

March 24, 2020

2020 OPERATOR'S REPORT

PROJECTS COMPLETED IN 2019 AND TO DATE

Generator-2 tie-in to automation

In 2018, an outdoor enclosure was constructed for generator-2. In 2019, we had electricians tie into existing electrical components to allow gen-2 to receive a signal when tanks needed filling and turn-on to power pumps.

Annual fire hydrant service and rebuild

In April 2019, Savary Shores fire hydrants received a full teardown and service. Parts that were worn or defected were replaced. The order in which hydrants were serviced allowed for uni-directional flush of the water system, keeping lines clear of any possible sediment that could occur from groundwater.

Monthly nitrate sampling and monitoring at both wells

For the past year, we have been monitoring our nitrate levels monthly. Results have been documented and applied to a table (available on our website) by the SSID Administrator. Our levels have decreased from that of previous years.

Of the readings obtained in 2019, April saw the highest level of nitrates in well-1 at 4.09 mg/L. 10 mg/L is the Maximum Allowable nitrate level according Canadian Drinking Water Guidelines. We will continue to monitor nitrates on a quarterly basis to ensure levels stay well below 10mg/L. Residents of SSID can help the reduction of nitrates within the groundwater protection zone by following their maintenance plans provided by ROWP septic installers upon installation of permitted septic systems.

Nitrate study

Property owners of 4 neighbouring wells allowed SSID to test for nitrates to draw comparisons with our own results / levels. Nitrate levels of neighbouring wells were found to be minimal in comparison with SSID levels, the highest being 1.46mg/L.

Storage shed improvements

Our storage shed has been wired with outlets and lighting that can be powered with a portable generator. The interior of shed has been painted and contents inventoried.

Water connections

There were 2 new property connections completed in 2019.

Meter replacement schedule

5 of our oldest meters have been replaced with new meters. Extracted meters were sent to Fred Surridge for calibration testing. The meters proved to be 99.4% accurate. The meter replacement schedule has been altered to 2 per year instead of 6 as a result of accuracy testing.

UPCOMING PROJECTS FOR 2020

Generator #2 transfer switch

We will continue fine tuning the tie-in of generato-2 to the existing infrastructure with an alternating transfer switch. The purpose of this addresses safety concerns allowing generators to back up each other should either fail to start. The alternating transfer switch will also contain a timer allowing gen-2 to run primarily in daytime hours and designating gen-1 to night.

Standpipe pits

SSID has 4 standpipes located at various points in the distribution system with the main purpose of flushing “dead ends.” These pits have been identified as confined spaces and will be secured for employee and public safety, as regulated by WorkSafe BC. Custom concrete lids will be installed allowing for operation of valves from the surface, preventing any possible entry to pits.

CONSUMPTION REPORT

In 2019, we pumped just over 1,290,000 imperial gallons, which was an increase of 4.31% from 2018. The highest consumption month in 2019 was August at 326,000 ig. Which was less than August 2018 where just over 384,000 ig was pumped. We saw consumption higher overall in the 2nd quarter 2019 at 359,000 ig vs 292,000 ig in 2018 ,and an overall increase in number of properties using water in 2019.