

Good afternoon I'm Courtney Robertson and I operate the water system for Savary Shores Improvement District. I'm here to report on some of the maintenance and work items that have been carried out since last AGM.

### **#1 Wellhead Seal Inspection**

In September, the Environmental Health Officer Darren Molder had asked that SSID have the outer seal on Well #1 inspected to ensure it was intact, to rule it out as a possible entry point for nitrates. So, on October 29<sup>th</sup> Well Driller Paul Anderson and excavator Eric Ferreria attended Well #1 to inspect external clay seal. Eric Ferreria excavated to expose well casing to a depth of 73 inches where a compacted clay layer was found. The natural seal was found to be intact and not compromised. Bentonite Clay was added and compacted against well casing with surrounding area back filled with native material. 17 bags of bentonite clay were added, bringing clay seal to surface.

### **#2 Gate valves maintenance**

17 gate valves are used throughout the District to isolate sections of pipe, when necessary. During routine maintenance we were able to free the 5 gate valves marked as seized. These gate valves have been put on a more frequent maintenance program, to exercise every 6 months to ensure they stay in good working condition.

### **#3 New Generator #2 enclosure completion and tie-in to automation**

Newport Electric was on site March 13 to install dual relays in the transfer switch panel, connecting generator #2 to controls. #2, or new generator is now connected so it can be controlled by existing automation. In example, when generator #2 is selected on transfer switch panel and float switches in reservoirs calls for water, the new generator will start, turning on pumps to fill tanks.

### **#4 Fire Hydrants**

Annual routine maintenance has been completed for all thirteen fire hydrants in system, April 17 and 18. The order that these fire hydrants are serviced allows for a unidirectional flush at the same time, clearing debris from lines in a systematic order, to clean distribution pipes and improve overall water quality.

### **#5 Water Main Break**

At 1:30 on November 16, I received text from Administrator Janine Reimer regarding a water main break at Manahan Rd and Patricia Crescent. My time of arrival to break site was approximately 2pm.

I closed the necessary gate valves to isolate effected area. Janine notified residents in area of no water due to main break. Gate valve at Patricia Cres and Manahan (valve #12) was closed as far as possible, Hydrant 12 was opened to divert remaining water in system away from main break to assess for repair parts needed. Once break was assessed, parts were gathered from shed to carry out repair. A 2-foot section of pipe was cut out and prepared for a patch with couplings. Once couplings were secure and patch complete, the gate valves were reopened up to allow water through and monitor for leaks. Area of patch and couplings remained dry proving no leaks. Hydrant 12 was shut

down after releasing air that had entered system at break location. Water loss during the event was estimated to be about 34 cubic metres.

The repair was complete at 5:45pm. The next morning, the site was backfilled and compacted by Murray Degraag and Janine Reimer.

### **#6 Meter Replacement**

In 2019 we will start our meter replacement program, 5 meters each year beginning with the meters that have the highest readings on odometers or require immediate attention. The first 5 that will be replaced are as follows:

Lots: 137  
173  
80 / 81  
147  
201

### **#7 Consumption Report**

Total consumption in 2018 was 5,705 cubic metres (=1,255,210 imperial gallons). Highest month of water use in 2018 was August, with 150 residences consuming 1750 cubic metres that month.

This is a slight decrease from 2017 Total consumption of 5,792 cubic metres (=1,274,262 imperial gallons).

Highest month of water use in 2017 was August, with 145 residences consuming 1550 cubic metres that month.