

## HAGENSBORG WATERWORKS DISTRICT

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### Bringing you up to date...

Long term Capital Development Budget projected with updated costs...

- complete the Point Of Entry Water Treatment Systems installations - approx. \$467,500
- replace the rest of the pipeline/hydrant assemblies, both east and west, if local labour and equipment is used; updated materials price quote included - approx. \$1.7M. This includes the pipe & fittings, as well as the engineering
- replace the fire truck with a basic pumper truck was expected to be approx. - \$350,000

To date we have saved

- \$281,694 for “Waterworks Capital Development”, ie: Point Of Entry Water Treatment Systems and/or new pipeline
- \$330,563 for fire departments “Renewal Reserve”, ie: a fire truck and/or larger service line for better fire flow and fire hydrants to replace the old stand pipes

Over the next six months we have significant decisions to make. If approved by the Health Authority for the community wide purification system, will we pursue completion of the Point of Entry system installations in everyone’s homes? Or should we address the aging pipelines delivering that water?

## WATER SERVICE

### [Compliance with the Drinking Water Protection Act & Regulations - update](#)

Over the course of the pilot project, extensive data has been collected regarding the domestic POE systems including performance, maintenance, and the monitoring needs that allow for a realistic assessment of the costs and logistics associated with full implementation of treatment for all homes in Hagensborg. We have recently extended the pilot for another 6 months for several reasons:

- The new well has only recently been tested for chemicals, required before we could connect it to the distribution system. Vancouver Health Authority reports the chemical test results show “no concern” and we are awaiting approval to connect it to the distribution system.
- With Department of Fisheries and Ocean’s cooperation, a real time turbidity meter has been installed in the intake, allowing us warning when the water has become muddy. Once the well is online, we will be able to switch to well water backup during turbidity events, preventing the sand & debris from entering the distribution system which shuts the POE systems down and turns the water off, and increases maintenance costs.

- With the well online, and the turbidity meter installed, we will be able to install the commercial units and begin their testing.

### Risk Management – for discussion

The Trustees understand that the community members accept risk in just about all aspects of their lives. We understand that it is not feasible nor reasonable to expect to live risk free.

But what is acceptable risk? And how should the limited tax dollars be spent to achieve water quality improvements and “potability”? In addition to the demands of the Drinking Water Protection Act and Regulations, and the scrutiny of the Health Authority, the trustees must consider...

*Pipeline upgrades:* Some of the pipe in the ground was installed 45 - 50 years ago and pipeline replacement is one of the biggest and most expensive upcoming capital expenses. In 1999, trustees approved a project that replaced the old asbestos/concrete primary service line from the dam to the road significantly increasing pressure in the lines for fire flow. They also replaced the old four inch service line on the west side almost to Walker Park Road with an eight inch line. Upgrades were stopped with the announcement of the Drinking Water Protection Act as the trustees began saving the money while seeking an affordable way to comply with regulations.

Today, the pipe in the ground is still in need of replacement and the cost to do so is climbing.

*Dam/Intake repair:* The dam and intake have served well but here again, upgrades and repairs are needed. The trustees are having ongoing discussion with the Department of Fisheries and Oceans to redesign and rebuild the intake which may allow the hatchery to draw water directly from above fish habitat, eliminating contaminants from the wild stock.

## **FIRE PROTECTION**

The District received approval for a final extension for the truck as a primary fire truck by undergoing the very comprehensive pressure and functionality test. This along with strict maintenance has allowed time to continue to save for the truck.

It is confirmed, however, that our fire-truck will reach the end of its life as a primary attack truck in 2016. It will be 30 years old and the Fire Underwriters refuses to recognize a primary truck older than that. The Fire Underwriters, among other things, is who applies the classification that determines your home insurance rates.

Savings for the replacement fire truck is on track to meet projected costs.

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