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BOIL WATER ADVISORY - Rescinded

Lyall Harbour Boot Cove Water Service - Saturna Island

March 2, 2019 - The boil water advisory issued on October 16, 2018 for the Lyall Harbour Boot Cove Water Service on Saturna Island is now **RESCINDED**.

The treated water turbidity has stabilized below 1.0 NTU and two consecutive sample sets collected from locations throughout the water distribution system have been analysed and indicated that the water is now safe to consume. The CRD, in consultation with Island Health, have rescinded the advisory.

What caused this issue? The community's water supply comes from two sources – the Money Lake Reservoir and a groundwater spring. Due to the dry weather experienced during the fall of 2018, the groundwater spring source, which is typically low in turbidity, dried up before this event and the source was exclusively the Money Lake Reservoir for an extended period of time. Due to the natural lake turnover process that occurs seasonally, sediments from the bottom of the lake were stirred up. In addition, the sunny weather experienced this fall resulted in increased biological activity in the Lake. This combination resulted in an increase in raw water turbidity. Precipitation in November replenished the groundwater spring source and the raw water source was converted to the spring on November 23. However, the water treatment plant operation still had to be optimized to reduce the treated water turbidity to less than the 1.0 NTU limit required for potable water.

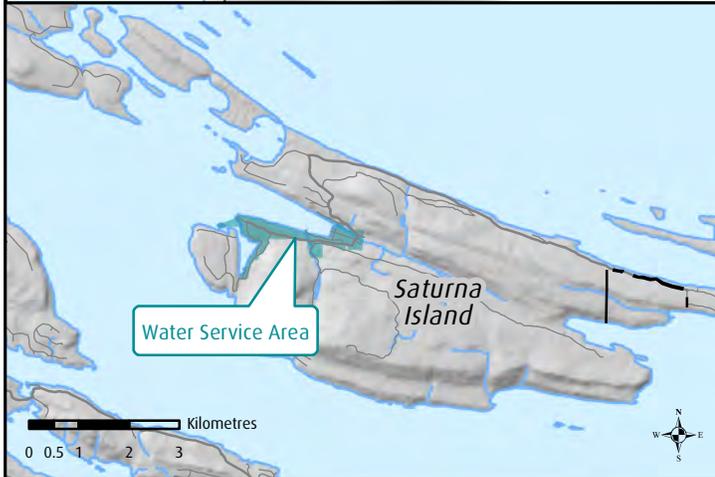
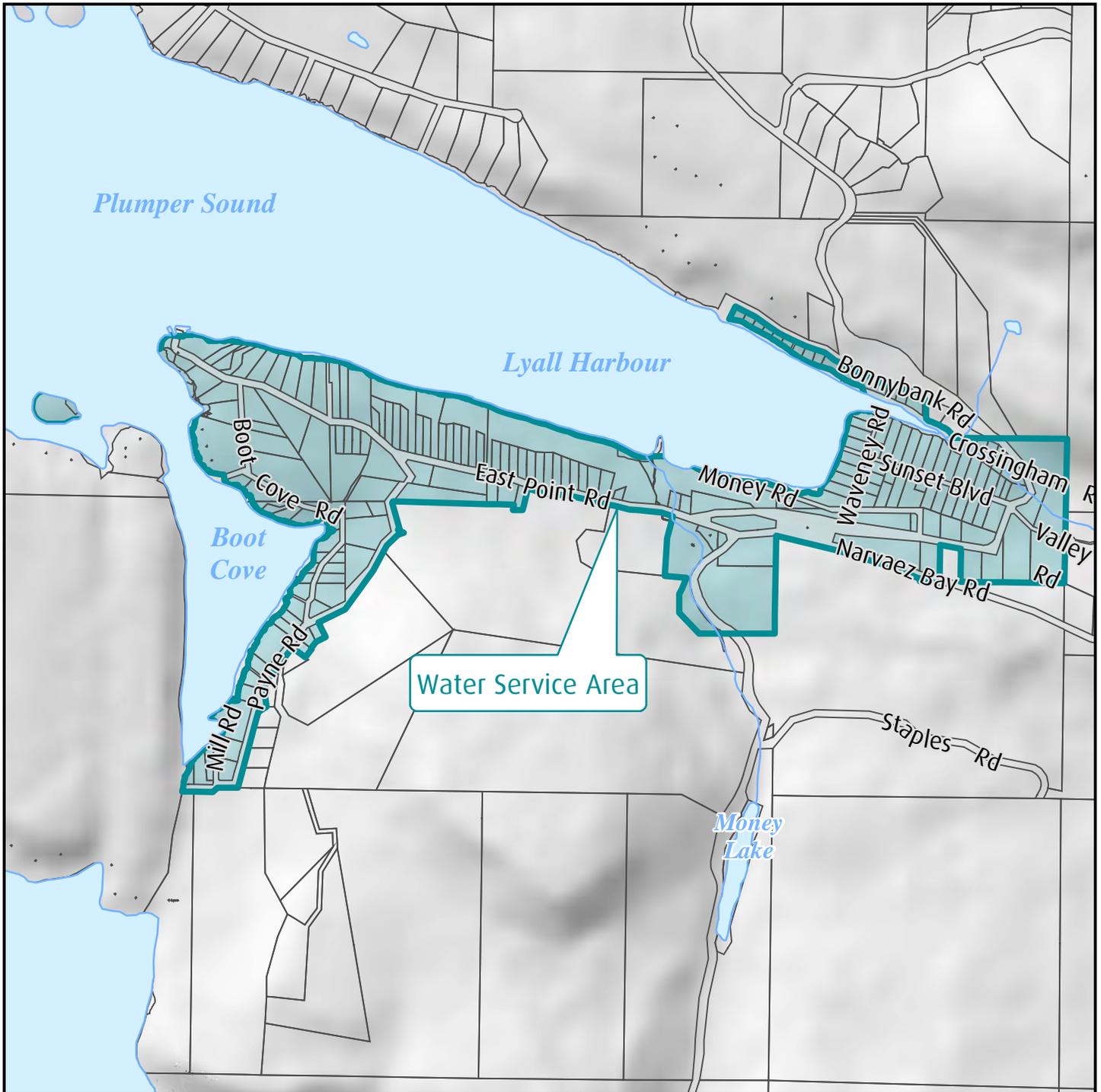
What did the CRD do to mitigate this issue? The CRD took a number of steps to mitigate this issue: Complete flushing of all raw water piping and tanks; replacement of the filter media in one set of filters and augmentation of media in the other set of filters in the water treatment plant; adjusted treatment flow to optimize filtration; and converted from Money Lake raw water to groundwater spring raw water which was made possible by the onset of winter precipitation. The CRD completely replaced the media in the second set of filters which were found to be 'short-circuiting' flow, impacting the effectiveness of the filtration process. Several valves were also replaced in the treatment plant to ensure appropriate isolation of treated water. Finally, a set of polishing filters were installed following the multi-media filters to remove the fine particles that are currently in the raw water. These polishing filters are in place and will be utilized in an emergency if the turbidity following the multi-media filters exceeds 1.0 NTU in the future.

For more information on boil water advisories, please visit: www.islandhealth.ca/boilwater

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Lyall Harbour / Boot Cove Water System



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1:16,000
0 50 100 200 300 Metres

UTM Zone 10N NAD 1983



DISCLAIMER

This map is for general information only and may contain inaccuracies.

June 2018 | LS_LyallHarbourBootCoveWater_Location.mxd | helpdesk@crd.bc.ca