

1:250 000-scale topographic base data  
produced by  
CENTRE FOR TOPOGRAPHIC  
INFORMATION  
NATURAL RESOURCES CANADA

## WEIGHTED SUMS MODEL AND GEOLOGY Ba (LEVELLED) YUKON

SCALE 1:250 000  
0 1 2 3 4 5 kilometres

True North  
18°2' 1°47'  
Grid North

106C	106B	106A
NADALEEN RIVER	BONNET PLUME LAKE	MOUNT EDUNI
105N	105O	105P
LANSING RANGE	<b>THIS MAP</b>	SEKWI MOUNTAIN
105K	105J	105I
TAY RIVER	SHELDON LAKE	LITTLE NAHANN RIVER

## Ba (Levelled)

WSM Percentiles: WSM Score, Number of RGS Samples

- 0 - 50%: -4.104 - 0.012, 466 samples
- 50 - 75%: 0.013 - 0.705, 237 samples
- 75 - 90%: 0.706 - 1.212, 141 samples
- 90 - 95%: 1.213 - 1.473, 47 samples
- 95 - 98%: 1.474 - 1.833, 28 samples
- 98 - 100%: 1.834 - 3.033, 19 samples

## QUATERNARY

**Q** QUATERNARY: unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluviatile silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

## MID-CRETACEOUS

**mKS** SELWYN SUITE: plutonic suite of intermediate (g) to more felsic composition (q); equivalent felsic dikes

**mKgS**

SELWYN SUITE: resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite

**mKqS**

SELWYN SUITE: equigranular to porphyritic (K-feldspar) biotite hornblende muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts

## MIDDLE TO UPPER TRIASSIC

**TJd** JONES LAKE: brown to buff weathering, calcareous fine-grained sandstone, argillite, and shale; extensive ripple cross-lamination and bioturbation; massive/light grey weathering, fine crystalline, dark grey limestone; minor orange weathering platy limestone

## CARBONIFEROUS TO PERMIAN

**CPMC** MOUNT CHRISTIE: burrowed, interbedded greenish grey cherty shale and green shale; thin to medium bedded, light grey-green to black chert; black siliceous shale and siltstone; minor quartzite, limestone and dolostone; locally abundant, large grey barite nodules

**CPT**

TSICHU: thin to medium-bedded siliceous calcarenite, dolostone, sandy dolostone and minor grey quartzite; buff and grey weathering, thick bedded, dark grey bioclastic limestone; black to silvery shale; minor chert, and chert pebble conglomerate

## MISSISSIPPIAN

**MK** KENO HILL: massive to thick-bedded quartz arenite; thin to medium-bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intracasts; locally foliated and lineated

## DEVONIAN AND MISSISSIPPIAN

**DME** EARN: complex assemblage of submarine fan and channel deposits (1) or within black siliceous shale and chert (2); barite common, and many occurrences of stratiform Pb-Zn

**DME1**

EARN: thin bedded, laminated shale with thin to thickly interbedded fine to medium-grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate, black siliceous siltstone; nodular and bedded barite; rare limestone

**DME2**

## ORDOVICIAN TO LOWER DEVONIAN

**ODR** ROAD RIVER - SELWYN: black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basal strata in Richardson Mountains include: ODR1 with ODR2 (upper part) and ODR2 with ODR4

**ODR1**

ROAD RIVER - SELWYN: black, gun-blue, or silvery white weathering black graphitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone

**ODR2**

ROAD RIVER - SELWYN: rusty dark green to orange buff weathering, pyritic, burrowed, thin to thick bedded, argillite and dolomitic siltstone with members or partings of black shale and chert; minor bright orange dolostone

**ODR3**

ROAD RIVER - SELWYN: blue-grey weathering, black limestone; tan, buff, or dark grey weathering platy, silty limestone

**ODR4**

ROAD RIVER - SELWYN: black shale; limestone, limestone conglomerate, and interstratified argillite and pale yellow limestone

## CAMBRIAN TO SILURIAN

**CSM** MARMOT: lower Paleozoic mostly mafic volcanics, in locally thick accumulations (1) - (6) but also of common occurrence as undifferentiated thin scattered members within other units

**CSM1**

MARMOT: resistant, dark grey weathering, massive, locally pillowed, dark grey-green basalt, tuff and breccia

**CSM5**

MARMOT: massive brown to green, basic lapilli tuff, breccias, flows, sills, and dikes; intracast breccia and conglomerate; brown weathering, green to grey, medium to very thick-bedded volcanoclastic sandstone

## UPPER CAMBRIAN AND ORDOVICIAN

**COR1** RABBITKETTLE: thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intracast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff

**COR2**

RABBITKETTLE: as in COR1, but may include Middle Cambrian and Middle Ordovician beds undivided

## LOWER CAMBRIAN

**ICG1**

GULL LAKE: shale, siltstone, and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (garnet, sillimanite, staurolite, and andalusite)

**ICG2**

GULL LAKE: dark green massive to fragmental mafic metavolcanic and volcanoclastic rocks; siltstone and argillite

## UPPER PROTEROZOIC TO LOWER CAMBRIAN

**PCH** HYLAND: consists upwards of coarse turbiditic clastics (1), limestone (2), and fine clastics typified by maroon and green shale (3); includes scattered mafic volcanic rocks (5)

**PCH1**

HYLAND: thin to thick-bedded, brown to pale green shale, fine to coarse-grained quartz-rich sandstone, grit, and quartz pebble conglomerate; minor argillaceous limestone, phyllite, quartzofeldspathic and micaceous psammite, and minor marble

**PCH2**

HYLAND: grey weathering, dark grey to grey white, thin to thick bedded, very fine crystalline limestone, locally sandy; calc-silicate and marble; may locally include carbonate members within (1) or (4)

**PCH3**

HYLAND: distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oidhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate

**PCH5**

HYLAND: dark brown and green to light grey weathering, dark green volcanic rocks, commonly with calcite filled vesicles, breccia, tuff, and agglomerate; minor interbedded shale, chert, siltstone, and limestone

## MIDDLE DEVONIAN

**DH1**

HUME: buff-brown weathering argillaceous to silty, dark grey, fine-grained limestone, platy to thin bedded; minor intercalated irregularly banded orange weathering dolostone and thin beds of resistant, orange-brown weathering limestone; richly fossiliferous

**DH2**

HUME: massive, thick-bedded, fine to medium-grained, light grey weathering limestone

**DH4**

HUME: buff-orange weathering, thin to medium-bedded silty limestone

**DL**

LANDRY: thin to very thick bedded, resistant, light grey weathering, medium to light grey and brownish crypto-grained limestone; massive and thick-bedded bioclastic, locally reefoid limestone; black, platy limestone

**DN**

NATLA: dark grey weathering, platy, thin bedded, recessive sooty limestone, in part crinoidal; uncommon beds of massive crinoidal limestone

**DA**

ARNICA: thin and thick-bedded dark grey to black commonly laminated dolostone; minor light grey dolostone and light grey to medium grey weathering dark grey to black limestone; striped dolostone; local massive wuggy breccia

## UPPER LOWER TO LOWER MIDDLE DEVONIAN

**DB**

GRIZZLY BEAR: limestone, white grey weathering, cliff forming, blocky partings, massive, fine to medium crystalline; scattered corals, brachiopods, bryozoans, and twin canal exchondrom ossicles

## LOWER DEVONIAN

**IDS**

SOMBRE: light and medium grey, even bedded, fine-grained dolostone; silver-grey dolostone; locally three members of light grey dolostone (lower); dark grey dolostone, in part crinoidal (middle); alternating light and dark grey dolostone (upper)

## UPPER SILURIAN TO LOWER DEVONIAN

**SDD**

DELORME: buff to orange weathering, well bedded, buff, light grey, brownish grey and dark grey, very fine grained dolostone; platy to flaggy, wavy banded blue-grey silty limestone with rare thin beds of buff weathering dolostone

## UPPER CAMBRIAN TO SILURIAN

**CSH**

HAYWIRE: undivided medium to thick-bedded, white to dark-grey dolostone, locally cherty; rare amygdaloidal basalt and tuff, basal member of grey-white dolostone, quartz arenite, and maroon mudstone

## UPPER ORDOVICIAN AND SILURIAN

**OSK2**

KINDLE: thick-bedded, black, coarse-grained dolostone and interbedded grey weathering laminated dolostone with nodules and bands of black chert; medium grey weathering, platy, grey argillaceous limestone with minor chert shale; massive and reefoid dolostone

**OSK4**

KINDLE: thick bedded to massive light grey dolostone and limestone; dark grey, feld limestone; includes undifferentiated beds as young as Lower Devonian

## MIDDLE ORDOVICIAN

**OS**

SUNBLOOD: mainly buff, rouge and light grey weathering platy dolostone and limestone; local interbedded light and dark grey fine crystalline and white coarse crystalline dolostone at base; rare thick beds of light blue-grey limestone

## UPPER CAMBRIAN AND ORDOVICIAN

**COF2**

FRANKLIN MOUNTAIN: well bedded, rhythmically bedded, grey and buff-orange dolostone; includes grey to black dolostone and dark grey to black limestone; local basal member of maroon dolostone and sandstone, silver-grey sandstone, and sandy dolostone

## MIDDLE CAMBRIAN

**mCH**

HESS RIVER: shale, black, pyritic, unfossiliferous; occurs as interstratified thick units of black calcareous shale and rusty black shale

**mCR**

ROCKSLIDE: recessive, dark grey weathering, laminated, platy calcareous shale, and silty, dark grey fine to crypto-grained limestone; minor thin beds of light brown to grey weathering platy dark crypto-grained limestone and rare bands of buff dolostone

## LOWER CAMBRIAN

**ICS**

SEKWI: limestone, locally wavy bedded and nodular; limestone conglomerate slope breccia; massive grey dolostone; medium to thick-bedded quartz sandstone; purple siltstone; bright orange weathering, fine crystalline dolostone

## UPPER PROTEROZOIC TO LOWER CAMBRIAN

**uPCV**

VAMPIRE: dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium to coarse-grained white to light grey orthoquartzite; phyllite, slate, and argillite

**PCB1**

BACKBONE: light grey, red-brown, white, and pink, thick-bedded, medium to coarse-grained orthoquartzite; minor brown or maroon phyllite, platy siltstone, silty shale, thin-bedded fine-grained quartzite, grey limestone, and sandy to pebbly limestone

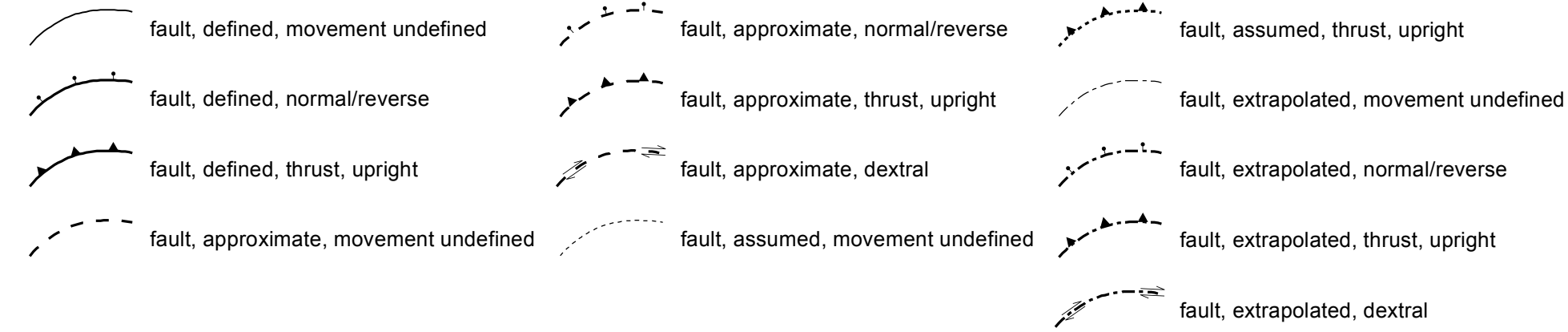


Table 2: List of Mineral Occurrences for NTS map sheets 1050 and part of 105P

OCCURRENCE #	OCCURRENCE NAME	ALIAS(ES)	DEPOSIT TYPE	STATUS	ECONOMIC COMMODITIES	OTHER COMMODITIES
1050 001	TOM		Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Deposit	Pb, Ag, Zn, Ba	Sb, barite, Cu
1050 002	MACLUNG		W Skarn	Deposit	W	Cu
1050 003	JEFF		Porphyry Mo (Low F-Type)	Showing		Mo
1050 004	ALP		Au-Quartz Veins	Showing		Au, Ag
1050 005	NIDDERY		Plutonic Related Au	Prospect		barite, Cd, Cu, Au, Ni, Ag
1050 006	SCOT		Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Drilled Prospect		Cu, Ni, Ag, Zn
1050 007	ATT		Au-Quartz Veins	Prospect		Sb, As, Bi, Au, Pb, Ag
1050 008	KEELE		Porphyry Mo (Low F-Type)	Showing		Mo
1050 009	EMERALD		Porphyry-related Au	Showing		Bi, Cu, Au, Mo, Ag, W
1050 010	HOHN		Cu skarn	Prospect		Cu, Au
1050 011	BEN		Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Showing		Pb, Zn
1050 012	ARROWHEAD		Poly metallic Veins Ag-Pb-Zn+/-Au	Showing		Pb, Cu, Pb, Zn
1050 013	RACOCOT		Sediment-Hosted Barite	Deposit	barite	Pb, Zn
1050 015	INCA		Poly metallic Veins Ag-Pb-Zn+/-Au	Past Producer	Ag	Pb, Zn
1050 016	STANDARD		Poly metallic Veins Ag-Pb-Zn+/-Au	Showing		Pb, Ag, Zn
1050 018	ODD		Mississippi Valley-Type Pb-Zn (MVT)	Drilled Prospect		Pb, Ag, Zn
1050 019	JASON		Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Deposit		barite
1050 020	SANDYBAR		Sediment-Hosted Barite	Deposit		Pb, Zn
1050 021	WALT	BAR	Sediment-Hosted Barite	Deposit		barite, Cu, Pb, Ag, Zn
1050 022	TRYALA		Sediment-Hosted Barite	Drilled Prospect		barite, Ba, Cu, Pb, Ag, Zn
1050 023	ORZULE	RAIN	Shale-Hosted Ni-Zn-Mo-PGE (Nick)	Showing		barite, Cu, Pb, Mo, Ni, V, Zn
1050 024	NIDPO		Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Drilled Prospect		barite, Ag, Zn
1050 025	BRENNER		Unknown	Drilled Prospect		Cu, Pb, Zn
1050 026	DICKIE		Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Unknown		Cu, Pb, Mo, Zn
1050 027	GARY	GARGANTUA	Sediment-Hosted Barite	Deposit	barite	
1050 028	FETCH		Sediment-Hosted Barite	Drilled Prospect		barite, Zn
1050 029	GOW	TH	Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Anomaly		barite
1050 030	GRIZZ		Porphyry Mo (Low F-Type)	Showing		Au, Mo, Ag, W
1050 031	VAN ANGEREN		Porphyry Mo (Low F-Type)	Showing		Mo
1050 032	NEVE	BRICK	Au-Quartz Veins	Drilled Prospect		Sb, Au, Ag, Zn
1050 033	KELVIN	BORD	Poly metallic Veins Ag-Pb-Zn+/-Au	Prospect		Sb, Au, Pb, Ag
1050 036	FAN		Unknown	Showing		barite
1050 037	LOMER		Barite Veins	Showing		Ba
1050 038	DUET		Unknown	Anomaly		Zn
1050 039	OLD CABIN		Poly metallic Veins Ag-Pb-Zn+/-Au	Showing		Cu, Au, Pb, Mo, Ag
1050 040	URSA		Unknown	Anomaly		
1050 041	FANGO		Poly metallic Veins Ag-Pb-Zn+/-Au	Prospect		Sb, Au, Pb, Ag, Zn
1050 042	FAL		Unknown	Unknown		
1050 043	SIM		W Skarn	Showing		Pb, W, Zn
1050 044	NIT		W Skarn	Showing		Cu, Pb, Ag, W, Zn
1050 045	STROSHEN		Sediment-Hosted Barite	Showing		barite
1050 046	MINORCO		Sediment-Hosted Barite	Showing		barite
1050 048	NUKE		Poly metallic Veins Ag-Pb-Zn+/-Au	Showing		Sb, As, Bi, Au, Cu, Pb, Ag
1050 049	FAENZI		Au-Quartz Veins	Showing		As, Au
1050 050	NORTH MACMILLAN		Barite Veins	Showing		
1050 051	DALL	HARLAN	Au-Quartz Veins	Prospect		Cu, Au
1050 052	BAILES		Unknown	Unknown		Cu, Au, Pb, Ag, Zn
1050 054	ROGUE		Poly metallic Veins Ag-Pb-Zn+/-Au	Prospect		Au, Pb, Ag, Zn
1050 055	CHRISTINA		Subvolcanic Cu-Au Ag (As-Sb)	Showing		Cu, Au, Ag
1050 056	GOLD		Porphyry Mo (Low F-Type)	Anomaly		
1050 057	STUMP	NID	Plutonic Related Au	Showing		As, Cu, Au, Pb, Ag
1050 058	LM		Plutonic Related Au	Drilled Prospect		Cu, Au, Ag
1050 059	SCRONK		Poly metallic Veins Ag-Pb-Zn+/-Au	Showing		Sb, Bi, Cu, Au, Ag, Zn
1050 060	HASTEN		Unknown	Drilled Prospect		Zn
1050 061	FUN		Unknown	Anomaly		Pb, Zn
1050 061	MEHTABEL		Cu Skarn	Drilled Prospect		Au

## Mineral Occurrence Deposit Type (Total on map)

- Au-Quartz Veins (5)
- Barite Veins (2)
- Cu Skarn (2)
- Mississippi Valley-Type Pb-Zn (MVT) (1)
- Plutonic Related Au (3)
- Poly metallic Veins Ag-Pb-Zn+/-Au (9)
- Porphyry Mo (Low F-Type) (5)
- Porphyry-related Au (1)
- Sediment-Hosted Barite (8)
- Sedimentary Exhalative Zn-Pb-Ag (Sedex