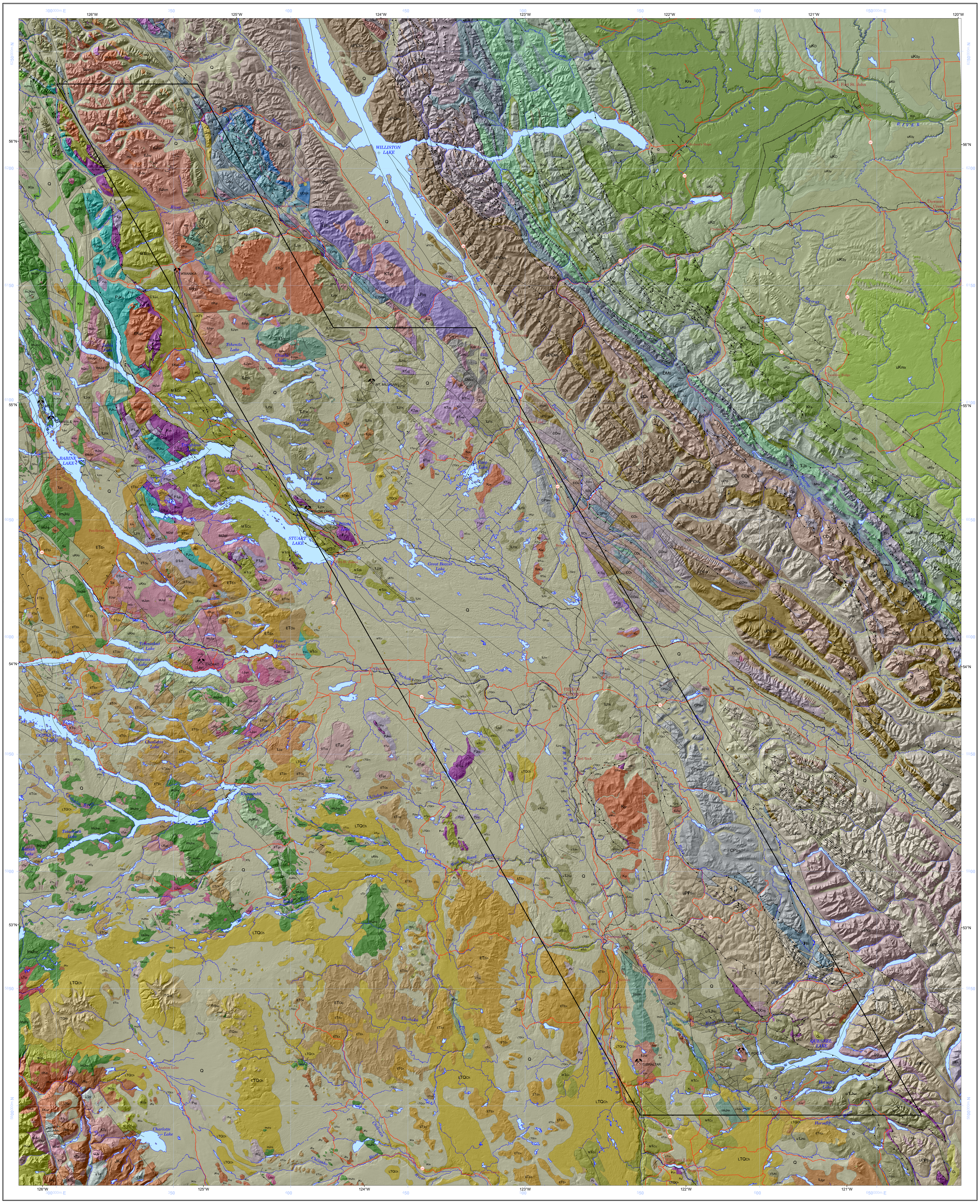
Geoscience BC

QUEST PROJECT

1:250 000 NTS SHEETS 93A,B,C,F,G,H,I,J,K,N,O,P
PART OF 1:250 000 NTS SHEETS 93D,E,L,M AND 94A,B,C,D


126°W
125°W
124°W
123°W
122°W
121°W
120°W
300000m.E
350
400
450
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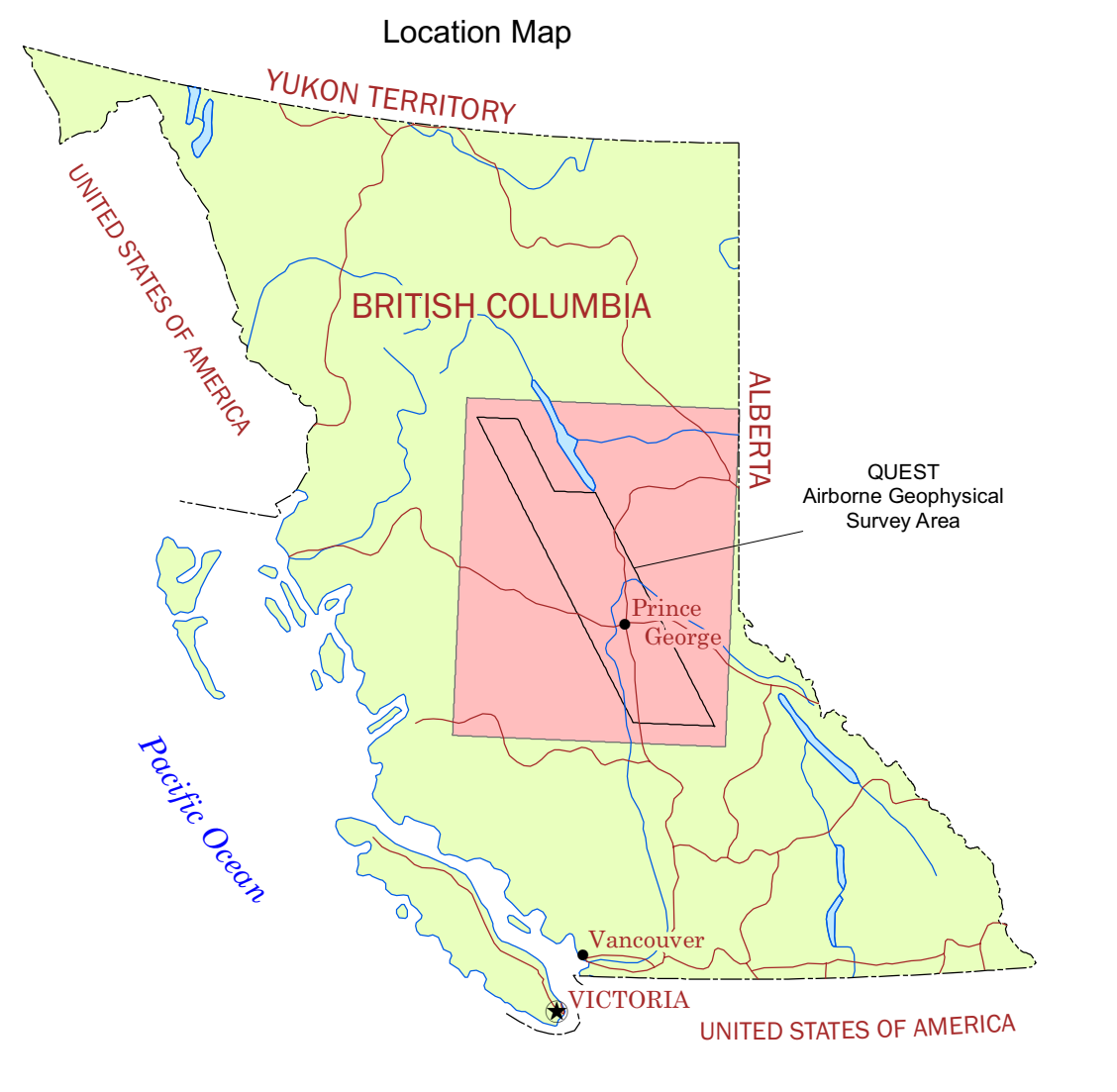
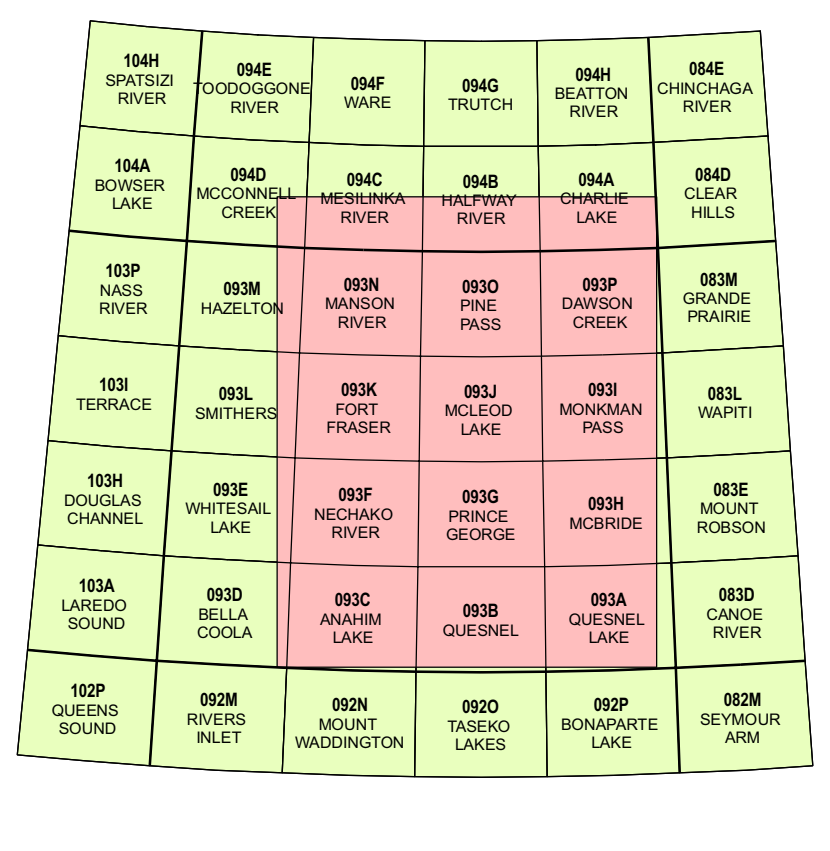
550
600
650000m.E
6250000m.N
6200
6150
6100
6050
6000
5950
5900
5850
5800000m.N
56°N
55°N
54°N
53°N
WILLISTON LAKE
Mesilinka
Osilinka
Omineca River
Graham River
PEACE RIVER
Charlie Lake
Fort St. John
Taylor
Hudson's Hope
Moberly Lake
Chetwynd
Dawson Creek
Pouce Coupe
Rolla
Tumbler Ridge
Pine River
Murray River
Kiskatinaw
Sukunka River
Wapiti River
KWANIKA
Takla Lake
Tchentlo Lake
Chuchi Lake
MT. MILLIGAN
Mackenzie
BELL
GRANISLE
BABINE LAKE
Trembleur Lake
Inzana Lake
Tezzeron Lake
Carp Lake
McLeod Lake
Parsnip
PINCHI LAKE
Pinchi Lake
STUART LAKE
Fort St. James
Great Beaver Lake
Salmon River
Topley
Pendleton Bay
Decker Lake
Tchesinkut Lake
Fraser Lake
Fort Fraser
Francois Lake
Southbank
ENDAKO
Vanderhoof
Nechako River
Willow River
Upper Fraser
Bear Lake
Ferndale
PRINCE GEORGE
McGregor River
Bowron
Purden
OOTSA LAKE
Cheslatta Lake
Kenney Dam
Knewstubb Lake
Chilako River
Chilcotin
Tetachuck Lake
Eutsuk Lake
Entiako River
West Road River
Red Rock
Hixon
Quesnel
Kersley
Australian
Alexandria
Dean River
Clisbako River
Nazko River
Anahim Lake
Charlotte Lake
Chilanko River
Chilcotin River
Alexis Creek
FRASER RIVER
Quesnel River
Cariboo River
GIBRALTAR
MT. POLLEY
QUESNEL LAKE
Horsefly Lake
Horsefly River
Horsefly
Likely
Williams Lake
Sugarcane

Disclaimer: While every effort has been taken to ensure the accuracy of the information in this map, the data are provided on an 'as-is' basis, without any warranty, guarantee or representation of any kind, whether expressed or implied. It is the responsibility of the user to check the facts before entering any financial or other commitment based upon this information.

Location Map


YUKON TERRITORY
UNITED STATES OF AMERICA
BRITISH COLUMBIA
ALBERTA
QUEST Airborne Geophysical Survey Area
Prince George
Pacific Ocean
Vancouver
VICTORIA
UNITED STATES OF AMERICA

National Topographic System Index


104H SPATSIZI RIVER
094E TOODOGGONE RIVER
094F WARE
094G TRUTCH
094H BEATTON RIVER
084E CHINCHAGA RIVER
104A BOWSER LAKE
094D MCCONNELL CREEK
094C MESILINKA RIVER
094B HALFWAY RIVER
094A CHARLIE LAKE
084D CLEAR HILLS
103P NASS RIVER
093M HAZELTON
093N MANSON RIVER
093O PINE PASS
093P DAWSON CREEK
083M GRANDE PRAIRIE
103I TERRACE
093L SMITHERS
093K FORT FRASER
093J MCLEOD LAKE
093I MONKMAN PASS
083L WAPITI
103H DOUGLAS CHANNEL
093E WHITESAIL LAKE
093F NECHAKO RIVER
093G PRINCE GEORGE
093H MCBRIDE
083E MOUNT ROBSON
103A LAREDO SOUND
093D BELLA COOLA
093C ANAHIM LAKE
093B QUESNEL
093A QUESNEL LAKE
083D CANOE RIVER
102P QUEENS SOUND
092M RIVERS INLET
092N MOUNT WADDINGTON
092O TASEKO LAKES
092P BONAPARTE LAKE
082M SEYMOUR ARM

Legend

Geoscience BC and Northern Development InitiativeTrust - Airborne Geophysical Survey Area ▭

Geological contact

Fault

- normal
- thrust (teeth on upper plate)
- extension
- unknown

Railroad (unclassified)

Road (unclassified)

Mineral deposit (selected) ⚒

Populated place (unclassified) ◉

Elevation Model Data

Source: Geobase - Building Common Ground
www.geobase.ca

Canadian Digital Elevation Data (CDED)

Geology and Topographic Data

Source: B.C. Ministry of Energy, Mines and Petroleum Resources
www.empr.gov.bc.ca/mining/geoscience

Massey, N.W.D, MacIntyre, D.G., Desjardins, P.J. and Cooney, R.T. (2005): Digital Geology Map of British Columbia: Whole Province; B.C. Ministry of Energy and Mines, Geofile 2005-1.

Acknowledgments

Cartography by Stephen P. Williams, Geoscience BC

Elevation model prepared by Kaz Shimamura, Geological Survey of Canada

Geoscience BC is funded through grants from the Provincial Government of British Columbia.

QUEST is funded in partnership with the Northern Development Initiative Trust - www.nditrust.ca

Northern Development INITIATIVE TRUST

Geoscience BC

Geoscience BC is an industry-led, industry-focused not for profit society that works to attract mineral and oil and gas investment to British Columbia through collection and marketing of geoscience data.

www.geosciencebc.com

MAP 2009-4-3

GEOLOGY - HILLSHADE COMPOSITE

QUEST PROJECT

1:250 000 NTS SHEETS 93A,B,C,F,G,H,I,J,K,N,O,P
PART OF 1:250 000 NTS SHEETS 93D,E,L,M AND 94A,B,C,D

1:500,000

0 5 10 15 20 25 50 kms

Universal Transverse Mercator Projection, Zone 10
Horizontal Datum: North American Datum 1983

Mean magnetic declination 2009, 19°43´E, decreasing 16.6´ annually. Readings vary from 18°02´E in the southeast corner to 21°02´E in the northwest corner of the map.

January 26, 2009

Citation:
Geoscience BC (2009): QUEST Project - Geology - Hillshade Composite; Geoscience BC, Map 2009-4-3, scale 1:500 000.

GEOSCIENCE BC - QUEST - GEOLOGY

SEDIMENTARY AND VOLCANIC ROCKS

CENOZOIC

Neogene to Quaternary

Q	Quaternary cover: Alluvium, glaciofluvial gravels and sand, till. (Note: the extensive Quaternary deposits of the Rocky Mountain foothills and the Peace River area have been omitted.)
Qv	Quaternary volcanics including Blue Lake Volcanics, Lambly Creek Basalt, Lake Island and Big Raven Formations: Basalt, olivine basalt, unconsolidated ash, scoria, agglomerate and breccia.
LTQAn	Anahim Volcanics, Bella Bella Formation and equivalents: Basalt, andesite, trachyte and rhyolite flows; andesite and dacite breccia, tuff, minor greywacke, slate and conglomerate.
LTQCh	Chilcotin Group: Vesicular, columnar jointed basalt, olivine basalt; minor andesite, rhyolite breccia, obsidian, tuff, breccia, conglomerate, sandstone, siltstone, shale and diatomite.

Oligocene to Pliocene

OPFr	Poorly consolidated Tertiary sediments (includes the Fraser Bend and Australian Creek Formations): Poorly consolidated to unconsolidated conglomerate, sandstone and mudstone; minor diatomite, lignite, basalt.

Paleogene

ETs	Paleogene sediments including Chuckanut, Kitsilano, Slatechuck, Tanzilla Canyon, Kishehn and Sophie Mountain Formations: Conglomerate, sandstone, siltstone, shale, marl, minor coal; minor tuffs and tuffaceous siltstone; basalt.
ETKm	Kamloops Group: Sandstone, conglomerate, shale, argillite, coal; basalt, andesite, dacite, trachyte, rhyolite, related tuffs and breccias.
ETEn	Endako Group: Andesite, basalt, minor dacite; flows, breccia and tuff, vesicular, amygdaloidal, locally hyaloclastic, minor picritic basalt and rhyolite; conglomerate, sandstone, lignite.
ETOo	Ootsa Lake Group (including Newman Formation) and unnamed equivalents: Rhyolite, dacite, trachyte flows; related tuff and breccia; andesite and basalt; minor conglomerate, grit, greywacke and tuffaceous shale.

MESOZOIC

Cretaceous to Tertiary

uKTs	Sifton and Usilika Formations. Bowron River Coal Beds and Reynolds Creek Succession: Pebble to boulder conglomerate, sandstone, siltstone, shale, minor coal.
Ksu	Sustut Group and unnamed equivalents: Sandstone, siltstone, mudstone, chert and quartz-pebble conglomerate, felsic ash-tuff, minor coal.

Jurassic to Cretaceous

JKKF	Kootenay Group and Fernie Formation: Shale, sandstone; limestone, phosphatic and sideritic shales.
mJKBo	Bowser Lake Group: Heterolithic conglomerate, sandstone, siltstone, mudstone, shale, feldspathic wacke, minor coal; minor basalt and andesite flows, breccia and tuff, dacitic lava flows, lapilli tuff.
uJKMn	Minnes Group (includes some undifferentiated Bullhead Group): Sandstone, quartzite, siltstone, shale, conglomerate, minor coal.

Cretaceous

KFs	Fort St. John Group, may include some Smokey Group units: Shale, sideritic shale, silty mudstone, siltstone, sandstone, concretionary shale, minor coal, conglomerate, glauconitic sandstone and siltstone.

Upper Cretaceous

uKD	Dunvegan Formation: Massive conglomerate, fine to coarse-grained sandstone, carbonaceous shale.
uKKs	Kasalka Group unnamed equivalents: Hornblende-feldspar porphyritic andesite to basalt flows and related pyroclastics, breccias and epiclastic beds, lesser dacite, rhyodacite, basaltic andesite, quartz porphyry; sandstone, conglomerate.
uKSy	Smokey Group and Kotaneelee Formation: Sandstone, carbonaceous shale, calcareous shale, calcareous sandstone, minor conglomerate.
uKWa	Wapiti Formation: Conglomerate, fine to coarse grained sandstone; carbonaceous shale and coal.

Lower Cretaceous

lKBu	Bullhead Group: Sandstone, conglomerate, shale, coal.
lKGa	Gambier Group; Monarch Volcanics, Ottarasko Formation; and equivalents including the Cerulean Lake Unit: Conglomerate, sandstone, shale, argillite, minor limestone; basaltic andesite to rhyolite flows, crystal and lapilli tuff, tuffaceous sandstone, volcanic conglomerate and breccia; schist, graphitic schist.
lKSk	Skeena Group: Feldspathic and volcanic sandstone, siltstone, shale, mudstone, chert-pebble conglomerate, minor coal; augite-plagioclase phyric alkaline basalt to basaltic andesite, plagioclase phyric andesite to dacite; aphyric basalt, green to maroon mafic lapilli tuff, volcanic breccia, rhyolite to dacite flows.

Lower to Middle Jurassic

lmJAh	Ashcroft Formation and unnamed equivalents: Argillite, siltstone, sandstone, conglomerate; minor limestone.
lmJHz	Hazelton Group; Griffith Creek and Hotnarko Volcanics: Calcalkaline basalt to rhyolite pyroclastics and flows, derived volaniclastic conglomerate, breccia, sandstone, siltstone, shale, minor limestone and marl.

Lower Jurassic

lJCl	Chuchi Lake Succession: Pebbly grit, polymictic conglomerate containing abundant volcanic clasts, sandstone, siltstone, dark grey shale, lesser cherty dust tuff; maroon and green, porphyritic latite, trachyte and andesite, augite, olivine basalt flows and breccia, lapilli tuff.
lJTw	Twin Creek Succession and equivalents: Heterolithic lapilli tuff, plagioclase-augite and plagioclase, quartz porphyritic flows and agglomerate/tuff breccia; arkose, greywacke, sandstone, siltstone, minor conglomerate and coal.

Triassic to Jurassic

uŦJNc	Nicola Group: Undifferentiated mafic to felsic flows and volcaniclastic rocks, including augite-phyric flows, tuffs and breccias; feldspathic sandstone and siltstone, argillite, shale, polymict conglomerate; minor limestone and calcareous siltstone.
ŦJTK	Takla Group (may include deformed Asitka Group); Tezzaron Sequence; and unnamed equivalents: Augite-phyric and aphyric basalt breccia, agglomerate, tuff, pillowed and massive flows; mafic to felsic tuff, ash tuff, lapilli tuff, breccia and conglomerate; tuffaceous argillite and siltite, greywacke, conglomerate, sandstone, siltstone and chert; phyllite, phyllitic schist; limestone, minor skarn.

Triassic

ŦJs	Spray River Group; Halfway, Liard, Charlie Lake, Baldonnel, Pardonet, Ludington, Toad and Grayling Formations; unnamed equivalents: Limestone, dolomite, carbonaceous - argillaceous limestone, calcareous and dolomitic siltstone, calcareous sandstone; shale, sandstone, orthoquartzite and minor gypsum.

Upper Triassic

uŦS	Stuhini Group; Mosley and Mount Moore Formations; and unnamed equivalents; Mafic to intermediate lapilli tuff, ash, breccia and tuffite; massive aphyric to plagioclase and augite-phyric flows and sills; felsic tuff; tuffaceous siltstone, wacke, argillite, polymict conglomerate, limestone, shale; graphitic shale, rare black chert, ribbon chert.

PALEOZOIC TO MESOZOIC

Permian to Jurassic

PJKu	Kutcho Formation, Sitlika Assemblage and possible equivalents: Basaltic to rhyolitic schist, greenstone, pillowed metabasalt, heterolithic breccia; slate, phyllite; banded siltstone, sandstone and conglomerate; minor limestone, marble, chert and green chloritic phyllite.

Mississippian to Jurassic

MŦCc	Cache Creek Complex and equivalents: Greenstone, amphibolite, mafic pillow lavas, volcanic breccia, agglomerate, tuff, rare felsic flows and tuff; phyllite, siliceous phyllite, metachert, ribbon chert, chlorite schist, sandstone; micritic to clastic limestone, argillite, marble, dolomite; minor serpentinite and mafic intrusions.

PALEOZOIC

PBl	Black Stuart Group: Chert, limestone, dolostone and derived conglomerate and breccia; black shale and argillite, cherty argillite, quartzite, siltite and slate; some pillow basalt, schistose calcareous basaltic tuff and volcaniclastics.

Devonian to Permian

DPAs	Asitka Group: Massive, grey, bioclastic limestone; argillaceous, thin bedded, recrystallized limestone with chert nodules; slate, slaty siltstone and chert; sericite and chlorite phyllite and schist; metagabbro, basalt, rhyolite, tuff; minor serpentinite and listwanite.
DPBc	Big Creek Group: Basalt breccia, tuff and pillows; dacitic and rhyolite tuff; shale, argillite, slate, calcareous argillite, limestone, tuffaceous argillite, sandstone, wacke.
CPSm	Slide Mountain Complex and Antler Formation: Massive and pillowed basalt, breccia, tuff, diabase, minor diorite, gabbro and serpentinite; chert, argillite, lithic sandstone, limestone, dacitic tuff and agglomerate, black argillite, quartz-chert sandstone, variocoloured chert, rhodonite, calcarenite, phyllite, chlorite schist.

Carboniferous to Permian

CPNi	Nina Creek Group: Cherty argillite, chert, argillite, massive and pillowed basalt, volcanic breccia, gabbro, siltstone, wacke, dacite.
CPSd	Stoddart Group, Fantasque and Kindle Formations: Limestone, dolomite, conglomerate, bedded chert, quartz sandstone, calcareous sandstone, siltstone, shale, locally phosphatic; dark grey chert.
CPLy	Lay Range Assemblage, Evans Creek Limestone: Massive and pillowed basalt, chert, fine to medium-grained gabbro and rare serpentinite; crystal and lapilli tuff, siliceous tuff, volcanic sandstone, minor agglomerate, siltstone, siliceous argillite, limestone, quartz sandstone, minor conglomerate.

Devonian to Mississippian

OMEa	Earn Group: Argillite, slate, shale, locally carbonaceous and pyritic; chert, cherty mudstone; chert arenite and pebble conglomerate, polymictic conglomerate; limestone; nodular and bedded barite +/- sulphides.
DMB	Besa River Formation: Black, siliceous shale, calcareous siltstone, minor dolomite, limestone, sandstone and pebble conglomerate, barite.
DMBe	Banff and Exshaw Formations: Carbonate, black shale, brown calcareous shale.

Mississippian

MRu	Rundle Group; Prophet and Flett Formations; unnamed equivalents: Dolomite, limestone, crinoidal and skeletal limestone, cherty limestone, calcareous mudstone, spiculite, chert, argillite, siltstone, rare amygdaloidal basalt.

Cambrian to Devonian

ꞒDER	Razorback and Echo Lake Groups: Thinly layered and interbedded argillaceous limestone and dolomite, shale and slate; dolomite, sandy dolomite, sandstone to quartzite, massive to poorly bedded limestone and dolomite; equivalent to the Kechika and Road River Groups and the Tapioca Sandstone of the Sandpile Group.

Ordovician to Devonian

ODRo	Road River Group (may include some undifferentiated Earn Group): Shale, slate, siltstone, chert, minor coarse clastics, limestone, dolomite, rare tuffs.

Silurian to Devonian

SDs	Silurian to Devonian strata of the Rockies including Cedared, Burnais, Harrogate, Mount Forster, Muncho-McConnell, Wokkpash, Stone, Dunedin, Nonda, Pine Point Formations and Tapioca Sandstone: Dolomite, limestone, silty limestone and dolostone, sandstone, quartzite, argillite, shale, siltstone, chert, greenstone, minor gypsum.

Devonian

DFa	Fairholme Group, Flume, Mount Hawk, Palliser, Pendrix Formations and unnamed equivalents: Argillaceous limestone, nodular limestone, calcareous shale, dolomite; shale, siltstone, orthoquartzite.

Cambrian to Ordovician

ꞒOKe	Kechika Group; may include some undifferentiated Road River Group, Skoki Formation or Gog Group: Limestone, argillaceous limestone, pale calcareous slate, phyllitic limestone, calcareous phyllite, pyritic and carbonaceous slate and shale; minor conglomerate, sandstone, greenstone and green tuff.
ꞒOOs	Cambrian to Ordovician strata of the Rockies: includes McKay Group, Monkman Quartzite, Active, Chushina, Mount Wilson, Skoki, Tipperary, Glenogle, Survey Peak, Beaverfoot, Arctomys, Waterfowl, Cathedral, Tanglefoot, Elko, Gordon, Chancellor, Eldon, Flathead, Gull Lake, Jubilee, Lyell, Sullivan, Lynx, Mistaya, Bison Creek, Nelway, Ottertail, Pika, Snake, Indian, Stephen, Mount White and Tsar Creek Formations, Kinbasket unit and several unnamed units: Limestone, dolomite, shale, calcareous shale, slate, sandstone, red beds, quartzite, minor conglomerate and chert.

Cambrian

ꞒAt	Atan Group: Orthoquartzite, siltstone, shale, sandstone; limestone; minor dolostone, phyllite and conglomerate.

PROTEROZOIC TO PALEOZOIC

uPPSn	Snowshoe Group: Micaceous quartzite, quartzite, phyllite, slate and schist; lesser siltite, limestone and limestone or quartzite-clast conglomerate; minor amphibolite, metatuff, marble and diabase.

Upper Proterozoic to Cambrian

uPꞒMs	Misinchinka Group (may include some undifferentiated Miette Group): Phyllite, siltite, slate, diamictite, quartzite, feldspathic quartzite, minor iron formation; limestone, dolomite, sandy limestone and dolomite, minor argillite; quartz chlorite schist, chloritic phyllite, garnet-mica schist, calcareous sericite schist, amphibolite.
uPꞒC	Cariboo Group: Shale, siltstone, limestone, argillite, phyllite, schist, quartzite; minor feldspathic sandstone and conglomerate.
uPꞒGo	Gog and Boulder Creek Groups; Badshot (may include some undifferentiated Index Formation), Hota, Mohican, Marsh Adams and Mount Garnier Formations, and unnamed equivalents: Limestone, siltstone, dolomite; quartzite, pebble conglomerate; alkalic to calc-alkalic basalt, andesite and dacite; mica schist, marble amphibolite.

PROTEROZOIC

Upper Proterozoic

uPIg	Ingenika Group: Quartzite, micaceous quartzite, pebble conglomerate, limestone, dolomite, oolitic and pisolitic limestone, shale, sandstone, wacke, sandy limestone, phyllite, schist, gneiss, chlorite-muscovite schist, slate, argillite, micaceous crystalline limestone, marble, calcsilicate rock, amphibolite.
uPKz	Kaza Group: Phyllite, greywacke, grit, argillite, schist and micaceous feldspathic quartzite; minor pebble conglomerate, amphibolite, limestone and marble.
uPMi	Miette Group: Grit, conglomerate, quartzite; phyllite, argillite, slate, pelitic schist, metasandstone; dolomite, marble and minor calcsilicate rock.

INTRUSIVE ROCKS

CENOZOIC

LŦ	Late Tertiary: granite (gr).
ET	Early Tertiary: monzodiorite (dg), gabbro (gb), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm), quartz porphyry (qp), feldspar porphyry (fp), migmatite (mi) and undifferentiated intrusive rocks (g).

MESOZOIC

KT	Cretaceous to Tertiary: diorite (dr), granodiorite (gd), granite (gr), syenite (sy), feldspar porphyry (fp), pegmatite (pe) and undifferentiated intrusive rocks (g).
LK	Late Cretaceous: diorite (dr), granodiorite (gd), granite (gr), quartz monzonite (qm), quartz porphyry (qp), tonalite (to) and feldspar porphyry (fp).
mK	Middle Cretaceous: monzodiorite (dg), gabbro (gb), granodiorite (gd) and granite (gr).
EK	Early Cretaceous: diorite (dr), monzodiorite (dg), granodiorite (gd), granite (gr), quartz diorite (qd) and quartz monzonite (qm).
K	Cretaceous: granite (gr), pegmatite (pe), orthogneiss (og), migmatite (mi) and undifferentiated intrusive rocks (g).
JK	Jurassic to Cretaceous: granite (gr), quartz monzonite (qm), tonalite (to), quartz porphyry (qp), orthogneiss (og) and undifferentiated intrusive rocks (g).
J	Jurassic: granodiorite (gd).
LJ	Late Jurassic: diorite (dr), granodiorite (gd), granite (gr), quartz diorite (qd) and quartz monzonite (qm).
MJ	Middle Jurassic: Diorite (dr), granodiorite (gd), granite (gr), quartz diorite (qd), quartz monzonite (qm), syenite (sy), feldspar porphyry (fp) and undifferentiated intrusive rocks (g).
MLJ	Middle to Late Jurassic: diorite (dr), gabbro (gb), granodiorite (gd), granite (gr) and quartz diorite (qd).
EMJ	Early to Middle Jurassic: diorite (dr), granodiorite (gd) and diabase (db).
EJ	Early Jurassic: diorite (dr), monzodiorite (dg), gabbro (gb), granodiorite (gd), quartz diorite (qd), quartz monzonite (qm), syenite (sy).
ŦJ	Triassic to Jurassic: diorite (dr), gabbro (gb), granodiorite (gd), quartz monzonite (qm), syenite (sy) and feldspar porphyry (fp)
Ŧ	Triassic: diorite (dr), gabbro (gb) and granodiorite (gd).
	Mesozoic: ultramafics (um) and serpentinites (us); Ŧum, Ŧus, ŦJum, ŦJus and EJum.

PALEOZOIC

PJ	Permian to Jurassic: tonalite (to) and orthogneiss (og).
PŦ	Permian to Triassic: diorite (dr), gabbro (gb), tonalite (to) and diabase (db).
P	Permian: gabbro (gb).
CP	Carboniferous to Permian: diorite (dr) and gabbro (gb).
C	Carboniferous: diorite (dr).
M	Mississippian: diorite (dr) and syenite (sy).
DC	Devonian to Carboniferous: orthogneiss (og).
D	Devonian: Syenite (sy).
	Paleozoic: Syenite (sy); Ssy.
	Paleozoic: ultramafics (um) and serpentinites (us); CPum, CPus, CŦrum, CŦus, Cus, DŦum and Pum.

AGE UNKNOWN

	Age unknown or poorly constrained: granite (gr) and orthogneiss (og).

METAMORPHIC ROCKS

MESOZOIC

	Mesozoic (includes KT): greenschist to mid-amphibolite facies rocks (gs), calcsilicates (mc) and paragneiss (pg); Jgs, KTmc and KTpg.

PALEOZOIC

	Paleozoic (includes PJ): greenschist to lower-amphibolite facies rocks (ml) and undifferentiated metamorphic rocks (m); DŦrml, PJml and PPm.

PROTEROZOIC

	Proterozoic: Paragneiss (pg); LPpg.