Natural Resources Canada / Ressources naturelles Canada

GEOLOGICAL SURVEY OF CANADA / COMMISSION GÉOLOGIQUE DU CANADA

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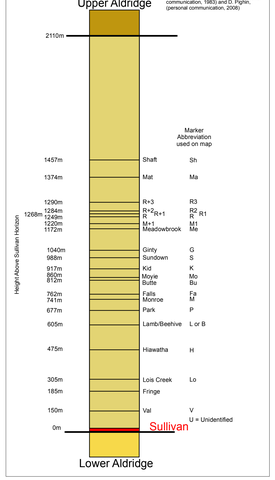
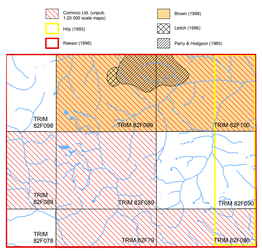
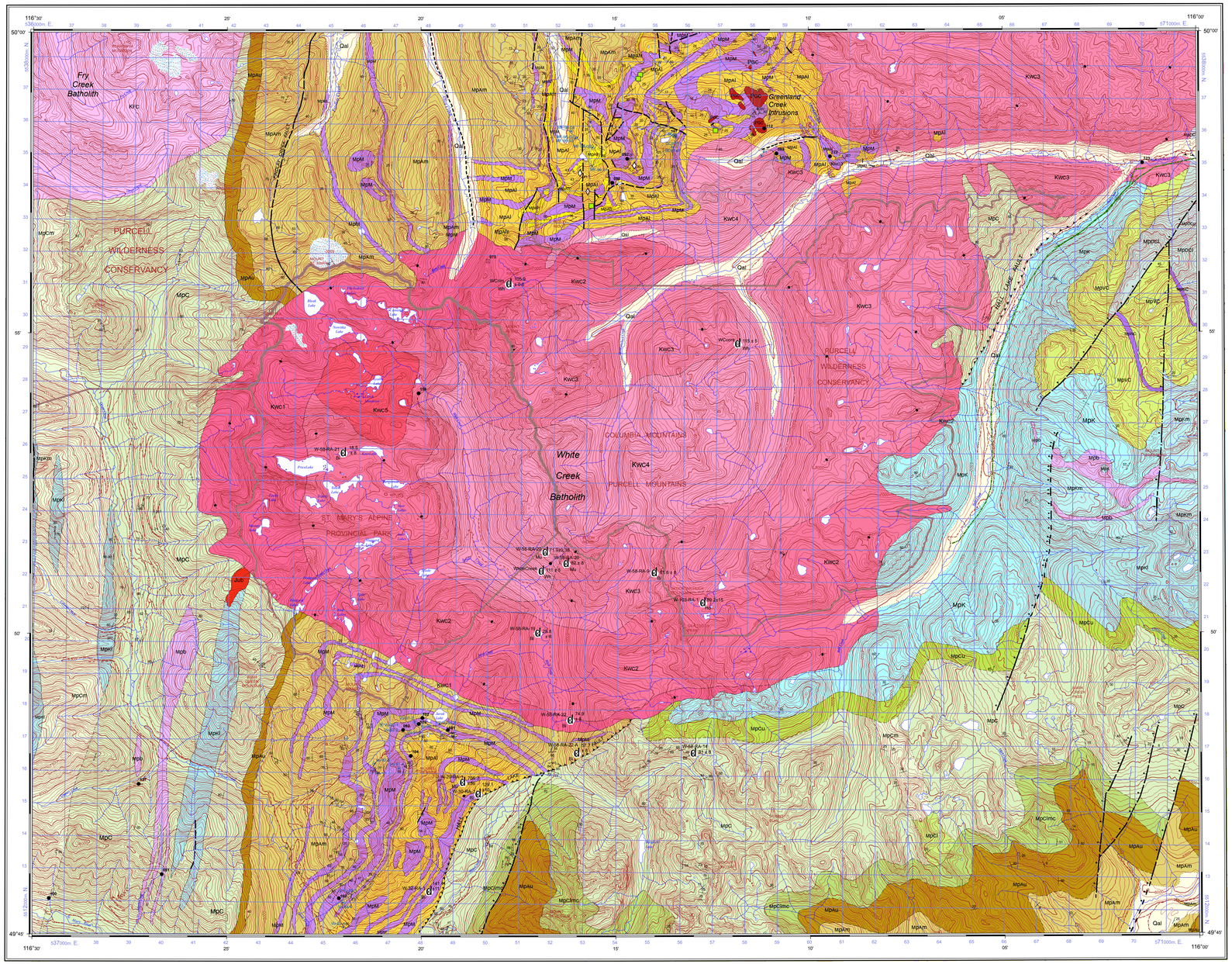
MIDDLE ALDRIDGE MARKER STRATIGRAPHY





REFERENCE MAP FOR SOURCES OF INFORMATION



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Digital cartography by R.F. MacLeod and C.L. Wagner, Geological Survey of Canada (Pacific Division)

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

LOCATION MAP

OPEN FILE 6305

GEOLOGY

DEWAR CREEK

BRITISH COLUMBIA

Scale 1:50 000/Échelle 1/50 000

kilometres 1 0 1 2 3 4 kilomètres

Universal Transverse Mercator Projection
North American Datum 1983

Projection transverse universelle de Mercator
Système de référence géodésique nord-américain, 1983

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Digital base map from data compiled by Geomatics Canada, modified by Geological Survey of Canada

Magnetic declination 2011, 15°47'E, decreasing 12' annually

Elevations in feet above mean sea level

Contour interval 100 feet

LAYERED ROCKS

Coloured legend blocks indicate map units that appear on this map.

CENOZOIC
QUATERNARY

Qal — *Unconsolidated outwash, alluvium, colluvium and till.*

PROTEROZOIC
MESOPROTEROZOIC (HELIKIAN)
PURCELL SUPERGROUP
DUTCH CREEK FORMATION

MpDC — *Undivided.*

- **MpDCu** — UPPER: *interbedded grey siltite and black argillite, thin to thick bedded; cm carbonate marker.*
- **MpDCl** — LOWER: *thinly interbedded black argillite and grey siltite.*

NICOL CREEK FORMATION

MpNC — *Massive to amygdaloidal basalt to andesite lava flows, volcanic sandstone, siltite.*

VAN CREEK FORMATION

MpVC — *Pale green, laminated, siltite and argillaceous siltite and quartz wacke. Minor ripple marks, lenticular bedding, rare flattened mudcracks.*

KITCHENER FORMATION

MpK — *Undivided.*

- **MpKm** — MIDDLE: *commonly buff-weathering dolomitic siltstone, dolomitic argillite, and dolomite; argillite, siltstone, quartzite; green tinged dolomitic siltstone near base.*
- **MpKl** — LOWER: *green and beige siltstone, dark grey argillite; dolomitic siltstone.*

CRESTON FORMATION

MpC — *Undivided.*

- **MpCu** — UPPER: *green siltstone; black or purple argillite and siltstone.*
- **MpCm** — MIDDLE: *light grey, mauve, purple, thin-to medium-bedded quartz arenite, quartz wacke, lesser grey siltite and argillite. White quartzite interbeds. Lenticular bedding, ripples, cross-bedding and mudcracks.*
- **MpCl** — LOWER: *wavy green to olive with tan weathering surfaces, thin-to thick-bedded to laminated argillite and siltite; lesser fine grained quartz wacke; wavy bedding and abundant mudcracks.*
- **MpClmc** — *Mud-cracked member.*

ALDRIDGE FORMATION

MpA

- **MpAfr** — *Fragmental rocks interpreted as sedimentary debris flows, breccias formed in dewatering pathways, mud volcano debris, and hydrothermal breccias: stratiform and discordant, matrix- and framework-supported fragmental rocks consisting of angular to rounded quartzite clasts having a size range of <2mm to >2m.*
- **MpAu** — UPPER: *rusty brown weathering, grey to dark grey, fissile to platy, laminated silty argillite, siltite.*
- **MpAm** — MIDDLE *grey to rusty weathering, thick- to thin-bedded, quartzofeldspathic wacke, intercalated argillite and siltite.*
- **MpAl** — LOWER: *rusty brown weathering, thin- to medium-bedded, quartz wacke, quartz arenite.*

INTRUSIVE ROCKS

MESOZOIC
CRETACEOUS

BAYONNE PLUTONIC SUITE (KWC1 to KFC)

KFC — FRY CREEK BATHOLITH: *Leucomonzogranite; biotite monzogranite; biotite-muscovite monzogranite in westernmost exposures.*

WHITE CREEK BATHOLITH

KWC

- **KWC5** — *Biotite monzogranite.*
- **KWC4** — *Biotite-muscovite leucomonzogranite.*
- **KWC3** — *Biotite monzogranite with megacrysts of potassium feldspar; aplite and pegmatite.*
- **KWC2** — *Hornblende granodiorite.*
- **KWC1** — *Biotite-epidote granodiorite.*

JURASSIC

Jub — *Ultramafic rocks, serpentinized peridotite.*

PROTEROZOIC

Pgc — GREENLAND CREEK INTRUSIONS: *Granitoid pegmatite, coarse-grained tourmaline-rich pegmatite. Probably equivalent to Hellroaring Creek Stock.*

MESOPROTEROZOIC (HELIKIAN)

Mpb — *Mafic sills and rare dikes hosted in Kitchener Formation. Olive green, massive to plagioclase porphyritic.*

MOYIE INTRUSIONS

MpM — *"Moyie Sills": Dark green to black, medium- to fine-grained gabbro and hornblende quartz diorite sills and minor dikes. Zircon U-Pb dates circa 1467 Ma (Anderson and Davis, 1995).*

SYMBOLS

- *Geological contact: defined, approximate, assumed*
- *Outcrop*
- *Quaternary limit of cover*
- *Contact between subdivided and undivided units*
- *Fault: defined, approximate, assumed*
- *Fault, thrust (teeth on upthrust side): defined, approximate, assumed*
- *Fault, normal (solid circle indicates downthrown side): defined, approximate, assumed*
- *Bedding: inclined, vertical, overturned* — 75, 23, 13
- *Bedding: facing direction known*
- *Foliation, schistosity, fracture cleavage: inclined, vertical* — 24
- *Foliation (granitic rocks): primary (inclined, vertical)*
- *Minor fold: axial plane and plunge of axis: inclined, vertical* — 24, 26
- *Tourmalinite: outcrop*
- *Albite alteration*
- *Marker locality (see index for abbreviations)*
- *Geochronolgy sample: Age Method: Ar/Ar, K/Ar, Rb/Sr (Sample number, Age, Mineral marked as shown)* — Sample Number, Age, Mineral; A, K, R; 901
- *MINFILE mineral occurrence (see table): prospect, showing*
- *Drill hole and reference number (see Joseph et al., 2010)*
- *Anticline, syncline (trace of axial surface)*
- *Antiform, synform (trace of axial surface)*
- *Overturned anticline, syncline (trace of axial surface)*
- *Overturned antiform, synform (trace of axial surface)*
- *Approximate location of reflection seismic line*
- *Provincial Park boundary*

TABLE OF MINFILE OCCURRENCES

MINFILE NO	NAME	STATUS	COMMODITIES
082FNE051	GREAT DANE (L 5285)	Showing	PB CU ZN
082FNE073	MOLLY	Prospect	WO MO
082FNE089	PICO	Showing	WO CU
082FNE090	VAL	Showing	WO SN
082FNE092	PIMACO	Showing	WO SN
082FNE093	VULCAN	Showing	PB CU
082FNE100	BRACEBRIDGE	Showing	CU
082FNE101	HILO 2	Showing	PB CU
082FNE102	HILO 4	Showing	WO CU BF ZN
082FNE103	HILO 3	Showing	PB
082FNE104	HILO 10	Showing	ZN WO CU
082FNE107	GREENLAND CREEK	Prospect	PB ZN AG CU
082FNE112	GREENLAND CREEK BERYL	Showing	BE BY
082FNE122	BURNT	Showing	CU
082FNE123	HOT SPRING	Showing	HS
082FNE137	SERVANT	Showing	CU
082FNE198	WHITE CREEK	Showing	BY
082FNE160	VULCAN 5	Showing	ZN PB

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GEOLOGICAL SURVEY OF CANADA
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2011

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