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## REPORT TO SURFSIDE PARK ESTATES WATER SERVICE COMMITTEE MEETING OF JUNE 25, 2026

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**SUBJECT**     **Surfside Water System 2026 Mid-Year Capital Projects and Operational Update**

### **ISSUE SUMMARY**

To provide the Surfside Park Estates Water Service Committee with capital project status reports and operational updates.

### **BACKGROUND**

The Surfside Park Estates Water System is located on the southwest side of Mayne Island in the Southern Gulf Islands Electoral Area and provides drinking water to approximately 71 customers. Capital Regional District (CRD) Infrastructure and Water Services is responsible for the overall operation of the water system with day-to-day operation, maintenance, design, and construction of water system facilities provided by the CRD Infrastructure, Planning and Engineering and Water Infrastructure Operations divisions. The quality of drinking water provided to customers in the Surfside Park Estates Water System is overseen by the CRD Water Quality division.

### **CAPITAL PROJECT UPDATE**

Two major capital improvement projects on the Surfside Water System Capital Plan, the Wood Dale Drive Water Main Replacement (24-01) and the Water Storage Tank Replacement (25-01) have insufficient funds to carry out within the next two years. Under the *Local Government Act*, participating area approval is required for loan authorization. A petition process was conducted to seek neighbourhood owner approval for CRD to borrow \$2,000,000 to fund these projects.

Outreach and community engagement included door knocking, phone calls, information mailouts, and public meetings. The petition process requires a majority of property owners to submit petitions to CRD, indicating their support for the borrowing. The 2025 petition process was unsuccessful. Without this loan authorization, there is no funding and the CRD is unable to advance the watermain replacement project and other critical works at this time.

#### **24-02 | Source Water Surveillance**

Total Project Budget: \$20,000 (2026)

Project Description: Improvements to monitoring and controlling the water supply system.

Project Rationale: Currently, there is no remote monitoring of groundwater levels or water production metering at Well #5. Manual readings are typically collected weekly during the summer months and less frequently during the fall and winter. In the event of drought conditions, declining groundwater levels, increased water demand, or equipment malfunctions, the lack of real-time monitoring can delay the identification of issues and the implementation of corrective actions, potentially resulting in adverse impacts on groundwater resources and service reliability.

This project will provide operations staff with real-time access to groundwater level and water production data, enabling improved monitoring of water resource trends, faster response to operational issues, and enhanced protection of groundwater resources. The project is expected to include the installation of level transmitters, flow metering, SCADA integration, and communications system upgrades.

These improvements are essential to support the ongoing delivery and sustainable management of the water service. Deferring the project will increase the risk of service disruptions, reduce the ability to proactively manage water supply during periods of high demand or drought, increase operational costs associated with manual monitoring, and heighten the potential for costly emergency repairs.

**25-02 | Replacement of Ultraviolet (UV) Equipment**

Total Project Budget: \$15,000 (\$5,500 in 2026)

Project Description: Replacement of UV equipment at the Surfside Water Treatment Plant.

Project Rationale: Existing UV equipment is at end of life and needs repair parts which are no longer supported. Replacement is deemed necessary.

Project Update and Milestones:

- Existing unit failure led to expedited order of replacement unit. Price escalation since budgeting in previous year, as well as new controls requiring additional Supervisory Control and Data Acquisition (SCADA) integration have resulted in cost overruns. A Capital Plan Amendment staff report was provided in June 2025.

Milestone	Completion Date
Capital Plan Amendment for additional controls upgrades	June 2025
Installation of replacement UV reactor	May 2025
SCADA integration and commissioning (Project complete)	March 2026

**26-01 | Water Service Repairs and Replacement (Provisional)**

Total Project Budget: \$10,000 (2026/2027)

Project Description: Budget for repairs and replacements of services to address leaks or other operational requirements.

Project Rationale: The water service is experiencing a higher rate of water service connection failures that require immediate repairs or replacement. This provisional budget supports the emergency repair work, or repair work that Operations have identified.

Milestone	Completion Date
No spending to date	N/A

**26-02 | Arsenic Removal Assessment**

Total Project Budget: \$40,000 (2026)

Project Description: Engineering assessment to review implications of Health Canada’s proposed arsenic removal target from 10ug/L to 5ug/L.

Project Rationale: The current arsenic filtration water treatment process was designed and installed approximately 20 years ago to treat the water to the standards at that time. Water treatment technologies have advanced through the years and given the proposed changes to arsenic removal targets, a review and assessment of the arsenic removal treatment process is prudent.

Milestone	Completion Date
Budget approval	March 11, 2026
Apply for grant funding	Q2 2026
Hire engineering consult	Q3 2026

**OPERATIONAL UPDATE**

This is an operational update reporting period from January through May 2026:

- Finalized the installation and commissioning of the replacement UV system.
- Emergency response to water treatment plant SCADA alarming. Several alarms were activated. After investigation and troubleshooting, it was determined that an electronic control board that operates the water treatment system had failed.
- Replacement of a failed check valve in the water treatment plant.
- Continued monitoring weekly water production information throughout the reporting period. Daily average water production for January through April is approximately 23 m<sup>3</sup> per day, which continues to be significantly lower than the 48 m<sup>3</sup>/day for the same period in 2025. Water loss or non-revenue water is still on the high side.
- Arsenic filtration media replacement summary:
  - Vessel A: August 7, 2025; May 28, 2026
  - Vessel B: November 18, 2025

**RECOMMENDATION**

There is no recommendation. This report is for information only.

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