale, occur locally

SYMBOLS

geological contact (defined, approximate)

fault or vein-fault, displacement unknown (approximate)

thrust fault (approximate, teeth on hanging wall)

normal fault (approximate, dot on downthrown side)

strike-slip fault (approximate)

limit of outcrop

limit of mapping

isotopic age determination sample location (mineral codes: bi = biotite, hb = hornblende, mo = monazite, mu = muscovite, il = titanite, wt = whole rock, gr = zircon)

total sample (number denotes entry number in legend fossil table)

bedding

foliation

MINFILE Pb-Zn (Y₄₀, Y₄₁, Y₄₂, Y₄₃, Y₄₄, Y₄₅, Y₄₆, Y₄₇, Y₄₈, Y₄₉, Y₅₀, Y₅₁, Y₅₂, Y₅₃, Y₅₄, Y₅₅, Y₅₆, Y₅₇, Y₅₈, Y₅₉, Y₆₀, Y₆₁, Y₆₂, Y₆₃, Y₆₄, Y₆₅, Y₆₆, Y₆₇, Y₆₈, Y₆₉, Y₇₀, Y₇₁, Y₇₂, Y₇₃, Y₇₄, Y₇₅, Y₇₆, Y₇₇, Y₇₈, Y₇₉, Y₈₀, Y₈₁, Y₈₂, Y₈₃, Y₈₄, Y₈₅, Y₈₆, Y₈₇, Y₈₈, Y₈₉, Y₉₀, Y₉₁, Y₉₂, Y₉₃, Y₉₄, Y₉₅, Y₉₆, Y₉₇, Y₉₈, Y₉₉, Y₁₀₀, Y₁₀₁, Y₁₀₂, Y₁₀₃, Y₁₀₄, Y₁₀₅, Y₁₀₆, Y₁₀₇, Y₁₀₈, Y₁₀₉, Y₁₁₀, Y₁₁₁, Y₁₁₂, Y₁₁₃, Y₁₁₄, Y₁₁₅, Y₁₁₆, Y₁₁₇, Y₁₁₈, Y₁₁₉, Y₁₂₀, Y₁₂₁, Y₁₂₂, Y₁₂₃, Y₁₂₄, Y₁₂₅, Y₁₂₆, Y₁₂₇, Y₁₂₈, Y₁₂₉, Y₁₃₀, Y₁₃₁, Y₁₃₂, Y₁₃₃, Y₁₃₄, Y₁₃₅, Y₁₃₆, Y₁₃₇, Y₁₃₈, Y₁₃₉, Y₁₄₀, Y₁₄₁, Y₁₄₂, Y₁₄₃, Y₁₄₄, Y₁₄₅, Y₁₄₆, Y₁₄₇, Y₁₄₈, Y₁₄₉, Y₁₅₀, Y₁₅₁, Y₁₅₂, Y₁₅₃, Y₁₅₄, Y₁₅₅, Y₁₅₆, Y₁₅₇, Y₁₅₈, Y₁₅₉, Y₁₆₀, Y₁₆₁, Y₁₆₂, Y₁₆₃, Y₁₆₄, Y₁₆₅, Y₁₆₆, Y₁₆₇, Y₁₆₈, Y₁₆₉, Y₁₇₀, Y₁₇₁, Y₁₇₂, Y₁₇₃, Y₁₇₄, Y₁₇₅, Y₁₇₆, Y₁₇₇, Y₁₇₈, Y₁₇₉, Y₁₈₀, Y₁₈₁, Y₁₈₂, Y₁₈₃, Y₁₈₄, Y₁₈₅, Y₁₈₆, Y₁₈₇, Y₁₈₈, Y₁₈₉, Y₁₉₀, Y₁₉₁, Y₁₉₂, Y₁₉₃, Y₁₉₄, Y₁₉₅, Y₁₉₆, Y₁₉₇, Y₁₉₈, Y₁₉₉, Y₂₀₀, Y₂₀₁, Y₂₀₂, Y₂₀₃, Y₂₀₄, Y₂₀₅, Y₂₀₆, Y₂₀₇, Y₂₀₈, Y₂₀₉, Y₂₁₀, Y₂₁₁, Y₂₁₂, Y₂₁₃, 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Y₈₇₈, Y₈₇₉, Y₈₈₀, Y₈₈₁, Y₈₈₂, Y₈₈₃, Y₈₈₄, Y₈₈₅, Y₈₈₆, Y₈₈₇, Y₈₈₈, Y₈₈₉, Y₈₉₀, Y₈₉₁, Y₈₉₂, Y₈₉₃, Y₈₉₄, Y₈₉₅, Y₈₉₆, Y₈₉₇, Y₈₉₈, Y₈₉₉, Y₉₀₀, Y₉₀₁, Y₉₀₂, Y₉₀₃, Y₉₀₄, Y₉₀₅, Y₉₀₆, Y₉₀₇, Y₉₀₈, Y₉₀₉, Y₉₁₀, Y₉₁₁, Y₉₁₂, Y₉₁₃, Y₉₁₄, Y₉₁₅, Y₉₁₆, Y₉₁₇, Y₉₁₈, Y₉₁₉, Y₉₂₀, Y₉₂₁, Y₉₂₂, Y₉₂₃, Y₉₂₄, Y₉₂₅, Y₉₂₆, Y₉₂₇, Y₉₂₈, Y₉₂₉, Y₉₃₀, Y₉₃₁, Y₉₃₂, Y₉₃₃, Y₉₃₄, Y₉₃₅, Y₉₃₆, Y₉₃₇, Y₉₃₈, Y₉₃₉, Y₉₄₀, Y₉₄₁, Y₉₄₂, Y₉₄₃, Y₉₄₄, Y₉₄₅, Y₉₄₆, Y₉₄₇, Y₉₄₈, Y₉₄₉, Y₉₅₀, Y₉₅₁, Y₉₅₂, Y₉₅₃, Y₉₅₄, Y₉₅₅, Y₉₅₆, Y₉₅₇, Y₉₅₈, Y₉₅₉, Y₉₆₀, Y₉₆₁, Y₉₆₂, Y₉₆₃, Y₉₆₄, Y₉₆₅, Y₉₆₆, Y₉₆₇, Y₉₆₈, Y₉₆₉, Y₉₇₀, Y₉₇₁, Y₉₇₂, Y₉₇₃, Y₉₇₄, Y₉₇₅, Y₉₇₆, Y₉₇₇, Y₉₇₈, Y₉₇₉, Y₉₈₀, Y₉₈₁, Y₉₈₂, Y