



GEOSCIENCE MAP 1991-2
**GEOLOGY OF THE
COWICHAN LAKE AREA**
NTS 92C/16

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COMPILATION BY N.W.D. MASSEY
SCALE 1:50 000
KILOMETRES 0 1 2 KILOMETRES

JURASSIC(?) WOOD FORMATIONS	INTRUSIVE ROCKS	SYMBOLS
WFDW1 FERRUGINOUS-REDDISH (A) (FERRUG, quartz-ferruginous) (F), hambleton-ferroporphyr (D), dolite, rhyolite (C)	Geological contact (defined, approximate, assumed, transgressive)	Level of drill covered area
EARLY TO MIDDLE JURASSIC TERRACE PLUTONIC SUITE	Bedrock outcrop within drill covered area	Bedrock outcrop, indicated, outturned
U1 Diolite, granodiorite, quartz diorite often with abundant xenoliths, gneiss	Bedding estimated from pillows (indicated)	Stability and cleavage (indicated, vertical)
LATE TRIASSIC MOUNT BUTTLE GABBRO	Secondary schistosity (indicated, vertical)	Lineation (plunge indicated)
U2 Gabbro and diorite occur with Karmutsen Formation: dolomite, gabbro and flower gabbro	Area of minor folds (plunge indicated)	Fault (overturning side and dip indicated (defined, approximate, assumed))
QUATERNARY	Reverse and thrust faults with dip indicated (both indicated assumed side (defined))	Active (both plunge indicated)
Q1 Unconsolidated glacial till and poorly sorted siltstone	Syncline (both plunge indicated)	
UPPER CRETACEOUS MOUNTAIN GROUP		
UK1 PACIFIC FORMATION: argillite, siltstone, shale and minor sandstone		
UK2 BENTON FORMATION: boulder and pebble conglomerate, sandstone and minor siltstone		
LOWER JURASSIC SQUAMISH GROUP		
J1 Ferruginous basalt, andesite, dacite, tuff, sandy tuff, crystal tuff, lignite tuff and breccia, with minor argillite and sandstone		
UPPER TRIASSIC VANCOUVER GROUP		
U3a QUATERS AND PARSON BAY FORMATIONS (undifferentiated): massive and bedded mudstone, sandstone with limestone clasts, lignitic siltstone, argillite, and rhyolite, limestone, basaltic siltstone, minor tuff		
U3b KANAKTOK FORMATION: shaly and massive basaltic flows, hypabyssal and hydrothermal breccia, goniatitiferous flows and breccia		
MISSISSIPPIAN TO LOWER PERMIAN RIVERBANK GROUP		
PPM1 MOUNT SABLE FORMATION: massive shaly limestone, bedded limestone, marble, shales, shaly argillite and siltstone		
MISSISSIPPIAN TO PENNSYLVANIAN		
PPM2 PENNSYLVANIAN FORMATION: massive shaly limestone, shaly, shaly argillite and siltstone		
MIDDLE TO UPPER DEVONIAN SICKER GROUP		
UDM MCGILLICRAIG WEDGE FORMATION: thickly bedded tuffite and fibric tuffite, ferruginous-oxidized tuff, hematitic, lignite tuff and breccia, mylonite, dolite, laminated tuff, and chert		
DN LIGNITE FORMATION: greenish-red-brown phytic, argillaceous, breccic and lignite tuff, massive and pillowed flows, massive tuffite and fibric tuffite, laminated tuff, and chert		
DL DUCK LAKE FORMATION: shaly and massive basaltic flows, monolithic basalt breccia and olive breccia, chert, jasper and shaly tuff, massive dolite and mylonite		

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Plus unpublished material from T. Eggard.

