

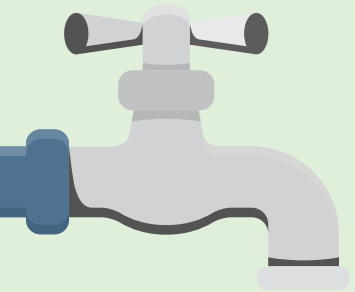


**NORTH  
SALT SPRING  
WATERWORKS  
DISTRICT**

# Maxwell Lake New Water Treatment Plant

Public Engagement

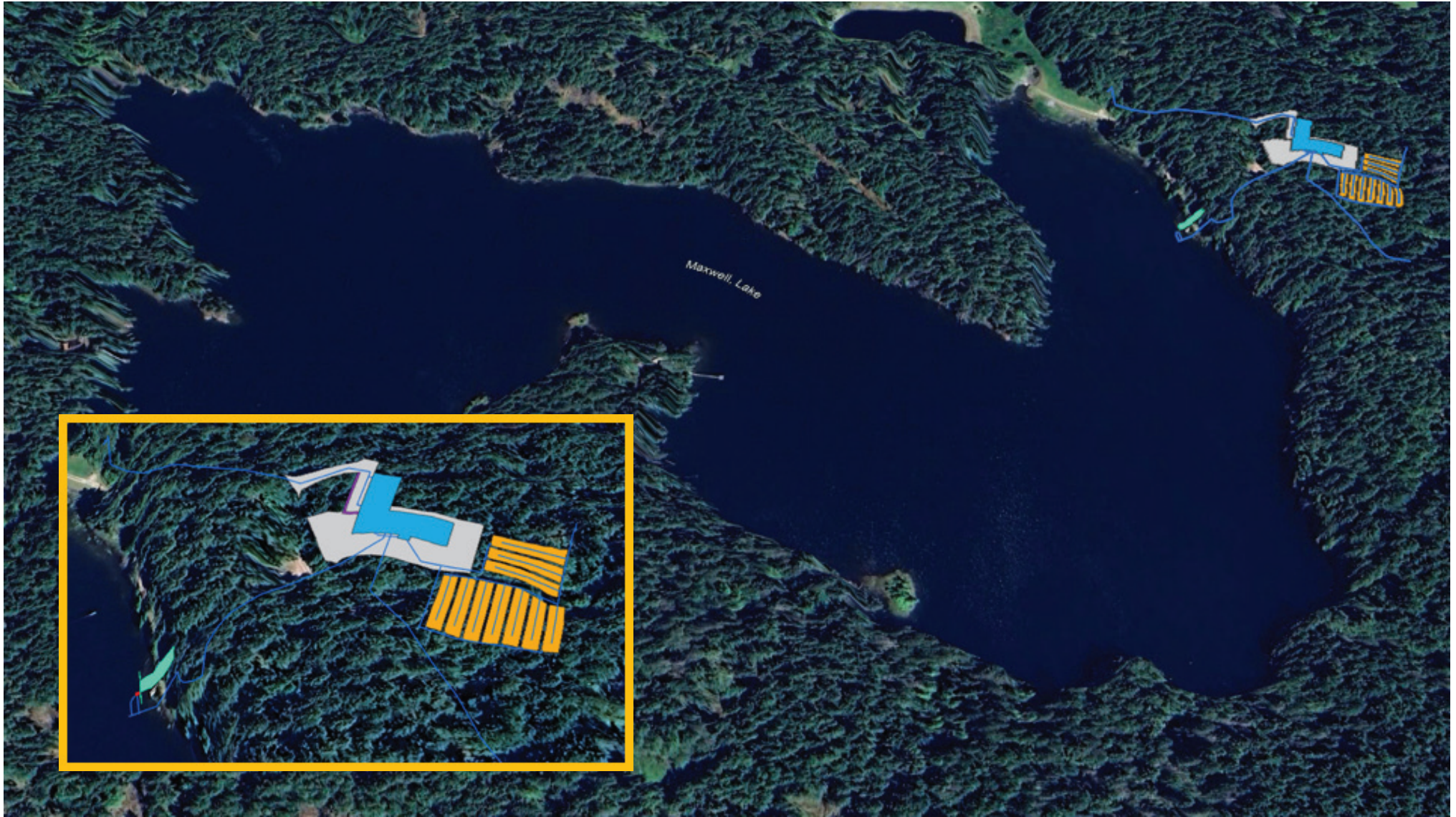
**Open House – Feb 11<sup>th</sup> and March 13<sup>th</sup>**



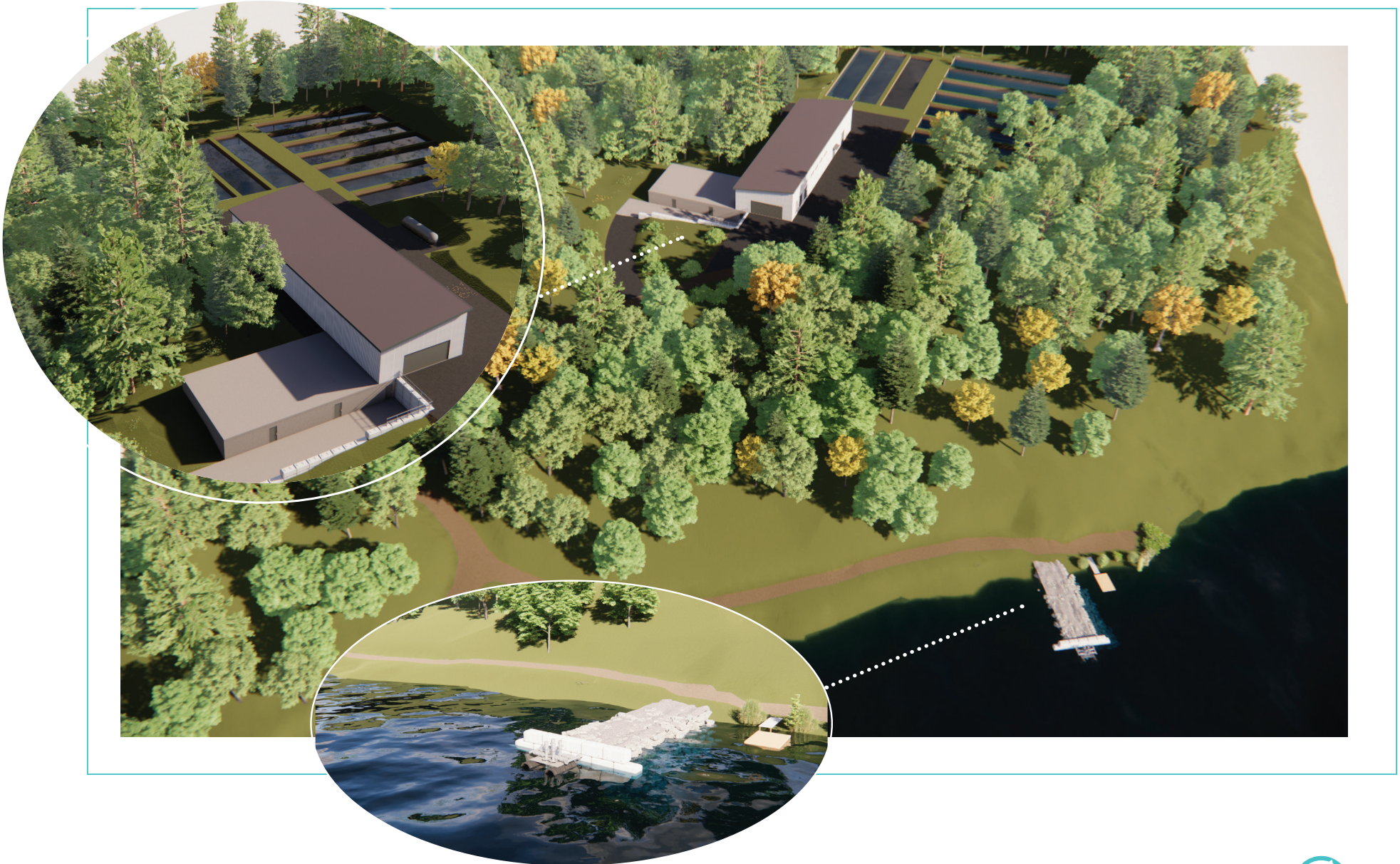
Please provide your feedback by March 20<sup>th</sup>  
**[projects@nsswaterworks.ca](mailto:projects@nsswaterworks.ca)**

**[northsaltspringwaterworks.ca](http://northsaltspringwaterworks.ca)**

# Maxwell Lake WTP — Google Earth



# Maxwell Lake WTP Renderings



# Maxwell Lake WTP Project Objectives

## Improve water quality:

### Island Health Directive

Meet 4-3-2-1 Surface Water Objective

### Upgrade from Chlorination

DAF, Filtration and Two-Stage Disinfection

Allow flexibility for future supply reliability

Minimize power consumption

Minimize waste disposal costs

**May 8<sup>th</sup>**



Ratepayer referendum vote to confirm loan authorization for \$11.7M to fund the new Water Treatment Plant (WTP).

# NSSWD Building Resiliency Strategy

**A series of system improvement projects, scheduled for completion by 2027, has potential benefits for improved supply across the whole system.**

For 75 years, North Salt Spring Waterworks has been the primary steward of our most precious resource on Salt Spring Island — water.

**Raising Weir at St. Mary Lake**

**Joining of Systems at Crofton Transfer Station**

**Maxwell WTP Construction Utilizing Rippon Creek Diversion**

Today, we're building a more resilient system to ensure a sustainable water supply for Salt Spring Island's future.



Easing of the water moratorium on the Maxwell Lake side of the system.



Raising the weir on St. Mary Lake to improve supply resiliency and sustain flows to Duck Creek.

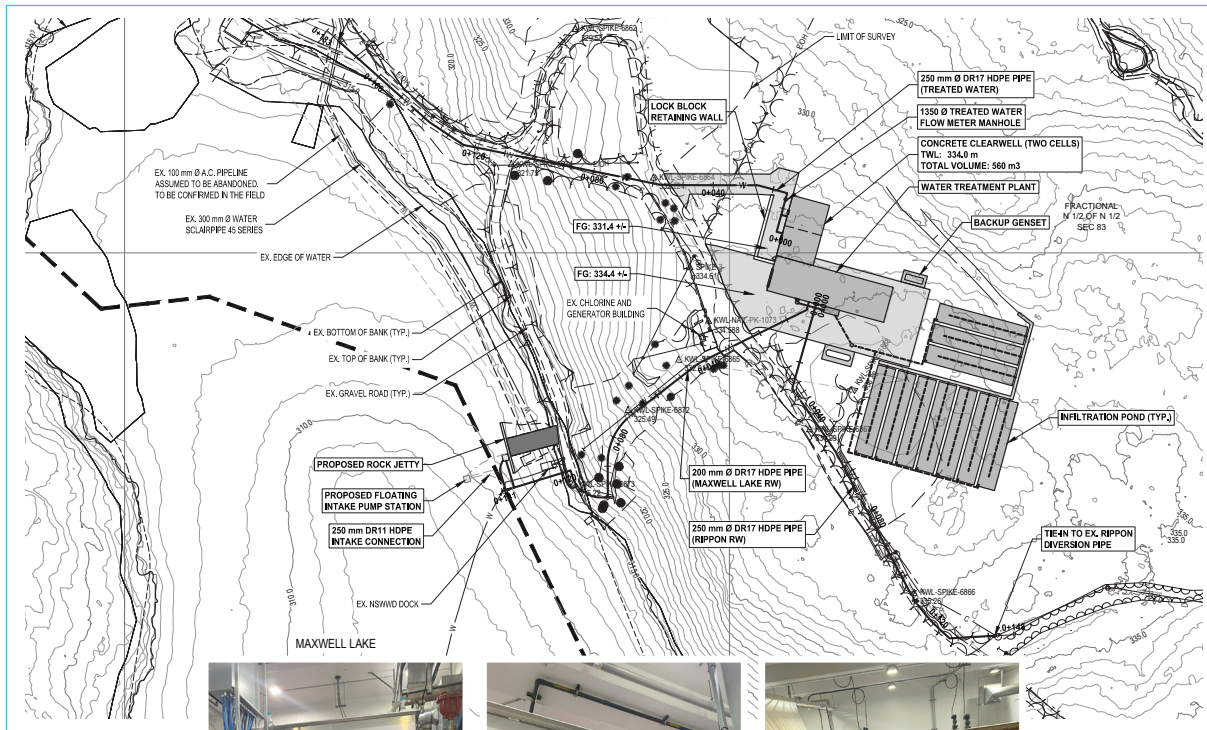


Constructing a new water treatment plant on Maxwell Lake to improve water quality and supply.



Connecting the two systems to enhance flexibility and reliability.

# New DAF Water Treatment Plant at Maxwell Lake



## Details:

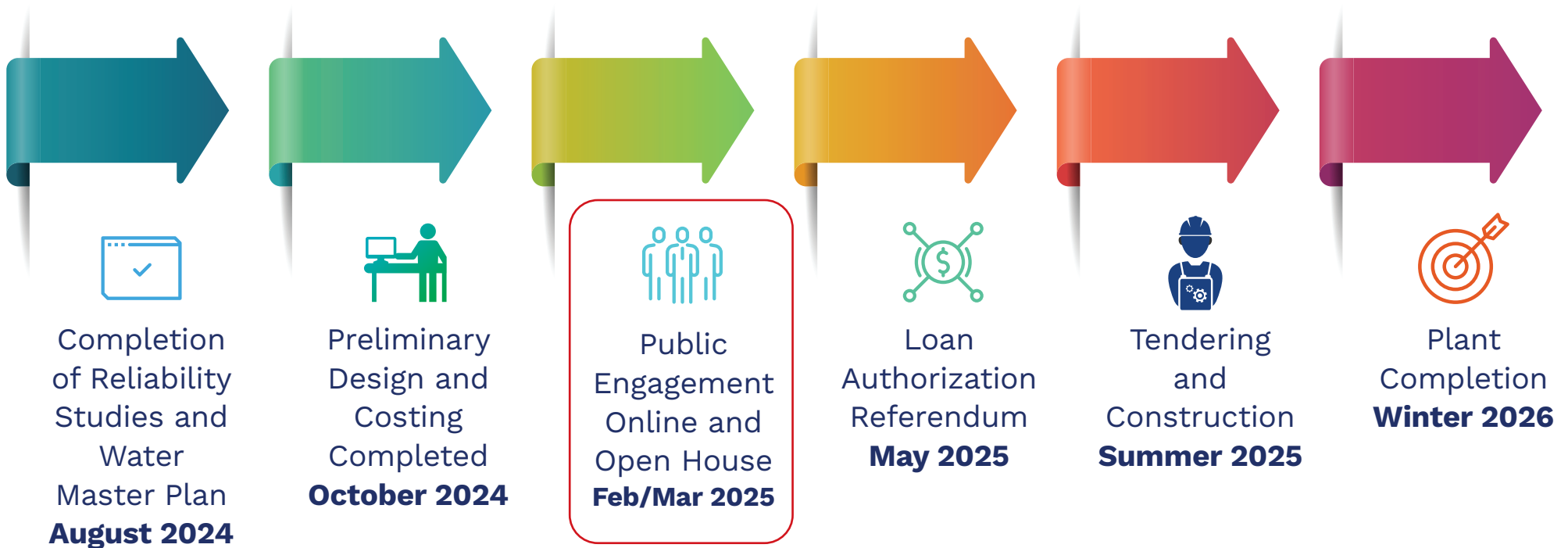
Specifically mandated by Island Health, Dissolved Air Flotation (DAF) technology has a proven history of effectively treating surface water sources.

Plant cost preliminary estimate is \$12.7M plus contingency costs and an \$11.7M loan authorization is required from ratepayers.

Plant flow variability added: production capacity increased from 26L/s to 46L/s and allows for lowest flow of 2.5L/s.

Infiltration ponds provide significant reduction in waste, transportation, and disposal costs.

# Maxwell Lake WTP Project Timeline



# September 2024 **Updated Schedule**

Phase	Task Name	2024			2025				2026			
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
A	Preliminary Design											
B	Detail Design											
C	Tendering & Construction											
D	Permits											
E	Archaeology											
F	Legal Survey				OPEN HOUSE DATES FEB 11 <sup>th</sup> + MAR 13 <sup>th</sup> , 2025							
G	Public Engagement											
H	Referendum	AGM MAY 8 <sup>th</sup> , 2025										

Maxwell Lake Water Treatment Plant Project Timeline

## LEGEND



Revised schedule based on change in scope

Revised unconfirmed schedule  
(dependent on site findings/communication with others)

# Provincial & Federal Permitting

## Island Health

Archeological permit application moving forward

## Water Sustainability Act

- Rippon seasonal supply - water license amendment
- Rock jetty – potential change approval

## Land Act

- Potential Crown land tenure application for rock jetty

## Liaise with Island Health, Fisheries and Oceans Canada, MOE and CRD

- DFO request for review
- Submit application with Preliminary Design
- Authorization under Fisheries Act, may or may not be required



Ministry of Forests,  
Lands & Natural  
Resource Operations

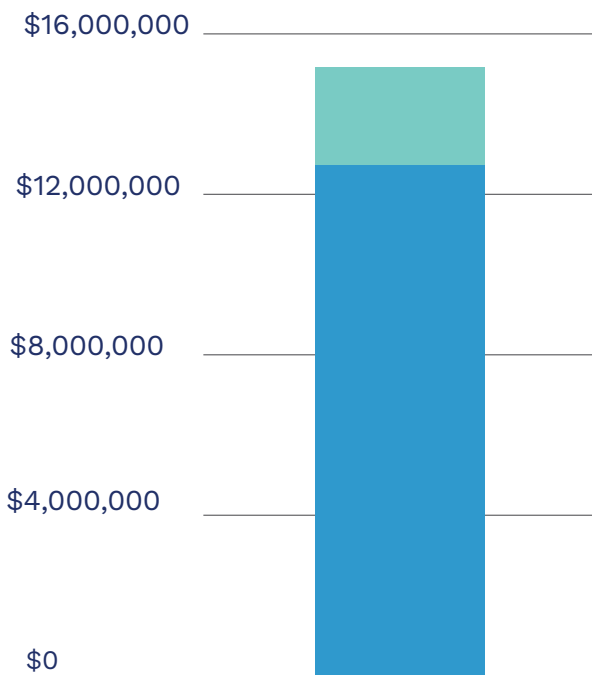


Fisheries and Oceans  
Canada

Pêches et Océans  
Canada

# Maxwell Lake WTP Funding Strategy

Estimated Costs



## 1. Current Funding Plan

Loan Authorization	\$11,700,000
Existing CEC Reserve	\$900,000
CECs (2025-2026)	\$2,000,000
<b>Total Cost</b>	<b>\$14,600,000</b>

## 2. Funding Plan with Grant

Loan Authorization	\$5,700,000
<b>CHIF Grant</b>	<b>\$6,000,000</b>
Existing CEC Reserve	\$900,000
CEC Revenue (2025/26)	\$2,000,000
<b>Total Cost</b>	<b>\$14,600,000</b>

## Loan Payment Plan

<b>1. Annual Loan Payment (20 yr)</b>	<b>\$888,000</b>
Approved \$400 Surcharge (starting 2026)	\$845,600
<b>2. Loan Payment with Grant (20 yr)</b>	<b>\$414,500</b>
Approved \$300 Surcharge (starting 2025)	\$634,200

Staff propose that surplus funds in Option 2 (\$220,000/yr) are allocated to asset management and a 0% tax increase in 2026.

# Funding Solutions Explained

2. Funding Plan with Grant	
Loan Authorization	\$5,700,000
<b>CHIF Grant</b>	<b>\$6,000,000</b>
Existing CEC Reserve	\$900,000
CEC Revenue (2025/26)	\$2,000,000
<b>Total Cost</b>	<b>\$14,600,000</b>

20-year loan from a financial institution, currently \$11.7M that could be reduced with CHIF Grant.

Unique grant opportunity from Federal Government to support housing infrastructure has been applied for.

Existing CEC reserve funds will be used to reduce loan amount.

The partial lift of the moratorium on the Maxwell Lake system will produce funds from Capital Expenditure Charges for new connections.

# Other NSSWD Conservation Initiatives

## Joining the Maxwell and St. Mary Systems in 2026

Grant Funding through CHIF

## Water Conservation Demand Strategy

Development in Spring 2025

## Raising St. Mary Lake Weir by 2027

\$10M in Provincial Funding

## WaterSavers Rainwater Catchment Program

\$40,000 in rebates

## CARL Watershed Project

\$250,000 over 5 years



**NORTH SALT SPRING WATERWORKS DISTRICT WATER SAVERS REBATE PROGRAM**

**2024-2025**

Up to \$750 for Non-Potable Rainwater Harvesting  
For Salt Spring Island North Salt Spring Waterworks District Ratepayers

Transition Salt Spring

CLIMATE ACTION COACH

FUNDING PROVIDED BY: **75th ANNIVERSARY** NORTH SALT SPRING WATERWORKS DISTRICT

# Referendum Voting Approval Process

## May 8<sup>th</sup>, 2025

### → Referendum (Ascent Voting)

- Administered as an election process
- Will be held at the same time as trustee elections
  - Majority rules (50%+1)
- Same public notice requirements as election

### → Mail-In Voting

March 24th to May 6th

### → In-Person Voting at AGM

May 8th from 2pm-6pm

