

Report No.: 2020-02-10
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Meeting Date: February 27, 2020
File No.:



To: Chair and Members
Lambton Area Water Supply System Joint Board of Management

From: Clinton Harper
General Manager

Subject: WTP Reservoir Update

Recommendation

"That the LAWSS Joint Board of Management **RECEIVE** as information."

Background:

During rounds the OCWA Operator noticed water on the surface of the rear service roadway between the treatment plant and the reservoir. Testing of the water on the roadway indicated the presence of chlorine at a level similar to what is usually observed at a watermain break. A reservoir leak was assumed and appeared to be coming from the first control joint east of the southwest corner of the structure.

The following week, divers entered the reservoir over two days and completed a preliminary internal inspection of the area adjacent to the exterior leak. The dive inspection confirmed the water found on the roadway originated from the reservoir and the leaks location in the structure wall. The preliminary internal inspection report and video were provided to GM Blueplan Engineering and a workplan was requested to complete a reservoir condition assessment. GM Blueplan is an Engineering Consultant familiar with reservoir repairs of similar type.

Comments:

The WTP reservoir will need to be offline for 1.5 weeks beginning on Monday, March 2, 2020. During the time the reservoir is offline, the WTP will be operating under a modified operational narrative with approx. 65 ML reduced capacity. OCWA and LAWSS staff at the WTP will need to be provided an alternative source of potable water for the duration of this work. Due to Sarnia Yacht Club's (SYC) proximity to the WTP, an alternative supply of potable water will also need to be provided to the SYC for the duration of this work. LAWSS staff have been in contact with representation at the SYC and the City of Sarnia Public Works Department to coordinate the supply of potable water. The Ministry of Environment Conservation and Parks and Lambton Public Health are also aware of the situation and will be kept up-to-date on how work is progressing.

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Consultation:

The report was prepared in consultation with OCWA Operational Staff, GM Blueplan, Ministry of Environment Conservation and Parks, City of Sarnia Public Works and Sarnia Yacht Club.

Financial Implications:

The LAWSS Board approved \$50,000 from reserves to drain the reservoir, conduct a structural investigation and then complete the recommissioning. While the reservoir is offline it is important that a qualified contractor be prepared to complete spot repairs at the engineer's direction if repairs are expected to achieve sufficient cost versus benefit. At this time the total work, including a provision for spot repairs are being managed with the original \$50,000 budget for this work.

This report was prepared by Clinton Harper, LAWSS General Manager

Attachment(s):