GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

| GROUP | GLACIAL DEPOSITS | | | | MARINE DEPOSITS | MARINE AND NON-MARINE DEPOSITS | | NON-MARINE DEPOSITS | |
|---|---|---|---|---|---|---|---|---|---|
| | GLACIAL | GLACIO-FLUVIAL | GLACIO-LACUSTRINE | GLACIO-MARINE | OFFSHORE | SHORE | ESTUARINE AND DELTAIC | CHANNEL AND FLOODPLAIN | SWAMP |
| SALISH (Post-glacial deposits still being formed; in part overlap Capilano deposits.) | | | | | | Gravel, sand, silt and clay; present day shoreline. (25') | RICHMOND DELTA; sand, silt, silty clay, clayey silt and clay, deposited by Fraser R. (700'+) | FRASER FLOODPLAIN DEPOSITS; silt, silty clay, clayey silt, sandy silt and sand. (50'+) | |
| CAPILANO (Post-Vashon non-glacial deposits. No longer being formed. In part older, in part contemporaneous, in part younger than Sumas.) | | | | | | | MARINE DELTA GRAVEL; gravel deposited by mountain streams.(50'+) | STREAM DEPOSITS; silt, silty clay, organic clay, and sand deposited by lowland streams; gravel and sand by mountain streams. (50'+) | Peat and muck. (35') |
| SUMAS (Post-Vashon glacial deposits related to Valley Ice.) | | ABBOTSFORD OUTWASH; recessional outwash sand and gravel (125'); ice contact gravel, sand, and lenses of till and glacio-marine deposits. (50'+) | | WHATCOM GLACIO-MARINE DEPOSITS; stony clayey silt, stony silty clay, clay, silt, minor sand and gravel. (300') | CLOVERDALE SEDIMENTS; silty clay, silt, clay and minor sand, gravel and poorly sorted till-like mixture. (900'+) | BOSE GRAVEL; gravel and minor sand as spits, bars, beaches, etc., and as wave-washed lag gravel veneers. (25') | CAPILANO GRAVEL; raised marine deltaic and channel gravel and sand. (50'+) Beneath Whatcom glacio-marine deposits in places. May be in part glacio-fluvial. | | |
| | | | | | | SUNNYSIDE SAND; littoral and beach sand. (25') | | HUNTINGDON GRAVEL; gravel and sand. (100'+) Underlies Whatcom. May be equivalent in part to Capilano. | |
| VASHON (Deposits of last glaciation of Continental Ice-Sheet proportion.) | | HANEY OUTWASH; recessional outwash sand and gravel. (100'+) | | NEWTON STONY CLAY; poorly sorted till-like mixtures, stony clayey silt, and minor silt, clay, sand and gravel. (200'+) | | | | | |
| | SURREY TILL; sandy to silty till and sub-stratified drift. (75') | | | | | | | | |
| | | MARYHILL OUTWASH; advance outwash gravel, sand and minor till lenses. (200') | | | | | | | |
| | EROSION INTERVAL, considerable relief developed on underlying deposits. | | | | | | | | |
| SEMIAMU (Deposits related to glaciation. Missing in much of area.) | | SEMIAMU SEDIMENTS; gravel and sand. (25'+) | SEMIAMU SEDIMENTS; clay, silt, and varve-like clay and silt.(150'+) | | | | | | |
| | SEMIAMU TILL; sandy to silty till and sub-stratified drift. (60') | | | | | | | | |
| | EROSION INTERVAL, considerable relief developed on underlying deposits. | | | | | | | | |
| QUADRA (Intertill, probably interglacial sediments.) | | | | | SAPPERTON SEDIMENTS; sand, silt, gravel, silty clay, and poorly sorted till-like mixtures. Age uncertain, may be equivalent of Cloverdale sediments. (40'+) | | COLEBROOK GRAVEL; gravel and sand, deltaic, channel and floodplain deposits. (85') | | |
| | | | | | | | NICOMEKL SILT; sand, silt and minor gravel, at least in part marine. (110') | | |
| | | | | | | | STREAM DEPOSITS; sand, silt, clay and minor gravel in lowland areas; gravel, sand, silt, and minor silty clay and clay in mountainous areas. (250'+) | | |
| | | | | | | | | POINT GREY BEDS; sand, silt and peat. (60') Forms part of stream deposits. | |
| SEYMOUR (Deposits related to glaciation.) | | LYNN OUTWASH; gravel and sand. (25'+) | SISTERS VARVED CLAY; varve-like clay, silt and sand. (500'+) | GLACIO-MARINE DEPOSITS; indicated in drill-holes. Age uncertain. | | | | | |
| | SEYMOUR TILL; silty to clayey till and sub-stratified drift. (60') | | | | | | | | |
| | CLAY, SILT, SAND, GRAVEL, TILL, AND GLACIO-MARINE DEPOSITS; Probably glacial, interglacial, and pre-glacial origin. Exposed only in drill-holes. (1,000'+) | | | | | | | | |
| TERTIARY | SANDSTONE, SILTSTONE, SHALE, CONGLOMERATE, AND MINOR VOLCANIC ROCKS. (10,000'±) | | | | | | | | |
| PRE-TERTIARY | GRANITIC AND ASSOCIATED ROCK TYPES. | | | | | | | | |

*(From J. E. Armstrong, 1957).*

Numbers are maximum thicknesses in feet.
*To accompany Bulletin 52, by F. J. Wagner*
*Cartography by the Geological Survey of Canada, 1959*

Table I. Pleistocene and Recent formations, lower Fraser Valley area, British Columbia.

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