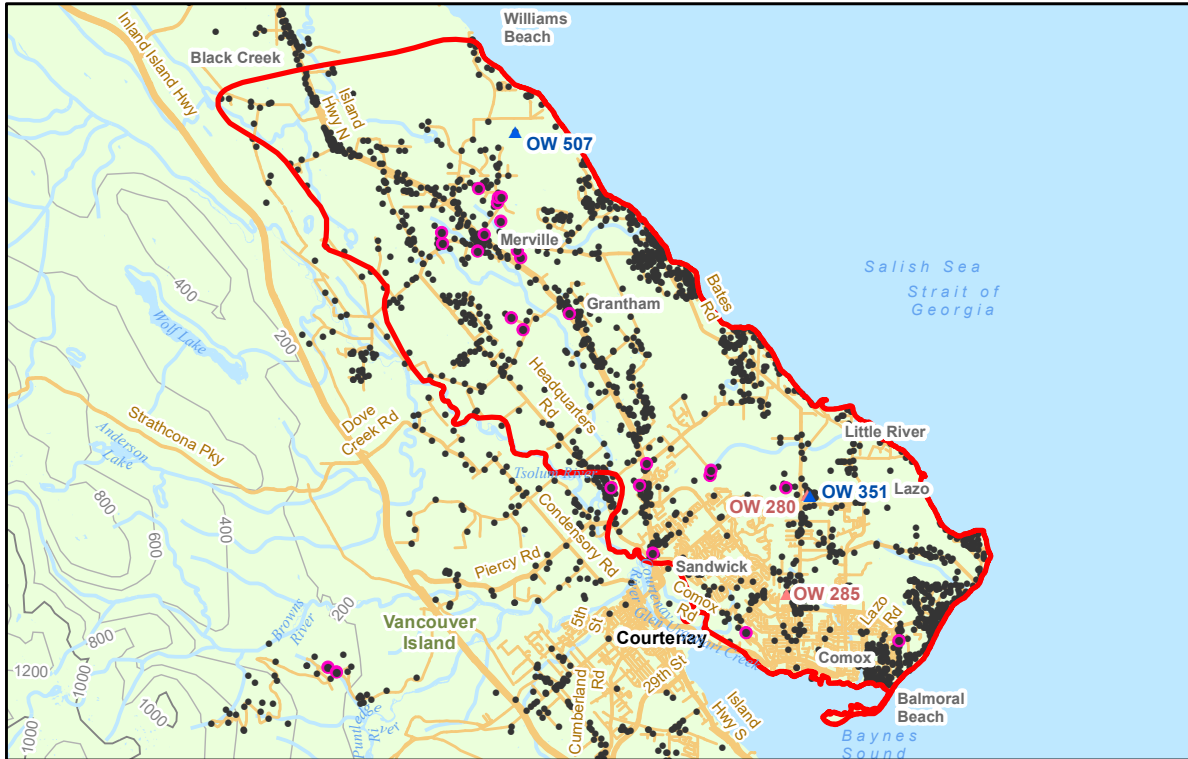
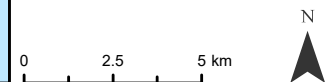




Legend

- Registered Water Well - Artesian
- Registered Water Well
- ▲ Active Observation Well
- ▲ Inactive Observation Well
- Aquifer Boundary



Aquifer Description (Mapping Report - 2023):

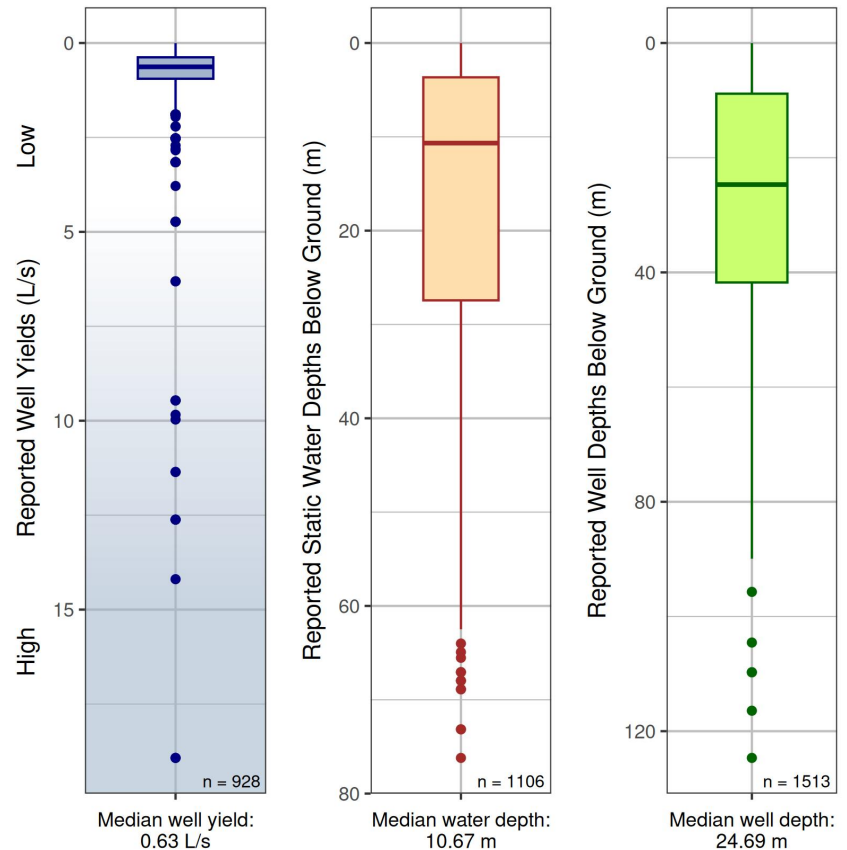
Unconfined glacio-fluvial outwash or ice contact sand and gravel aquifer generally formed near or at the end of the last period of glaciation (sub-type = 4a).

Aquifer Details

Region	West Coast
Water District	Nanaimo
Aquifer Area	155 km ²
No. Wells Correlated	1525
Vulnerability to Contamination	Moderate
Productivity	Unknown
Aquifer Classification	Unknown
Hydraulic Conductivity *	Unknown
Transmissivity *	Unknown
Storativity *	Unknown
No. Water Licences Issued to Wells	6
Observation Wells (Active, Inactive)	351, 507, 280, 285

* min - max

For Hydraulic Connection see [guidance document](#)



Disclaimer: Use of information from Aquifer factsheets (accessed by BC government website) is subject to limitation of liability provisions (further described on that website). That information is provided by the BC government as a public service on an "as is" basis, without warranty of any kind, whether express or implied, and its use is at your own risk. Under no circumstances will the BC government, or its staff, agents and contractors, be responsible or liable to any person or business entity, for any direct, indirect, special, incidental, consequential or any other loss or damages to any person or business entity based on this factsheet or any use of information from it.

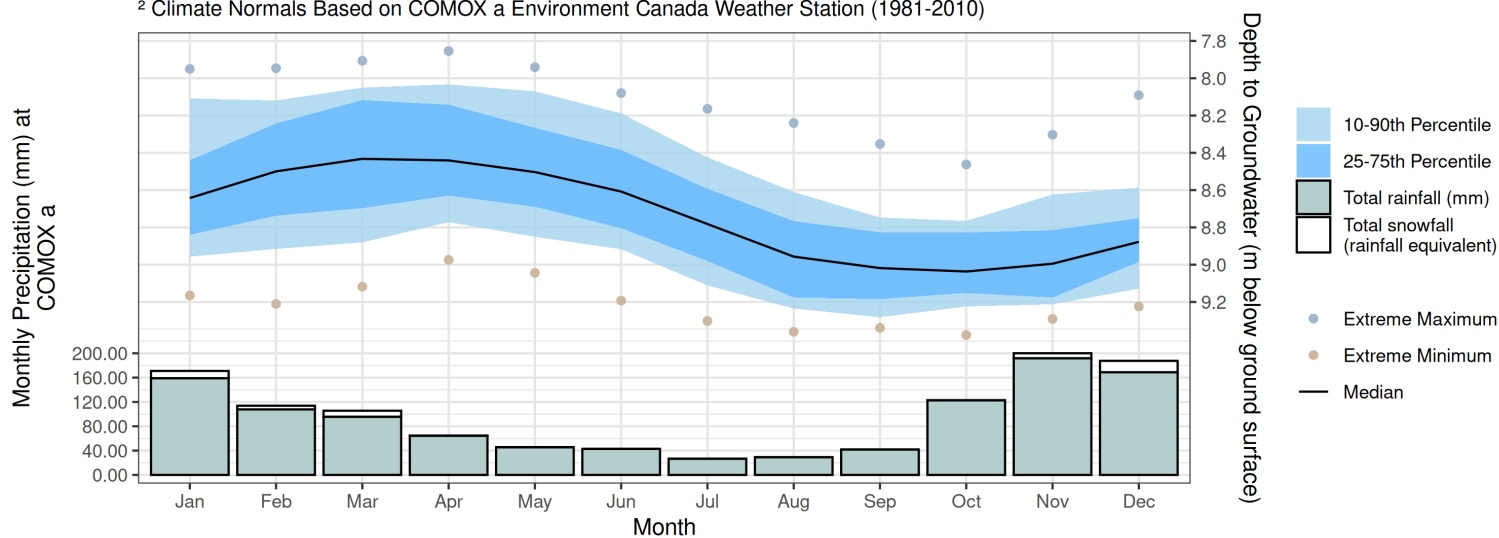
Detailed methods for all figures are described in the companion document ([Aquifer Factsheet - Companion Document.pdf](#)).

Factsheet generated: 2025-03-26. Aquifers online: <https://apps.nrs.gov.bc.ca/gwells/aquifers>.

Monthly Groundwater Level¹ with Precipitation from Climate Normals²

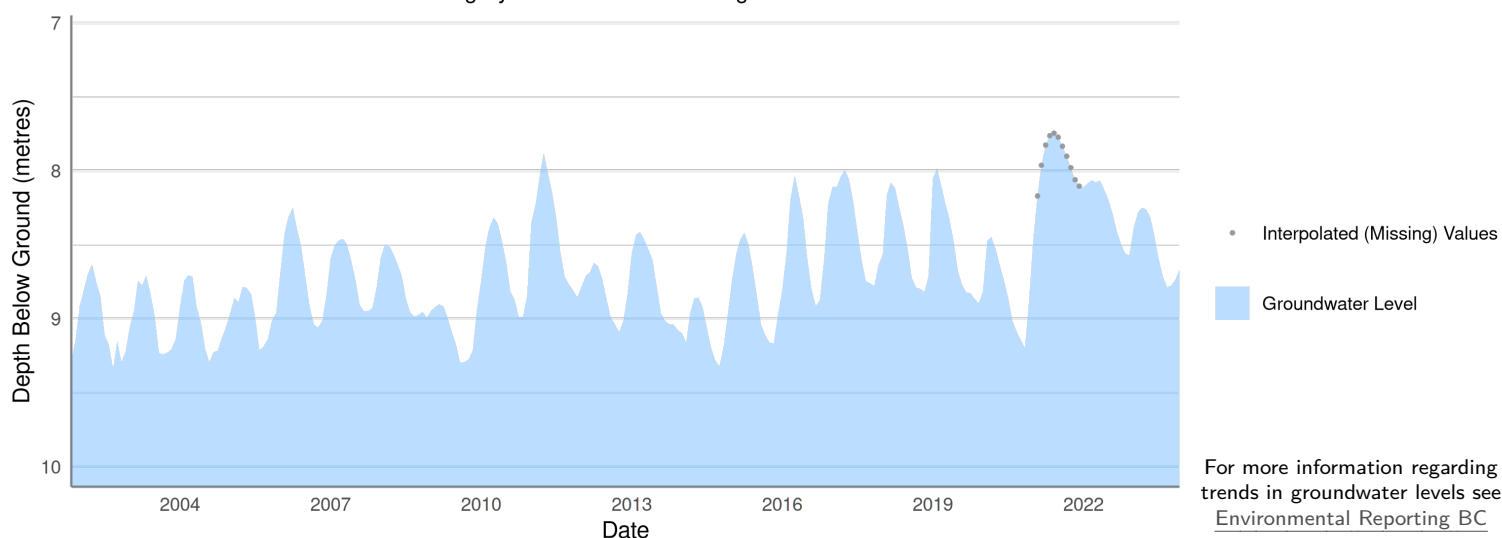
¹ Full Monthly Water Level Summary (24 years of data; 2001-2025)

² Climate Normals Based on COMOX a Environment Canada Weather Station (1981-2010)



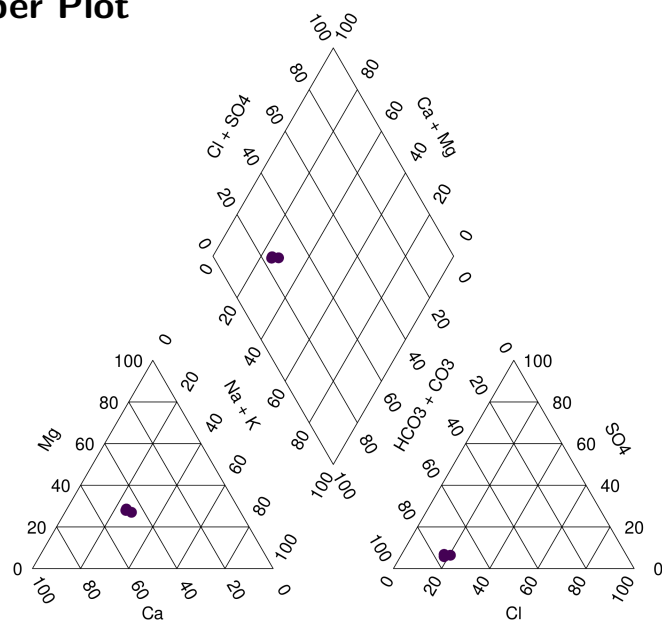
Groundwater Levels and Long-term Trend

Category: Stable and/or Non-Significant



For more information regarding trends in groundwater levels see [Environmental Reporting BC](#)

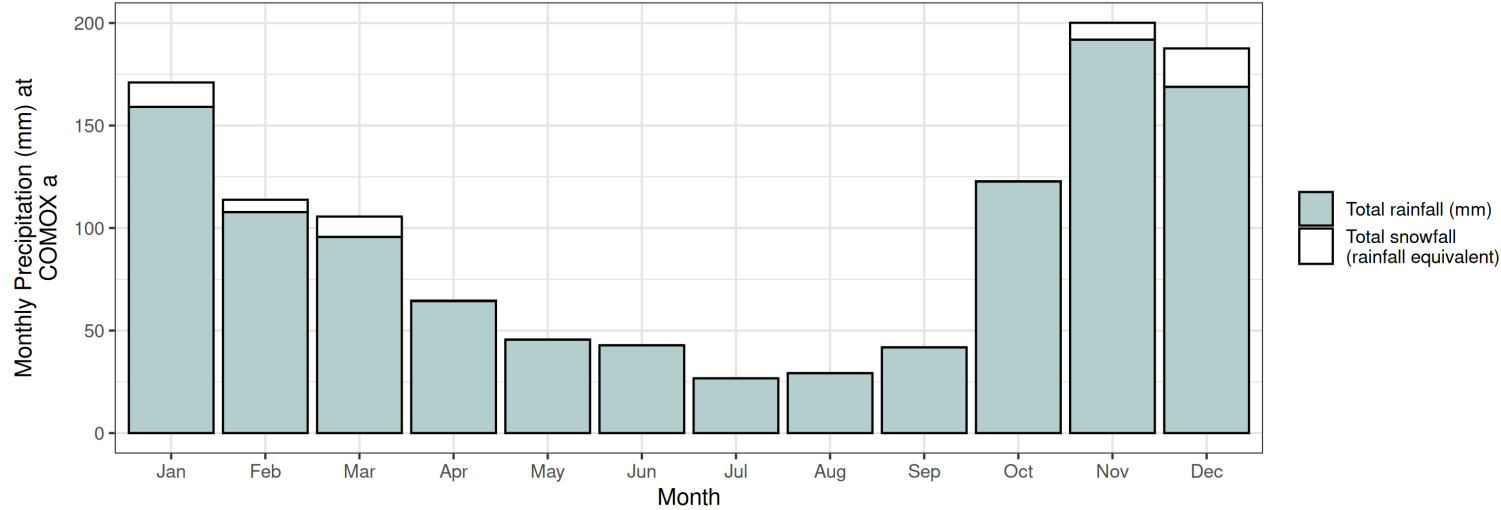
Piper Plot



The groundwater samples are typically of the Ca-Mg-Na-HCO₃ & Ca-Mg-Na-HCO₃-Cl type. Ca & Mg are the dominant cations, which indicates a less evolved/short flow path recharge area type of groundwater. The fact that HCO₃ is the dominant anion shows the source is primarily recent precipitation in the sand and gravel aquifer #408. Na and Cl enrichment could be attributed to anthropogenic activities and/or ion exchange reaction. For EMS water chemistry data, see [EMS ID E248816](#).

Monthly Groundwater Level¹ with Precipitation from Climate Normals²

¹ No Monthly Water Level Summary (only 4 years of data; 2021-2025)
² Climate Normals Based on COMOX a Environment Canada Weather Station (1981-2010)



Groundwater Levels and Long-term Trend

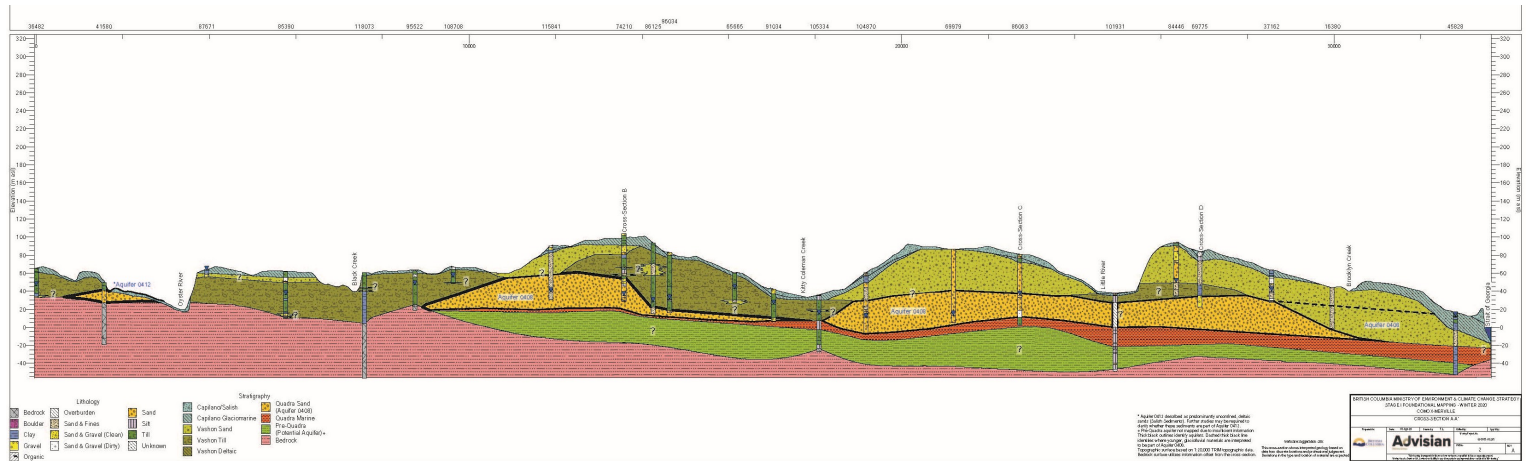
Graph not available
(Not enough data)

For more information regarding trends in groundwater levels see [Environmental Reporting BC](#)

Piper Plot

Graph not available
(insufficient chemistry data)

Cross-Section



Surficial materials overlying Aquifer 0408 vary spatially from permeable Salish and Vashon sediments to low permeability glaciomarine Capilano sediments and Vashon till. A thicker unit of lower permeability Vashon till appears to cover Aquifer 0408 north of Kitty Coleman Creek, in the northern portion of the aquifer, as well as west of Portuguese Creek. Between Kitty Coleman Creek and Little River, the overlying materials are largely permeable, while south of Little River, the overlying materials are more variable and may include locally extensive lenses of lower permeability material.

Reference: Hinnell, A.C., Lengyel, T., Funk S. P. and Z.M., Hammond, 2020. West Coast Region Foundational and Stage II. Detailed Aquifer Mapping Studies: Port McNeill, Malcolm Island, North Campbell River, Quadra Island and Comox-Merville Study Areas. Water Science Series, WSS2020-04. Prov. B.C., Victoria B.C.