

LANGDALE WATER SYSTEM BACKGROUNDER



CONTEXT

The Langdale Water System provides water to the community of Langdale, located within Electoral Area F (West Howe Sound). Langdale is at the southernmost point of the lower Sunshine Coast, at the entrance of Howe Sound. This water system is located on the territory of the Skwxwú7mesh Úxwumixw.

The Langdale Water System was incorporated into the SCRD's Regional Water Service in 1971 and currently operates as an independent system, not connected to any other water systems. The Langdale well system is located on land owned by the Ministry of Transportation and Infrastructure (MOTI) and leased by BC Ferries.

WATER SOURCE

The Langdale Water System draws water from a single source, Aquifer 552, through the Langdale Well. Aquifer 552 is a confined sand and gravel aquifer and lies below Port Mellon, Williamsons' Landing, Granthams Landing, Soames, Hopkins Landing, and Gambier and Keats Island. The aquifer lies between layers of silt, silty sand, and till, which lowers the risk of groundwater contamination.

SUPPLY INFRASTRUCTURE

The Langdale Water System provides potable water to 223 properties and the BC Ferries Langdale Terminal. This system consists of one 44.2 metre deep well, drilled in 1971. Raw well water is treated through chlorination to kill bacteria and viruses, and is then pumped to the Langdale Reservoir that flows through a gravity-fed watermain to each water user. In 2021, the Langdale Well supplied over 60 million L of drinking water.

FUNCTIONALITY

The Langdale Water System is currently working at or below its designed capacity, and typically does not go past Stage 2 Water Conservation Regulations during high-demand summer months. Upgrades were completed to the Langdale Well infrastructure in 2020/2021 when the SCRD replaced the 50-year-old pump and motor.

The SCRD identified the Langdale Well site as a viable location to draw additional groundwater from Aquifer 552. The Langdale Well Field Expansion, pending a water licence from the Province, would add two production-sized wells to the site. The expanded Langdale Water System could be connected to the Chapman Water System, the SCRD's largest water system, which would bring more water supply from Langdale to Halfmoon Bay.



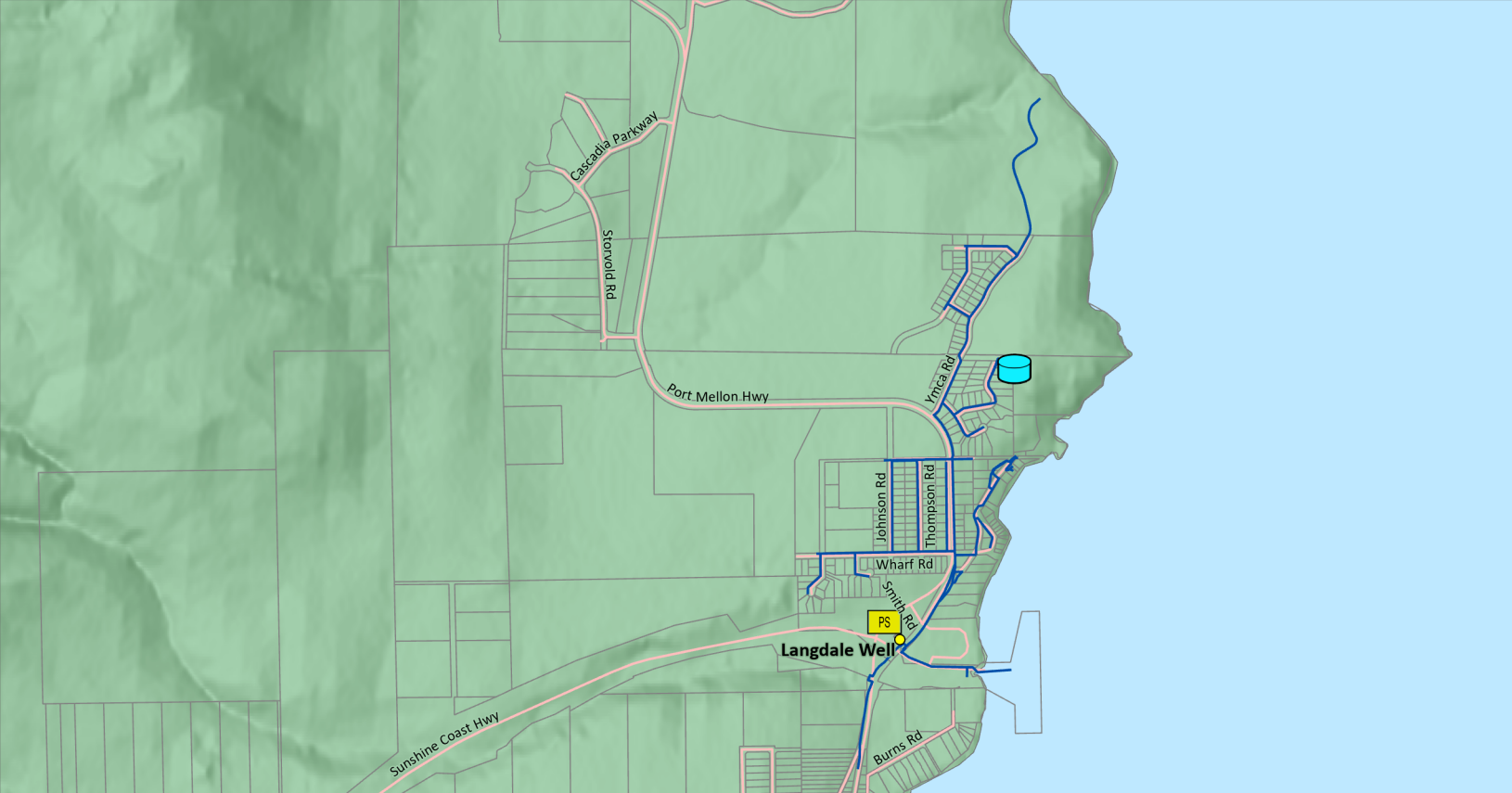
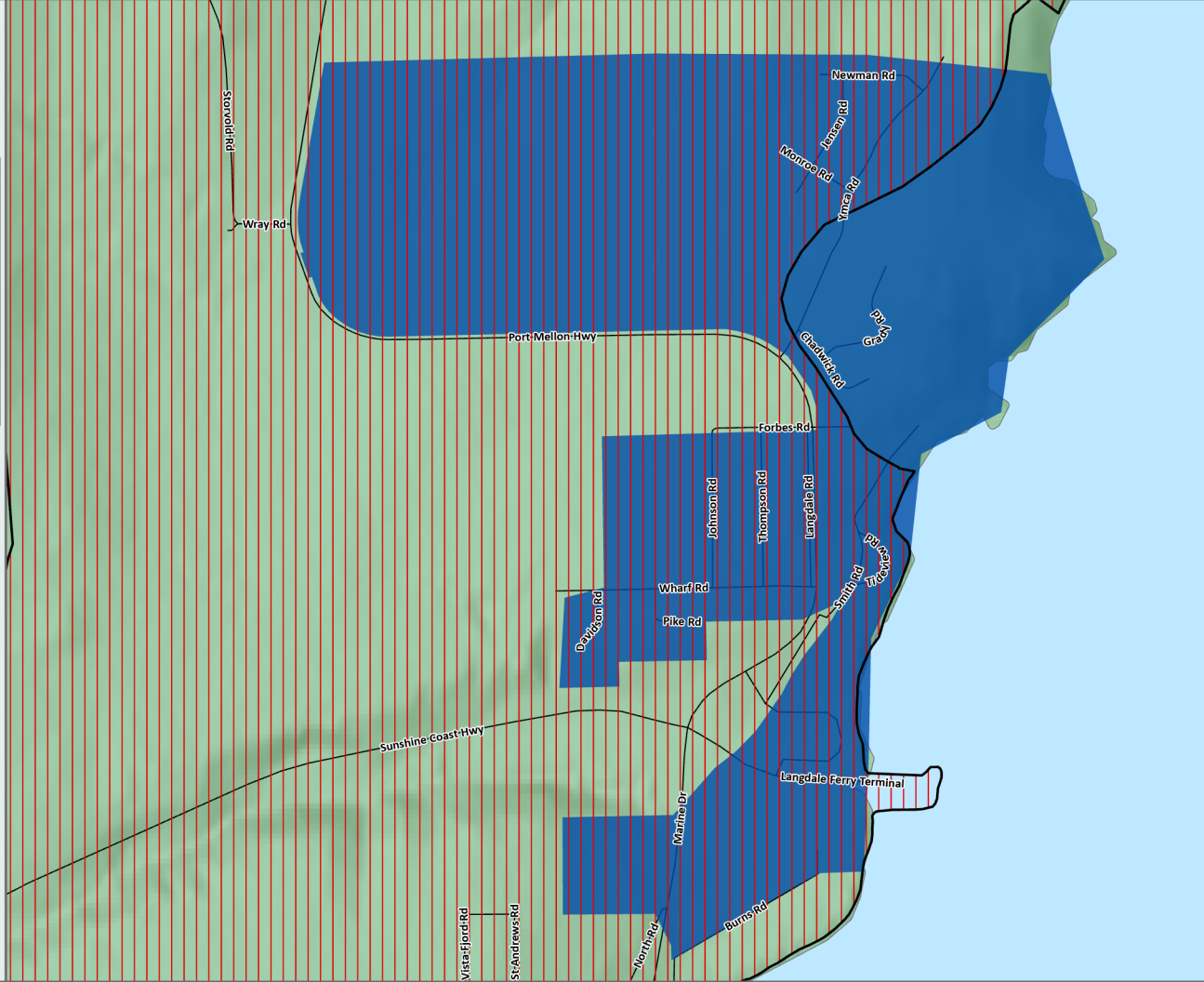
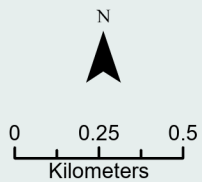
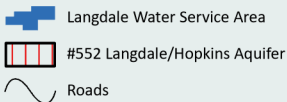
FAST FACTS

Water Source:
Aquifer 552
(Langdale Well)

**Number of
Connections:**
223

**Total Water
Distributed:**
60 million litres/year

Context Map Langdale



Langdale Water System Infrastructure

