



building communities together

2025 Business Plan Pine Valley Sewer (1772)

*Kelly McDonald
Manager of Utilities*

Working in partnership with communities large and small to offer local, sub-regional, and regional services to ensure that the Cariboo Chilcotin is a socially, economically, and environmentally desirable region.

Department Services

- The Cariboo Regional District (CRD) owns and operates the Pine Valley Community Sewer System.

Background Information

- The Pine Valley Sewer function was established in 1979 and now services 71 land parcels as well as the Williams Lake Airport area.
- The system is comprised of two sewage lagoons, a mechanical pre-treatment plant, one lift station and associated sewer piping.
- Regular inspection and maintenance to system components is undertaken to ensure continuous operations.

Operations

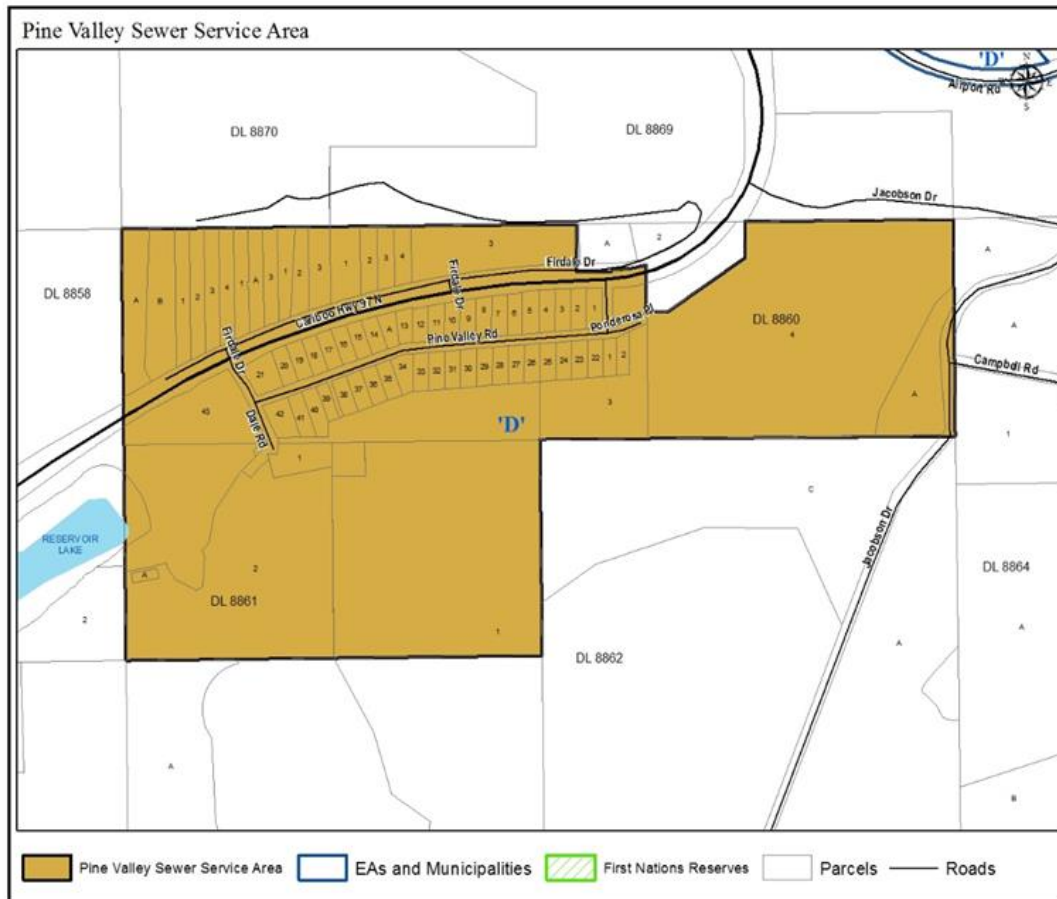
Function authority is provided by the Pine Valley Specified Area Sewer Management Bylaw Nos. 1806 & 4418.

Bylaw 5366 authorizes the CRD to cover the costs of the service by way of taxation of assessed property, parcel tax and user fees.

No parcel tax is currently being collected for this location.

The current residential user fee is \$617 per year.

As Electoral Area D is the only stakeholder, and the *Local Government Act* requires more than one vote, the entire Board is responsible for the governance of this service.



Significant Issues & Trends

The pre-treatment plant that services the Pine Valley Sewer System has passed its expected lifespan, is handling more flow than it was originally designed for and is showing signs of deterioration. The effluent irrigation, using the treated lagoon water, requires more stringent guidelines for compliance and an alternative solution should be investigated. Installing equipment to monitor flow from the Williams Lake Airport is required to calculate their contribution to the total. This should be installed near the point of entry so that infiltration of the main line is considered.

Business Plan Goals, Rationale & Strategies

- Goal:** A reliable method of flow monitoring near the Williams Lake Airport area effluent *point of entry*.

Rationale: The CRD currently has a service agreement with the City of Williams Lake that defines charges for use of the Pine Valley Sewer System to service the Williams Lake Airport. Increased development (Fire Centre) and passenger numbers has resulted in significant flows to the sewer system. The terms and conditions of the agreement should be reviewed to ensure fees and charges are adequate. An accurate way to measure flow will allow this.

Strategy: Have engineered drawings done for the CRD to move forward with the construction of a flow measurement installation for the Williams Lake Airport effluent at the point of entry.
- Goal:** Design for the Pine Valley Pre-Treatment Plant replacement.

Rationale: Advance toward a shovel ready design for grant applications. Having this step pre-planned will ensure we are prepared when the appropriate grant opportunity is opened for application. If it is deemed unnecessary due to potential lagoon options, drawings for a bypass will be prepared instead.

Strategy: Initiate a feasibility study for replacement/refurbishment options and high-level cost estimates. Once an option is chosen, move forward with a shovel ready design.
- Goal:** Replace one submersible pump at Pine Valley Lift.

Rationale: Pumps are at end of life, replacing one and rebuilding the old one will allow a seamless transition. This will also allow us to have a spare pump in an emergency.

Strategy: Purchase a new pump, have the old pump rebuilt.





Overall Financial Impact

The projected capital reserve as of December 2024 is \$26,250.74. No parcel tax is currently being collected for this location.

The current residential user fee is \$617 per year and may increase in 2025 to match the growing needs of this service and inflation.

The studies and designs specified in this Business Plan, as with all CRD Utilities, may or may not proceed without appropriate grant funding approvals.