



SYMBOLS

geological contact (defined, approximate, assumed).....

fault or vein-fault, displacement unknown (defined, approximate, assumed).....

strat fault (defined, approximate, assumed, teeth on hanging wall).....

normal fault (defined, approximate, assumed, dot on downthrown side).....

strike-slip fault (defined, approximate, assumed).....

fold surface axial trace (upright anticline, syncline, overturned anticline, syncline).....

metamorphic boundary (symbol on higher grade side).....

bedding (tops not known).....

foliation (one tick indicates earliest phase of deformation, two or more ticks indicate subsequent phases of deformation).....

foliation (phase of deformation unknown).....

injection line arrow indicates surface phase of deformation, two or more arrows indicate subsequent phases of deformation).....

joint.....

igneous compositional banding (defined, approximate).....

igneous mineral lineation.....

fault plane orientation, shear band (C-bands) orientation.....

shear band plane of flattening (S bands).....

mineral lineation/folding associated with shear bands.....

apparent dip of measured bedding, foliation (in cross-section).....

limit of outcrop, subcrop.....

projection to surface of mineralized volume.....

limit of mapping.....

isotopic age determination sample location and age includes radiometric age, 2 sigma error, and sample number.....

fossil sample, includes sample reference number.....

barren fossil sample, includes sample reference number.....

geochronological sample whole rock with major oxides, minor and trace elements, includes assay number and reference.....

survey control station with station name and elevation (in metres).....

diamond drill hole collar (overburden depth/total depth) in metres.....

rotary drill hole collar (overburden depth/total depth) in metres.....

field station.....

trench.....

line of cross-section.....

primary road.....

secondary road, trail, out-line.....

LEGEND

INTRUSIVE ROCKS

EOCENE

quartz-feldspar porphyry

Edp white-weathering, aphanitic to fine-grained, locally flow-banded quartz-feldspar porphyry; commonly contains phenocrysts of smoky grey quartz, biotite and white feldspar

CRETACEOUS

granite to granodiorite undifferentiated

UKVg grey, resistant, generally medium- to coarse-grained, locally megacrystic, undifferentiated Tay River plutonic suite or Anvil plutonic suite granite to granodiorite

Tay River plutonic suite

MKTRg Orcah phase - biotite + hornblende granite to granodiorite

Anvil plutonic suite

UKAg Mount Mye phase - biotite-muscovite granite; locally foliated

PERMIAN?

gabbro, harzburgite, serpentinite

Pg mafic and ultramafic intrusive rocks; locally extensively sheared and serpentinized
 P₁ - serpentinite; P₂ - harzburgite; P₃ - gabbro

ORDOVICIAN-SILURIAN

gabbro

OSg dark green, locally magnetic, coarse- to fine-grained, massive to foliated gabbro; subvolcanic dykes and sills to Menzies Creek basalts (OSMCb); enclosing phyllites locally display thin contact metamorphic aureoles

pyroxenite

OSpx dark green, locally magnetic, coarse-grained, massive to foliated, variably serpentinized pyroxenite; subvolcanic dykes and sills to Menzies Creek basalts (OSMCb); enclosing phyllites locally display thin contact metamorphic aureoles

LAYERED ROCKS

YUKON-TANANA TERRANE

TRIASSIC

Faro Peak formation

TRPp resistant, massive, polymictic conglomerate; clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite

TRPm dark grey carbonaceous, locally calcareous shale or siltstone interbedded with medium to dark grey, fine-grained limestone

TRPss interbedded cherty argillite, chert, sandstone and mafic gneiss or conglomerate

TRPb massive, dark green, fine-grained to aphanitic basalt; may be equivalent to Anvil Range Group basalt

PALEOZOIC

metasedimentary and metavolcanic rocks

PRq medium to dark grey, locally gabbro, muscovite meta-quartzite to quartzose schist; contains bands of greywacke, gabbro, phyllite; rarely contains eclogite lenses

PRl grey to tan, massive limestone or dolostone

PRp medium to dark olive green, chloritic phyllite to amphibolite; locally displays relief nonconformal igneous textures; locally includes ultramafic rocks and/or eclogite (P₁-P₃)

PRog felsic orthogneiss or paragneiss

SLIDE MOUNTAIN TERRANE

PERMIAN

Campbell Range formation

PCR epidotized, locally hematitic, dark green, resistant, massive, poorly foliated basalt or brecciated basalt; contains lesser grey, green, red and black bedded chert, and pale green epivolcaniclastic sandstone or conglomerate

EARLY CARBONIFEROUS-PERMIAN

Rose Mountain formation

CRPm pale green, tan-weathering, bedded phyllite chert interbedded with lesser maroon chert and argillite, especially near top of unit; also contains minor black bedded chert, black chert-pebble conglomerate, siltstone, limestone and argillite

DEVONIAN-PERMIAN

undivided Rose Mountain formation and Mount Aho formation

DPRMA dark grey to black, calcareous, siliceous argillite and bedded chert with lesser siltstone, sandstone, chert-pebble conglomerate and limestone

DEVONIAN-EARLY CARBONIFEROUS

Mount Aho formation

DCAm silvery cream, tan-weathering, bedded phyllite chert with light grey barite beds

DCAm dark grey to black, noncalcareous, siliceous argillite and bedded chert with lesser siltstone, sandstone, chert-pebble conglomerate and limestone

DCAm pale green, noncalcareous argillite and bedded chert with lesser shale chip and siltstone breccia, grey sandstone and chert-pebble conglomerate; locally contains maroon argillite and bedded chert

ANCIENT NORTH AMERICA

DEVONIAN-EARLY CARBONIFEROUS

Earn Group

DCE dark grey to black, noncalcareous, siliceous argillite with lesser siltstone, sandstone, chert-pebble conglomerate and limestone

SILURIAN

siltstone

Ssp dark grey to black, platy, tan-weathering, thinly laminated, dolomitic siltstone

Road River Group

Steel Formation

SS tan- to orange-weathering, dolomitic, bitubulated, silty mudstone

ORDOVICIAN-DEVONIAN

quartz sandstone and dolostone

ODdl massive, medium-grained, quartz sandstone interbedded with pale tan-weathering limestone or dolostone

Road River Group

Duo Lake Formation

ODDl dark grey to black, gabbroic argillite; contains lesser medium to pale grey siltstone and fine sandstone, medium grey limestone and basalt flows

Menzies Creek formation

OSMCa undivided dark grey green, foliated basalt; includes massive and pillowed, locally amygdaloidal flows and heterolithic or monolithic breccias with lesser limestone, argillite and tuff

OSMCb dark green, locally amygdaloidal, massive and pillowed basalt with minor monolithic basalt breccia, volcanoclastic sandstone, siltstone and tuff

OSMCcb dark green, monolithic basalt breccia with lesser volcanoclastic sandstone, siltstone and tuff, and massive and pillowed flows

OSMCc grey to off-white limestone locally interbedded with orange-weathering siltstone

CAMBRIAN-ORDOVICIAN

Vangorda formation

COvp soft, silvery grey, calcareous phyllite with lesser medium crystalline, grey marble, dark grey to black phyllite and dark green gabbro dykes and sills (OS₂)

COvs pale green and dark purplish brown, thinly banded calc-silicate rock with lesser black schist, marble and dark green gabbro dykes and sills (OS₂)

COvg black, locally calcareous, carbonaceous phyllite or schist; commonly contains thin quartzose siltstone interbeds, interbedded with dark green gabbro dykes and sills (OS₂)

COvi pale to dark grey, foliated marble

UPPER PROTEROZOIC-CAMBRIAN

Mount Mye formation

UECMm brownish grey, noncalcareous, pervasively foliated phyllite; locally indistinctly bedded; contains minor siltstone, marble, calc-silicate rock, carbonaceous phyllite and dark green gabbro dykes and sills (OS₂)

UECMs brownish grey, noncalcareous, pervasively foliated muscovite-biotite schist; may contain staurolite, garnet, andalusite, or fibrolite; locally indistinctly bedded; contains minor siltstone, marble, calc-silicate rock, carbonaceous phyllite and dark green gabbro dykes and sills (OS₂)

UECMl pale green and dark purplish brown, thinly banded calc-silicate rock; contains marble and siliceous marble beds and dark green gabbro dykes and sills (OS₂); lithologically similar to Vangorda calc-silicate rock

UECMu dark to pale grey, medium crystalline marble; typically contains abundant boudins of calc-silicate rock and/or quartz; locally contains coarsely crystalline garnet-pyroxene schist

UECMa black phyllite to argillite; locally contains lenses and beds of black carbonaceous limestone and dark green gabbro dykes and sills (OS₂)

MINERAL OCCURRENCES

Yukon MINFILE

105K/23	★	GREEN VALLEY	Exploration Target
105K/24	★	MUSKIE	Exploration Target
105K/25	★	ORCHAY	Exploration Target
105K/28	★	SOCK	Exploration Target
105K/37	★	BLIND	Exploration Target
105K/39	★	CUB	Exploration Target
105K/42	★	NASTY	Exploration Target
105K/41	★	ABRAHAM	Exploration Target
105K/42	★	SEA	SEDEX
105K/43	★	SB	SEDEX
105K/44	★	BLACKWOOD	Exploration target
105K/45	★	BEA	Exploration target
105K/88	★	SIRDLA	Exploration target
105K/83	★	PARLIAMENT	Exploration target
105K/102	★		Exploration target

Notes: ★ = Exploration Target, ☆ = Mineral Occurrence, ○ = Fossil Sample, ● = Isotopic Age Determination Sample. Abbreviations: w=whole rock, m=marble, m=metre.

ISOTOPIC AGE DATES

Sample	Date	System	Mineral	Age (Ma)	Comments	Ref
PRB5-25-1	248 ± 14 Ma	Rb-Sr	w-mn zircon schist	248 ± 14	metamorphic cooling age	(4)
PRB5-25-1	256 ± 16 Ma	K-Ar	muscovite	256 ± 16	metamorphic cooling age	(4)
PRB5-25-1	273 ± 3 Ma	Ar-Ar	muscovite	273 ± 3	metamorphic cooling age	(8)
PRB5-25-2	287 ± 19 Ma	K-Ar	muscovite	287 ± 19	metamorphic cooling age	(4)
PRB5-25-2	243 ± 12 Ma	Rb-Sr	w-mn zircon	243 ± 12	metamorphic cooling age	(4)
PRB5-25-2	248 ± 8 Ma	Rb-Sr	w-mn zircon	248 ± 8	metamorphic cooling age	(4)
PRB5-21-10	287 ± 3 Ma	Ar-Ar	muscovite	287 ± 3	metamorphic cooling age	(8)
PRB5-21	255 ± 8 Ma	Sm-Nd	w-mn zircon	255 ± 8	metamorphic cooling age	(9)

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