



building communities together

2023 Business Plan 108 Mile Water (1884)

*Peter Hughes
Manager of Environmental Services*

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 108 Mile Community Water System.

Background Information

- The 108 Mile Water function was established in 1988 and approximately 1,400 land parcels are taxed.
- Currently, 1142 developed land parcels are connected to the water system and charged annual user fees.
- The system is comprised of two wells, a water treatment plant, associated booster pumps, distribution piping, fire hydrants and three reservoirs.
- New water reservoirs were constructed in 2010 at a cost of \$800,560.
- A new water treatment plant to remove manganese from the groundwater source began construction in 2017 and was commissioned in 2018. The treated water now meets the new Maximum Allowable Concentration of 0.12 mg/L for manganese.
- In addition to meeting domestic/commercial needs, the system provides an adequate quantity of water to aid community fire protection.

Operations

The water quantity and quality are tested on a regular basis and adjustments to the system are made as required. Regular inspection and maintenance to the system

The Cariboo Regional District is a signatory on the Province of BC/UBCM Climate Action Charter and has committed to continuing work towards carbon neutrality in respect of corporate operations.

One issue is poor communication between well pumps and reservoirs due to an ageing infrastructure.

Business Plan Goals, Objectives & Strategies

Goal: New SCADA system for 108 Mile Ranch water system.

Rationale: The current SCADA system is in excess of 20 years old and is in need of replacement. A new SCADA system will provide more reliable communication between the new WTP and other system components such as well pumps and reservoirs.

Strategy: New SCADA system study for 108 Mile Ranch water system.

Goal: Plan for future expansion of distribution and booster station for proposed Moneeyaw Road subdivision.

Rationale: Looping the distribution system for the proposed subdivision and construction of a booster station will improve water pressure in the area as well as service the new subdivision.

Strategy: Prepare a conceptual design for the improvements.

Overall Financial Impact

Project funding through local property parcel taxes was obtained through a public assent process and grants.

The system had numerous debt issues that retired in 2018.

Taxation will be collected by way of a parcel tax of \$220 per year beginning in 2023.

The current residential user fee was set at \$284 per year in 2017; this is adequate to maintain the integrity of the system.

The projected capital reserve as of December 2022 is \$780,605. Currently the amount to a yearly debt payment (principal and interest) for the new treatment plant is \$175,000. Capital reserves are being contributed from the function on an annual basis, \$150,000 per year.