



PRELIMINARY SERIES

- LEGEND**
- PLEISTOCENE AND RECENT SALISH SEDIMENTS (8)**  
**SHORE, DELTAIC, AND FLUVIAL DEPOSITS:** gravel, sand, silt, clay, peat; 8a, alluvial-fan deposits; 8b, dune sand
- 7 VALLEY ALLUVIUM AND COLLUVIUM:** boulders, gravel, stony loam, sand, silt, clay (thickness generally less than 5 feet). Includes patches of 6 and 8
- 6 CAPILANO SEDIMENTS (5, 6)**  
**TERRACED FLUVIAL DEPOSITS:**  
 6a, Deltaic deposits: gravel and sand commonly underlain by silt and clay  
 6b, Floodplain and channel deposits: gravel, sand, minor silt (shown only where averaging 5 feet or more in thickness; thinner deposits included in unit 7)  
 6c, Alluvial-fan deposits; poorly sorted gravel
- 5 MARINE DEPOSITS (INCLUDING GLACIO-MARINE):**  
 5a, silt, clay, stony clay } thickness few inches to 30 feet  
 5b, sand, pebbly sand, sandy gravel; generally underlain by clay }  
 5c, gravel, sand; in spits, bars, etc. }  
 5d, varied stony, gravelly, and sandy marine-veneer deposits } thickness generally less than 5 feet  
 5e, varied stony, sandy, loamy, and clayey marine-veneer deposits }
- 4 VASHON DRIFT (3, 4)**  
**GLACIO-FLUVIAL DEPOSITS:** gravel, sand; lenses of till; 4a, hummocky, knob-and-kettle, and ridged deposits (eskers shown by symbol); 4b, terrace and pitted terrace deposits
- 3 GROUND MORaine DEPOSITS:** till; lenses of gravel, sand, and silt; 3a, till, alluvium, and colluvium
- 1 QUADRA SEDIMENTS (1)**  
 Sand; minor gravel, silt, peat, peaty soil, driftwood
- 2** Gravel, sand, silt, clay, till; beneath Vashon ground moraine, relation to Quadra not known

- Areas of bedrock outcrop and of outcrop interspersed with patches of thin overburden . . . . . R
- Bedrock outcrop in area of overburden . . . . . X
- Geological boundary (approximate) . . . . . - - - - -
- Limit of geological mapping . . . . . - - - - -
- Glacial striae (S), grooves (G), stoss-and-lee surfaces (SL), miniature crag-and-tail forms (CT) (direction of ice movement indicated, not indicated) . . . . .
- Crag-and-tail hills . . . . .
- Landslide scar . . . . .
- Scarp between deltas or river terraces . . . . .
- Abandoned channel . . . . .
- Limit of marine overlap (not shown on deltas) . . . . .
- Gravel pit . . . . .

Note: Fractional units (e.g.  $\frac{5d}{3}$ ) are used where the surface map unit averages less than 5 feet in thickness. The upper number applies to the surface unit and the lower number to the principal underlying unit. Thus,  $\frac{5d}{3}$  means that stony, gravelly marine-veneer (unit 5d) extends a few feet below the surface and rests upon ground moraine (unit 3).

Geology by J.G. Fyles, 1956-1957

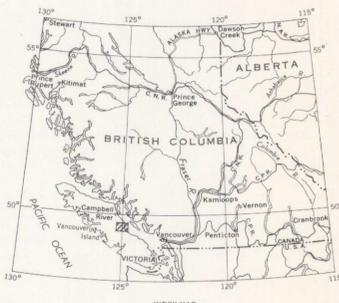
- Main highway . . . . .
- Other roads . . . . .
- Trail . . . . .
- Railway . . . . .
- Power transmission line . . . . .
- Post Office . . . . .
- District boundary . . . . .
- Intermittent stream . . . . .
- Falls . . . . .
- Marsh . . . . .
- Sand . . . . .
- Contours (interval 500') . . . . .
- Quarry or cliff . . . . .
- Height in feet above mean sea-level . . . . .

Cartography by the Geological Survey of Canada, 1960

Approximate magnetic declination, 24° 12' East

In response to public demand for earlier publication, Preliminary Series maps are issued in this simplified form and will be clearer to read if all or some of the map-units are hand-coloured

Air photographs covering this area may be obtained through the National Air Photographic Library, Topographical Survey, Ottawa



PUBLISHED, 1960  
 COPIES OF THIS MAP MAY BE OBTAINED FROM THE  
 DIRECTOR, GEOLOGICAL SURVEY OF CANADA, OTTAWA

MAP 32-1960  
**SURFICIAL GEOLOGY**  
**COURTENAY**  
 COMOX, NELSON, NANAIMO AND NEWCASTLE DISTRICTS  
 VANCOUVER ISLAND  
 BRITISH COLUMBIA

Scale: One Inch to One Mile =  $\frac{1}{63,360}$   
 Miles

