

Water Supply Advisory Committee

Orientation for New Members

Nov 7, 2022



Today's Agenda

1. Welcome and introductions
2. Orientation presentation
3. Election of WASAC Chair and Vice-Chair
4. Meeting schedule and location
5. Future meeting topics



Introductions

- Tell us your name
- Which water system/source are you on?
- What do you love most about living on the Sunshine Coast?



Orientation Overview

- Board and committee governance
- Regional District Finance
- SCRD Water Systems Overview
- Climate Change Influences on Water Systems
- Current Projects
 - SCRD Water Strategy
 - Water supply expansion projects
 - Water meter installations

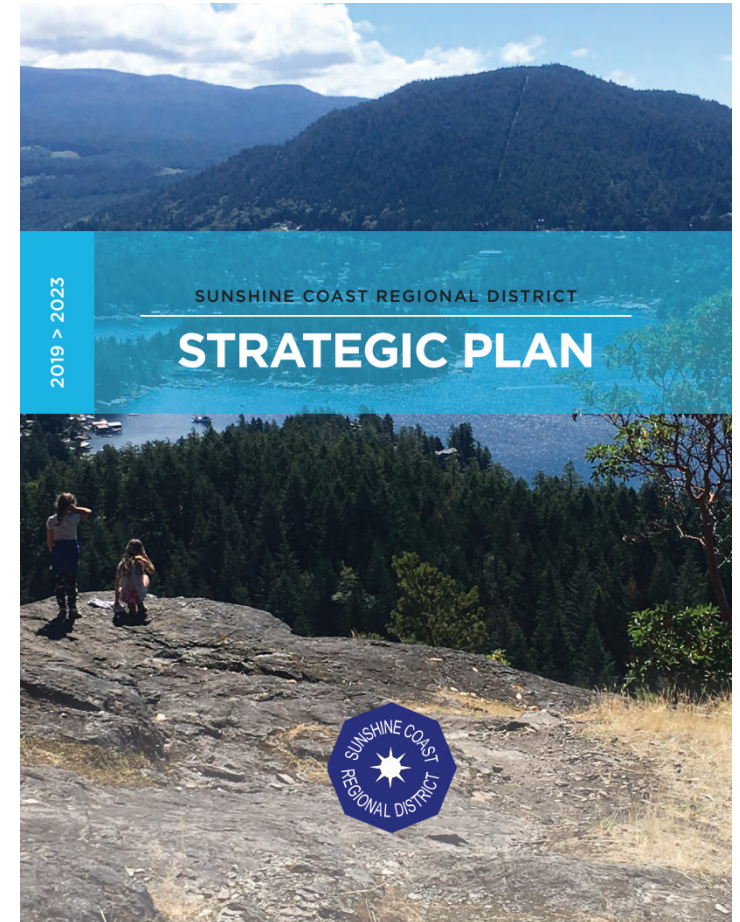


2019-2023 Strategic Plan

Water supply objectives

- Address current water supply crisis
- Develop water supply plans for upcoming decades
- Repair and replacement of existing infrastructure
- Adapt to a changing climate
- Expand water conservation programs
- Increase public participation
- Consider regional watershed protection

Board Strategic Plan to be updated in 2023



WASAC Terms of Reference

Provide recommendations on:

- the development and implementation of **Water Strategy** and associated action plans
- new or updated **policies** related to water supply expansion and water conservation; and
- the development of related **engagement plans and materials.**



Terms of Reference

- Encourages and fosters community involvement
- Open, accountable, and effective operation
- Recognizes advisory committees are one of many channels that the SCRD Board may use to obtain opinions and advice when making decisions
- Cannot represent the SCRD in an official capacity



Roles & Responsibilities

SCRD Board (week 2 and 4 of each month)

- Decides budget, staff resource allocation and strategic direction
- Sets the Term of Reference and appoints committee members
- Can adopt recommendations from WASAC
- Can refer documents to WASAC for advice

Committee of the Whole (COW) (week 2 and 4 of each month)

- Decides on if WASAC recommendations will be recommended for adoption by the Board

WASAC (week 1 of every 2 months)

- Advises Board as per their Term of Reference

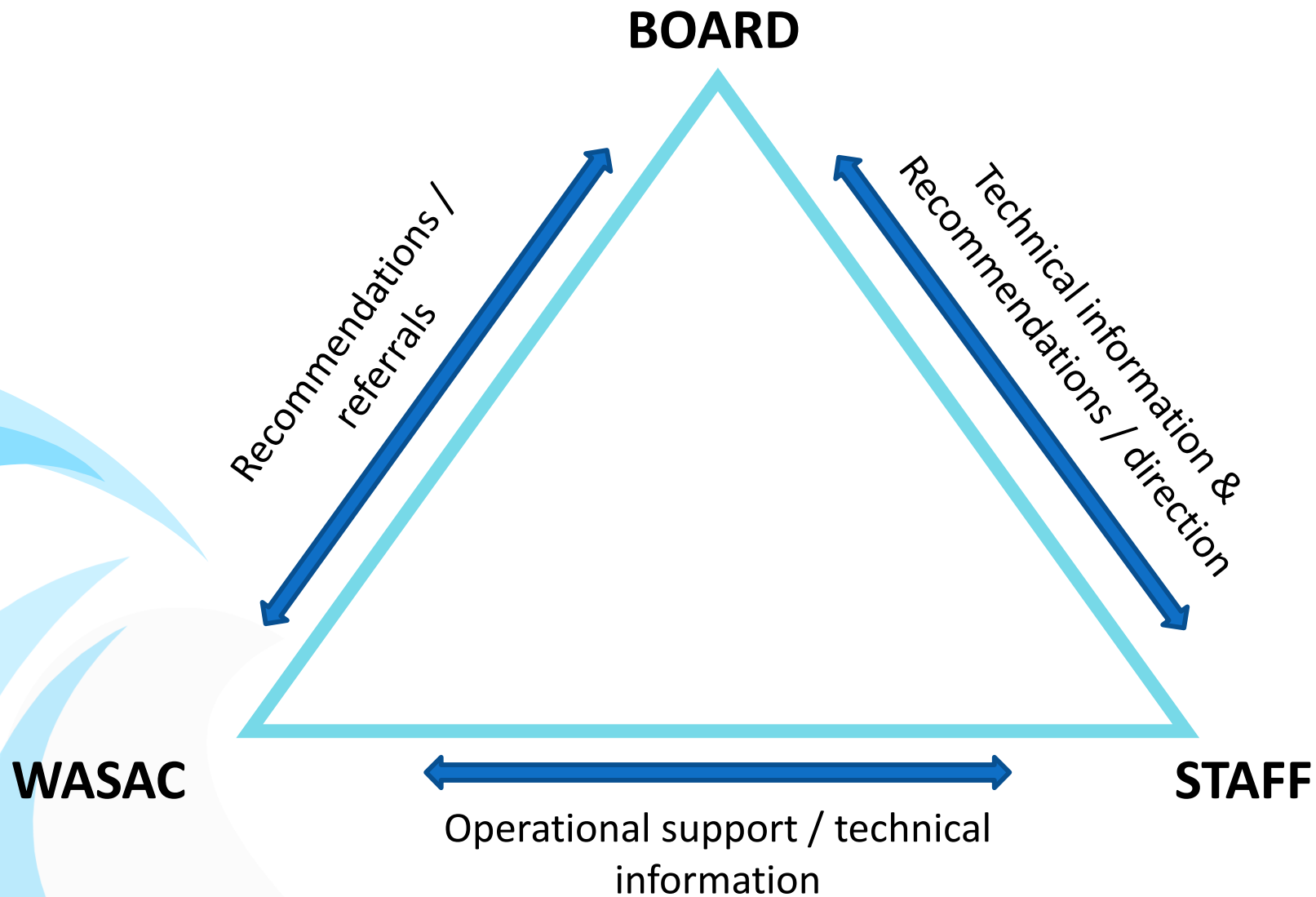
Staff

- Operational support to WASAC
- Implements direction received from Board

www.scrd.ca



Interactions



How to impact Board decisions?

Tools

- WASAC recommendation
- Can request to be a delegation at COW

WASAC can provide recommendations (as per ToR):

- a. On documents referred to the Committee by the SCRD Board;
- b. For the Board's consideration as part of their decision making on a topic;
- c. On proposals for new water-related projects or programs;
- d. On related Board staff reports that are exploratory in nature where operational feasible.

Considerations by the Board will include

- Impact on staff resources
- Impact on implementation strategic plan and annual workplan
- Impact on budget (budget process 2023: input in fall 2022)

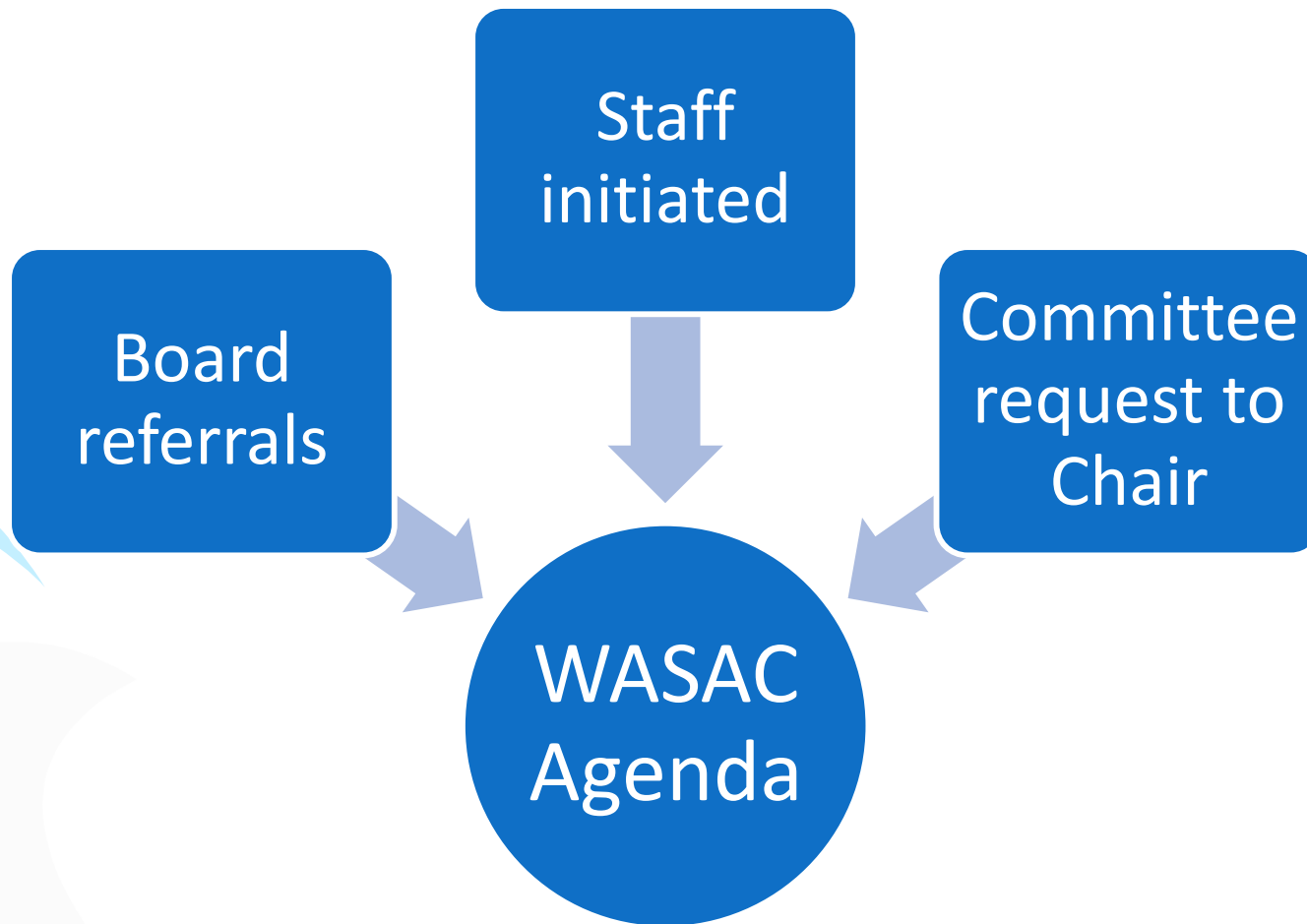


Examples of information requests

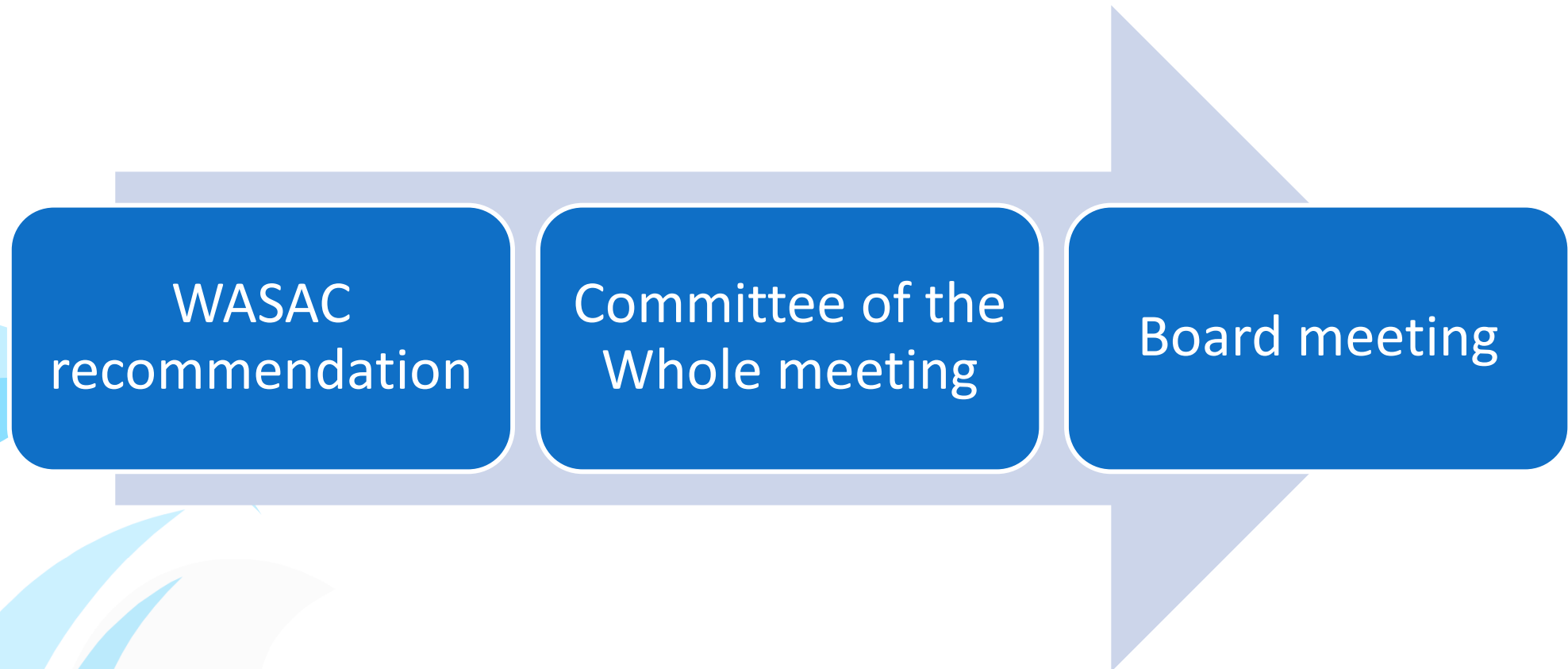
- Provide existing Board report:
 - No WASAC resolution required, staff will just provide it
- Provide overview of history on projects and considerations on a previous water supply project:
 - WASAC resolution required to request information be provided
- Provide high level analyses of the technical, regulatory and financial feasibility of a future water supply project:
 - WASAC resolution required requesting staff to prepare a Budget Proposal as part of 2022 Budget Process



Process



Process



Understanding Regional District Finance

www.scrd.ca

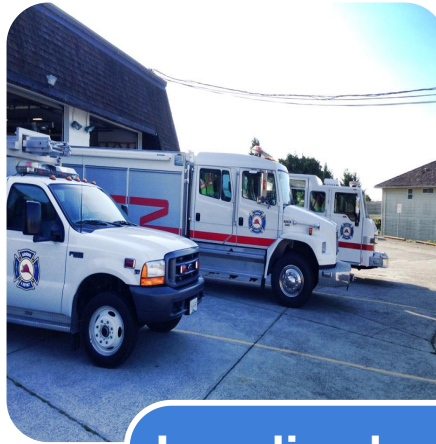


Types of Service Delivery



Regional Services

- Solid Waste Management Planning
- Liquid Waste Management Planning
- Emergency Planning



Localized Service

- Water
- Refuse collection
- Fire protection
- Wastewater



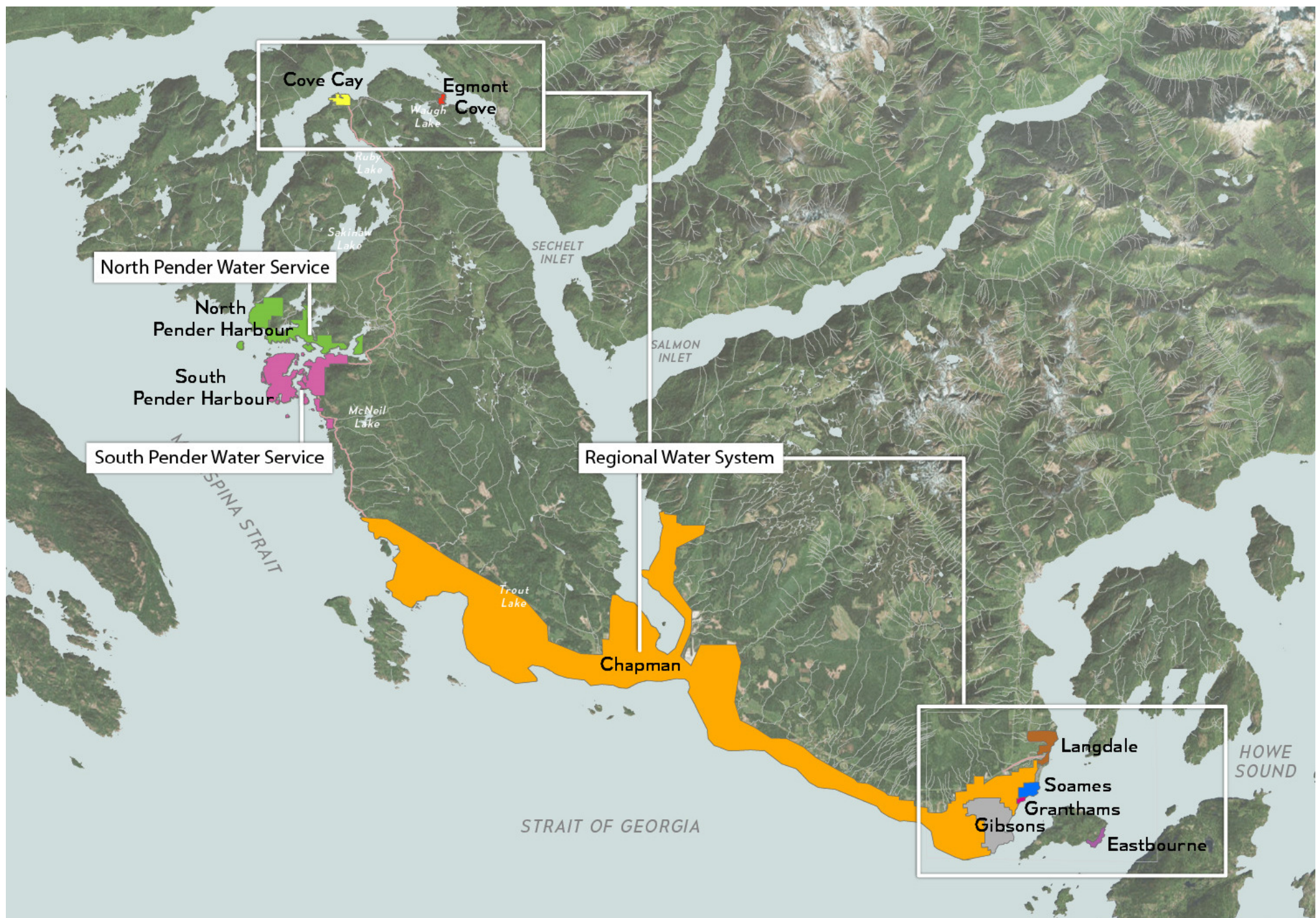
Examples of Discretionary Local Services

- Recreation
- Libraries
- Street lighting

Service Delivery

- Only those properties within a service area are taxed for the service
- Services are delivered in any combination to electoral areas &/or member municipalities
- Services may also be delivered via contract with third parties
- All participants pay into General Government Administration





Regional Districts & Municipalities

What's the difference?

Regional District

- Each service has an independent budget. All reserve and surpluses remain within a service.
- Funds can not be transferred between service budgets.
- Provincial Surveyor of Taxes collects taxes, not the Regional District.

Municipality

- Budgets are flexible. General surpluses and reserves can be used within a general fund.
- Funds can be transferred amongst different services and funds.
- Municipalities collect all taxes.



Financial Planning & Budget Process

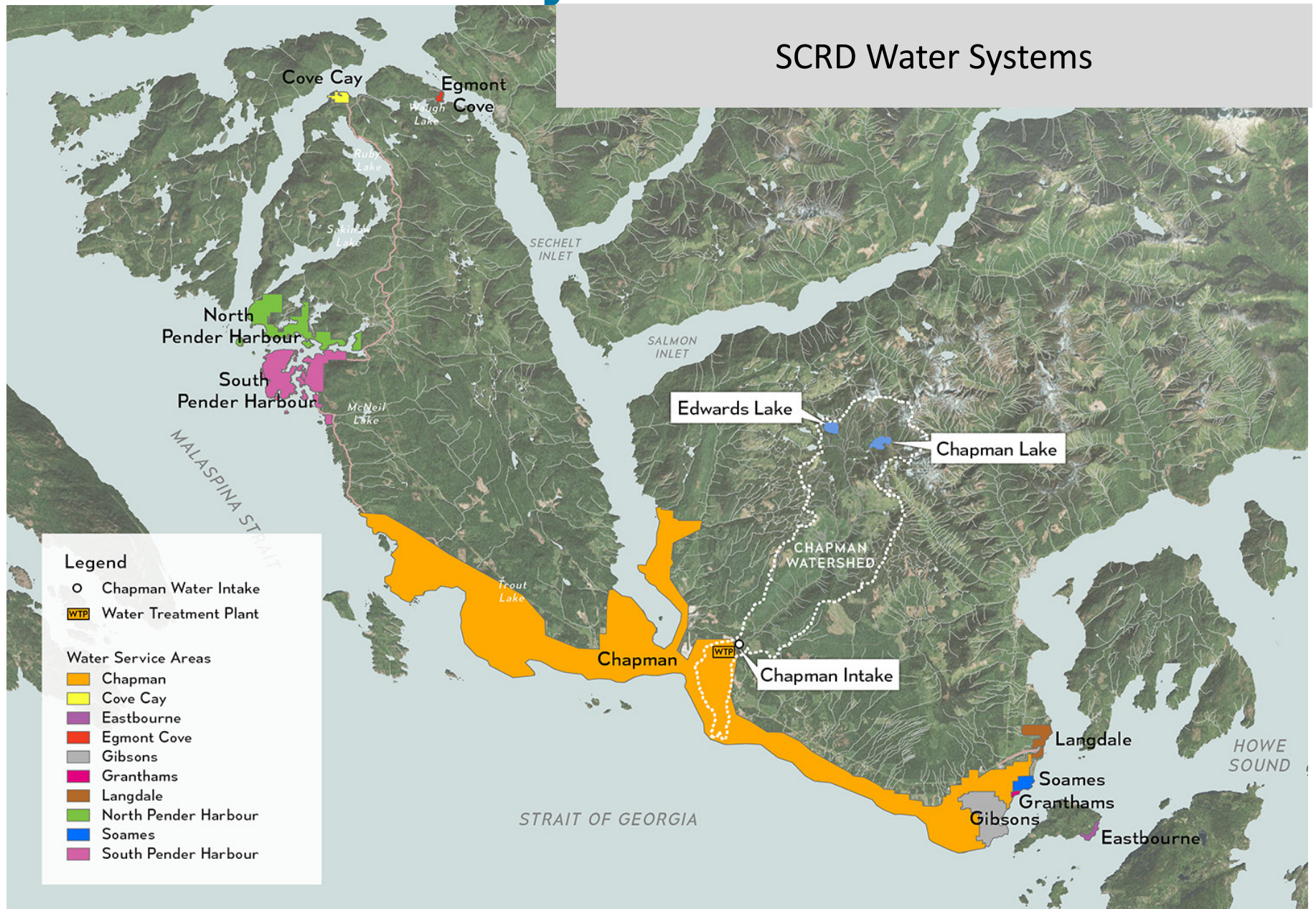
- Authority: Mandated under the *Local Government Act*
- Regional District Bylaw must be adopted by March 31 of each year.
- Like municipalities, 5-year financial plan is required for operational, capital budgets.
- Public consultation.



Revenue

Revenue Source	Use	Bylaw
Utility Bill	Daily operations and maintenance (User fee) with the remaining funds placed into an operating reserve fund for unexpected expenses.	<u>Water Rates and Regulations Bylaw 422</u>
Property Tax Notice	Capital expenses such as: Major repairs, replacements and new infrastructure (Parcel tax or Frontage Fee)	
Other charges	For specific work requests (eg. New service installation, service shut-off, etc)	
Development Cost Charges (DCCs)	Contributes to capital costs of service increases to serve new development	<u>Development Cost Charge Bylaw 693</u>

SCRD Water Systems



Chapman Creek Water System

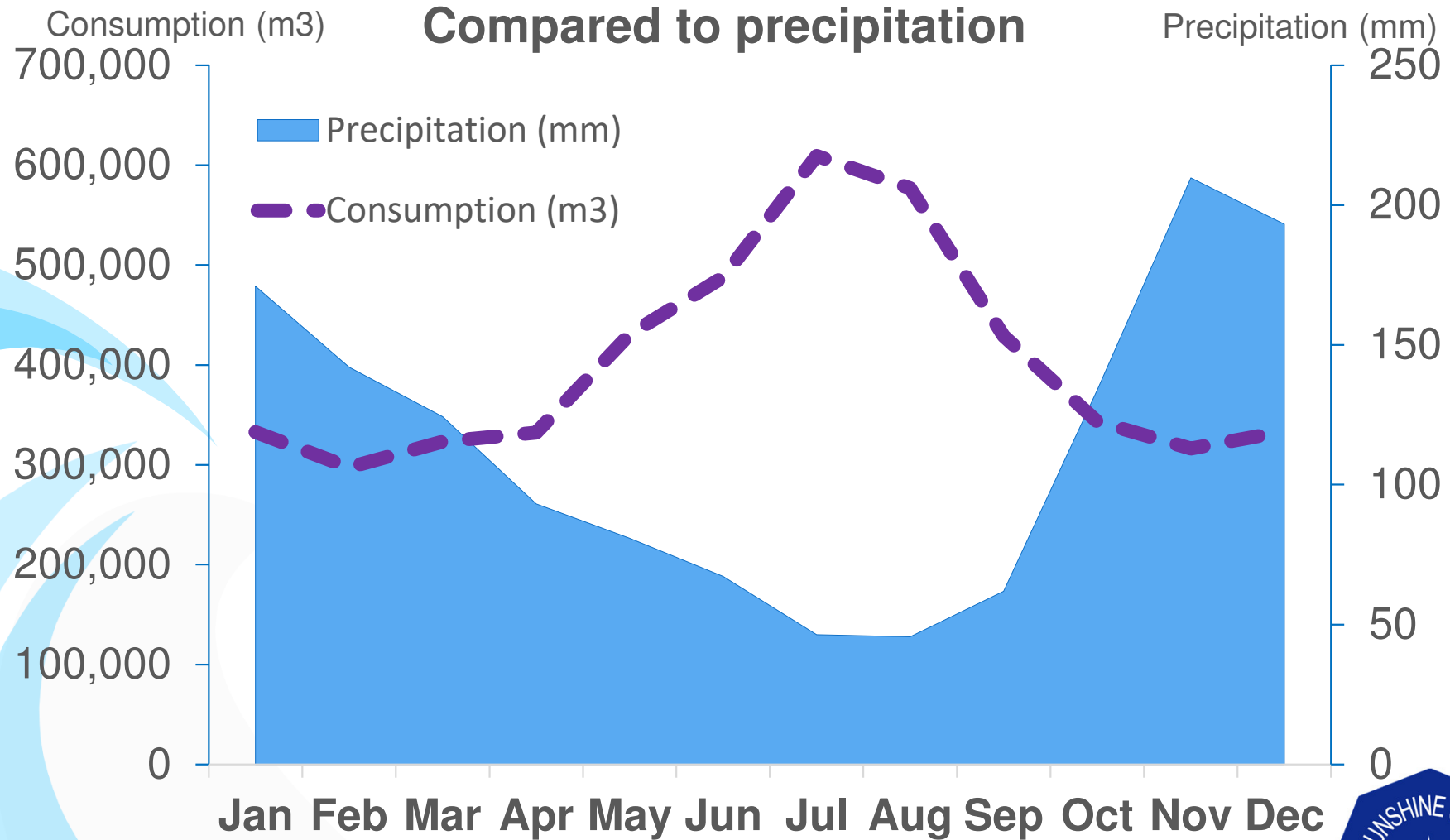


June 2021

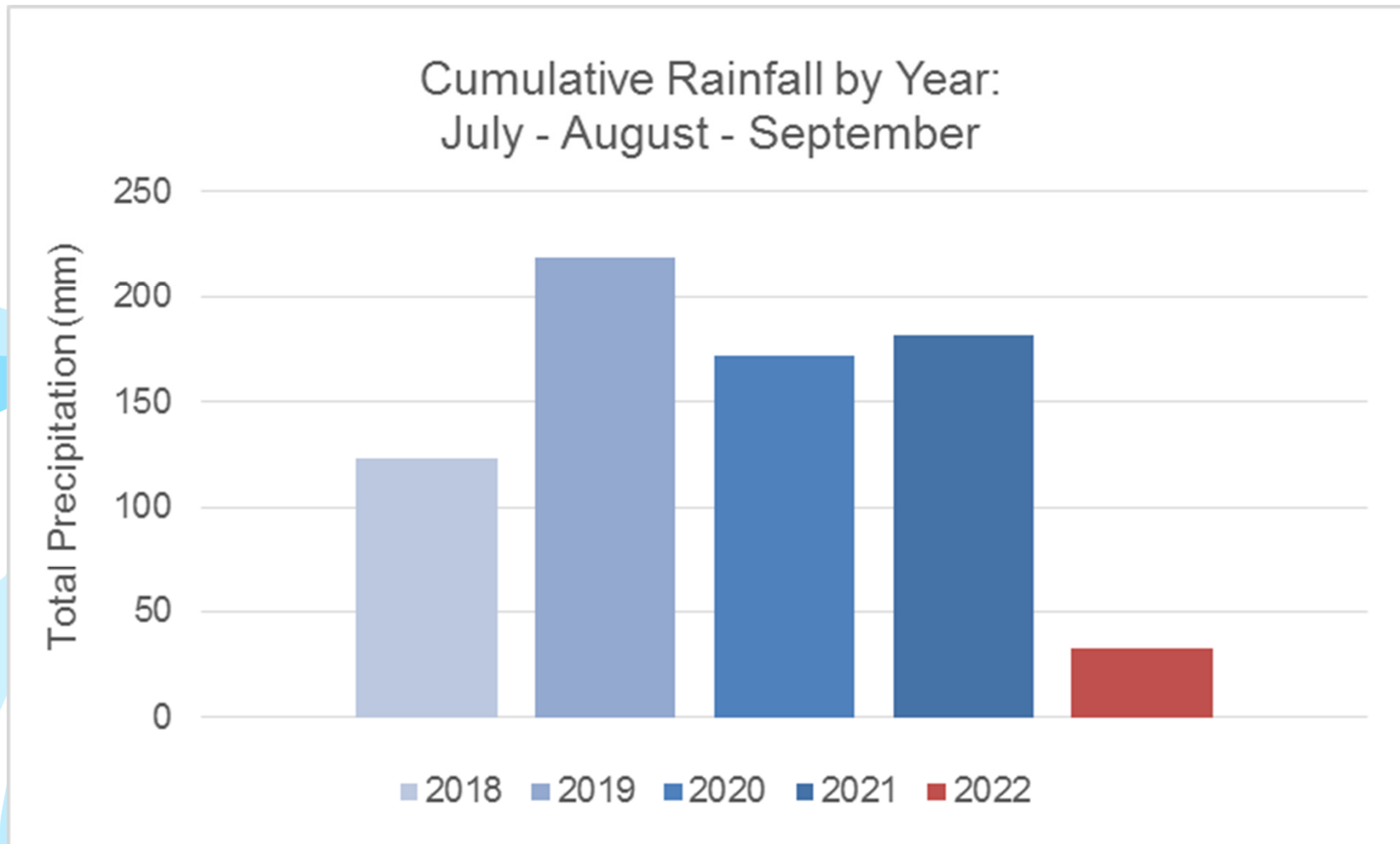


Rain dependent system

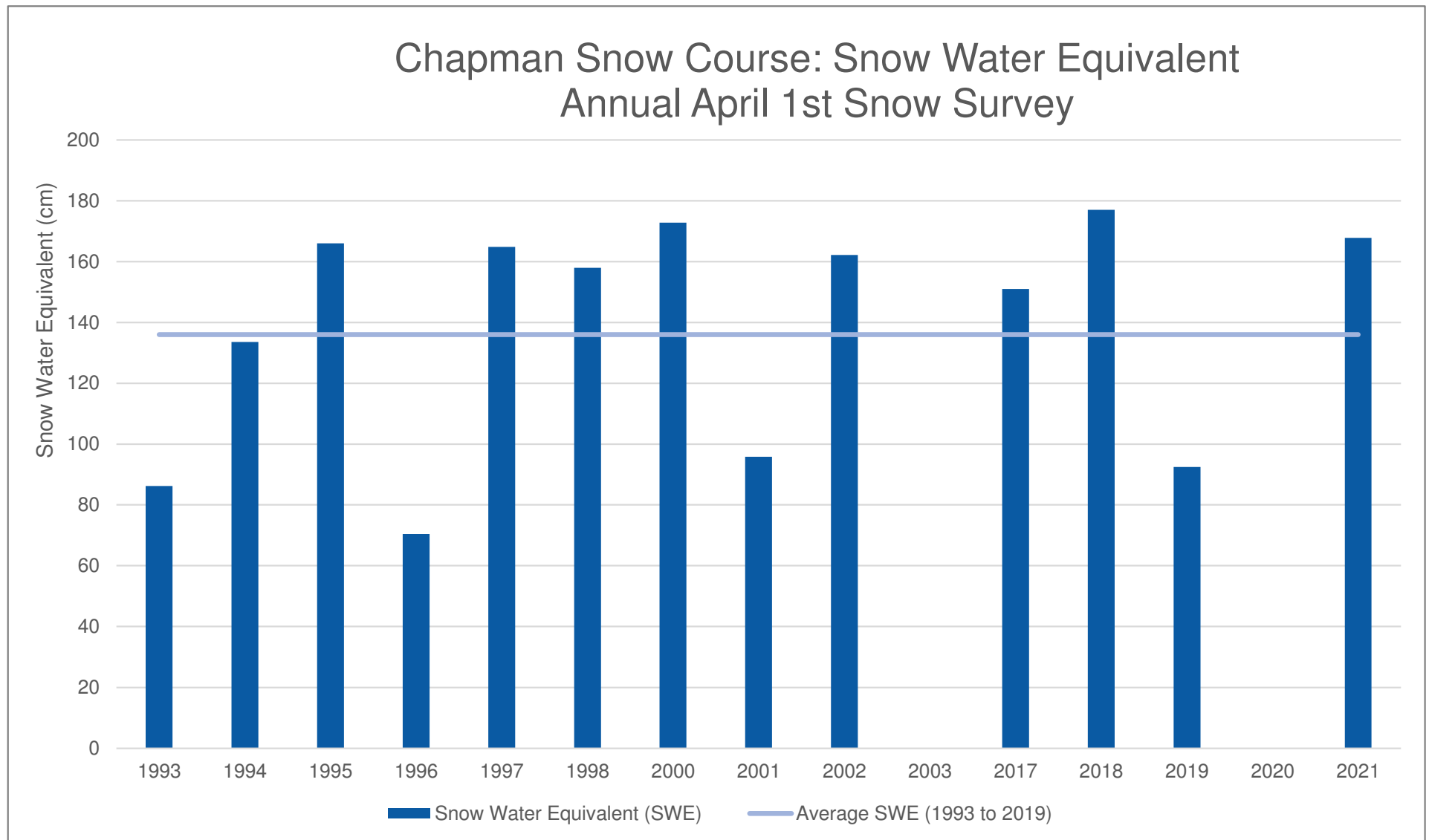
**Average monthly consumption
Compared to precipitation**



Climate Change Impacts

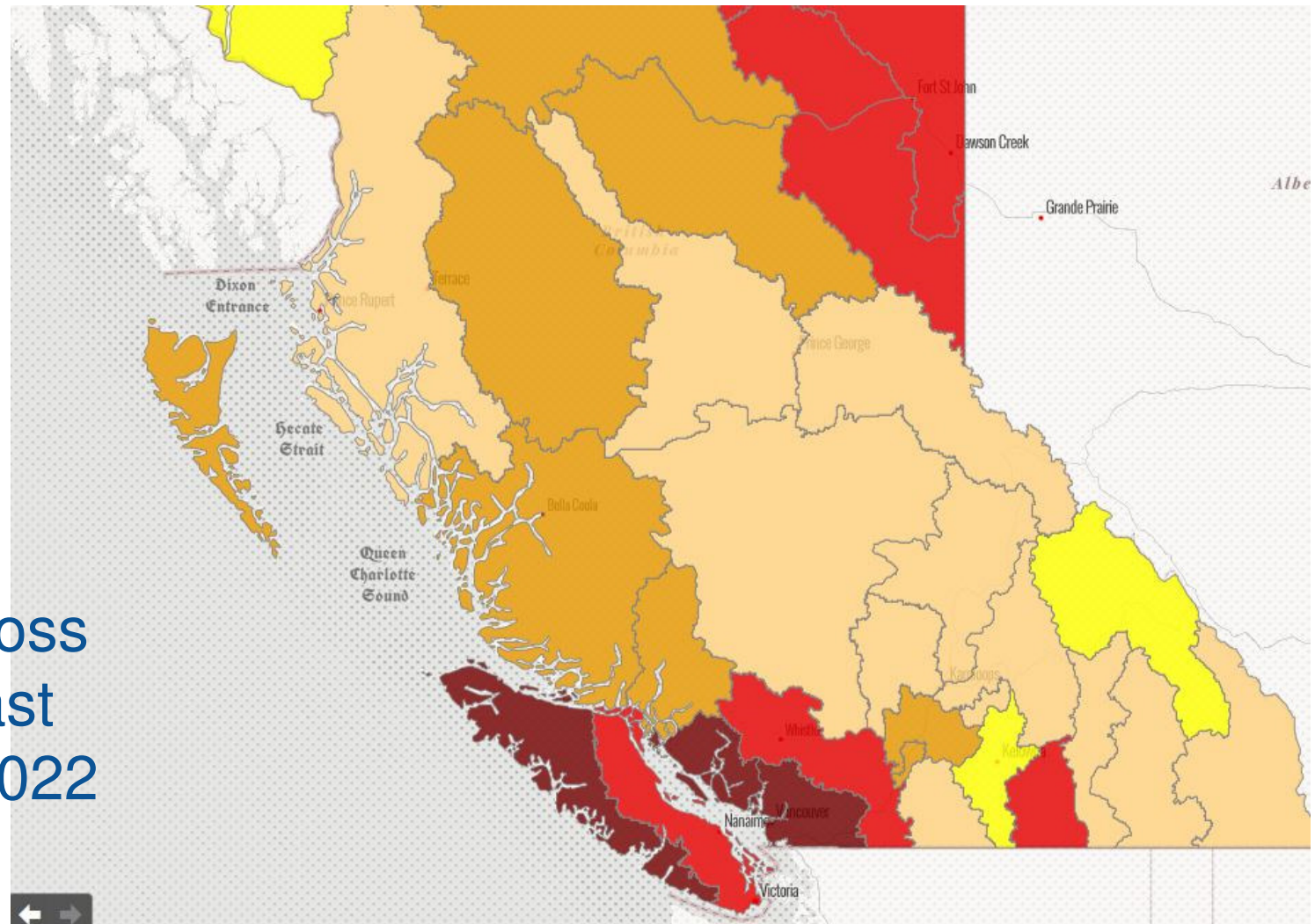


Climate Change Impacts



Climate Change Impacts

Extremely dry conditions across the South Coast of BC in Oct 2022



Environmental Flow Needs (EFN)

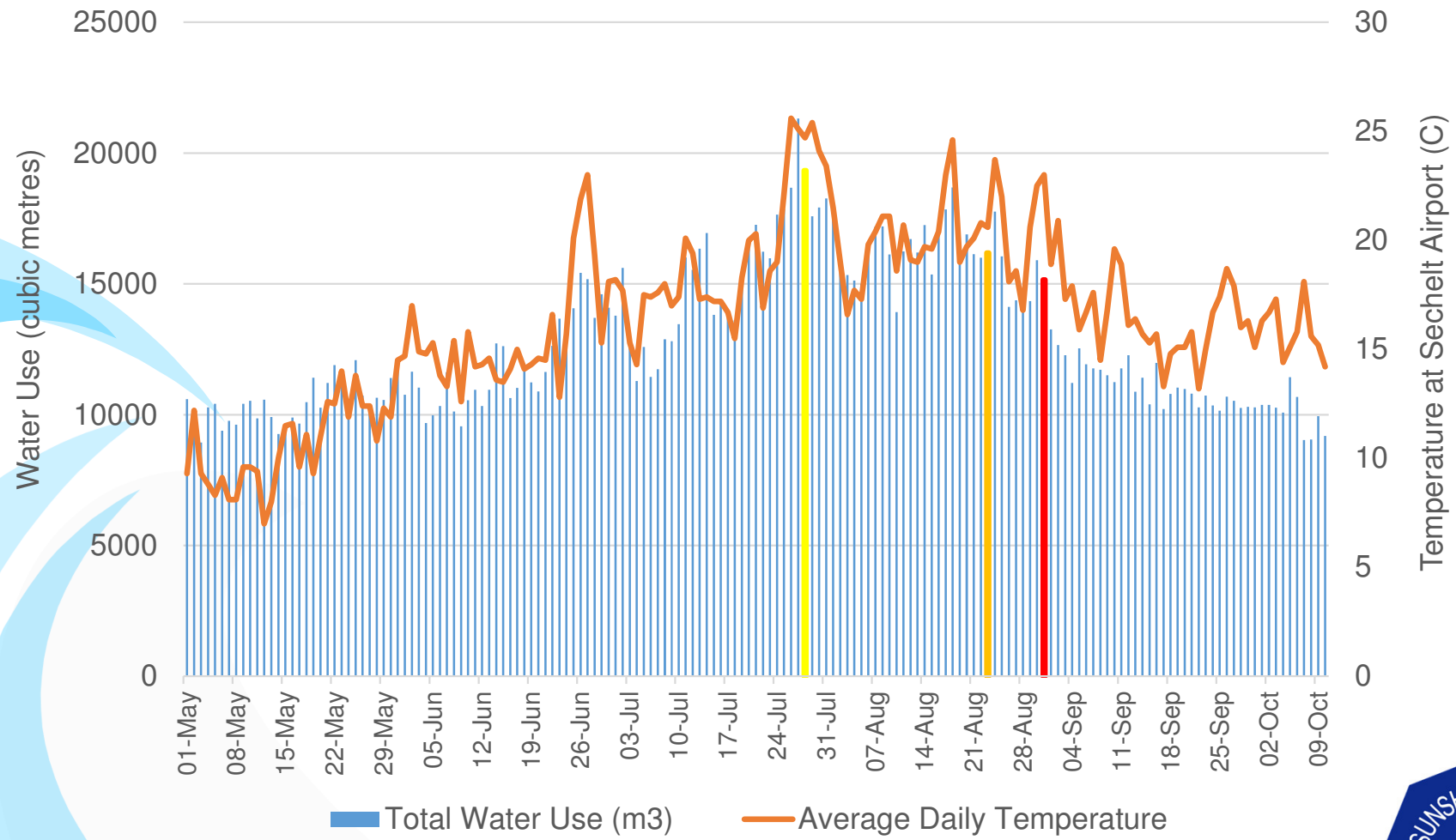
- Provincial requirement under *Water Sustainability Act* for flows in Chapman Creek
- 200 litres per second
- During the State of Local Emergency, the SCRD received permission to reduce EFN by 20%, to allow more water to be diverted for drinking water



Fish habitat at 200L/s

2022 Drought Response

Daily Water Use: Chapman Water System



Current SCRD Water Projects

As summers get drier and hotter, less precipitation falls, population expands and tourism increases, the demand for drinking water also increases. We cannot address our water supply challenges using a single solution.

The SCRD is **balancing supply and demand**, to improve the resiliency of our current water system.

- This approach considers new groundwater projects, along water metering program and conservation regulations, and operational improvements



SCRD Water Strategy

The SCRD is developing a Water Strategy to ensure safe and reliable water for current and future generations.

- 10-page public-facing plain language strategy
- **Sets the direction and priorities** for regional drinking water initiatives for the next **five years**
- Seeks to ensure water supply needs are met until 2050



SCRD Water Strategy

- Operational strategic plan that provides organizational direction
- Communication tool to explain to the public how we plan to manage drinking water
- Opportunity to seek public input
- Respond to challenges
 - population growth, tourism, climate change & emergency events



SCRD Water Strategy Framework



Water Strategy Timeline

Feb-Mar 2022

- *Engagement with previous WASAC*
- *SCRD Board approval to launch engagement*

May-Jun 2022

- *Engagement on the development of the Water Strategy*



Fall/Winter 2022

- *Write an Engagement Summary Report*
- *Draft of Water Strategy*

Early 2023

- *Seek feedback from WASAC, internal Staff, the public*
- *Finalize the Water Strategy*
- *Seek Board Endorsement for the Water Strategy*



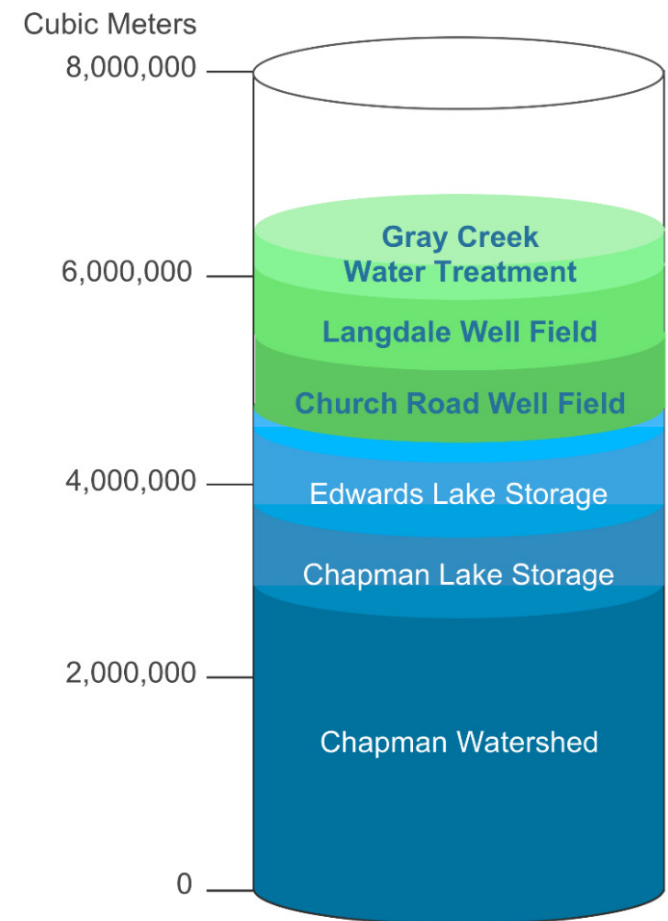
Water Supply Expansion Progress

Current Projects:

- Church Road Well Field: online by 2023
- Langdale Well Field (BC Ferries terminal), online by 2025
- Expanding water intake from Gray Creek, online: TBD

Working to confirm feasibility of

- Raw Water Reservoir
- Long-term source groundwater and surface water options
- New wells for Eastbourne Community



Increased Water Efficiency through **Water Meter Program**

- 6,200 accounts with water meters
- Share data with customers
- Engagement, education
- Leak notification program
- Final water meter installations starting in 2023 (another 4,800 properties)
- Rate Structure review to begin early 2023 to rethink how SCRD customers pay for water



Water Metering

- Detailed water usage (Monthly Water Use Update)
- Informs and optimizes operations
- Prompt leak repair

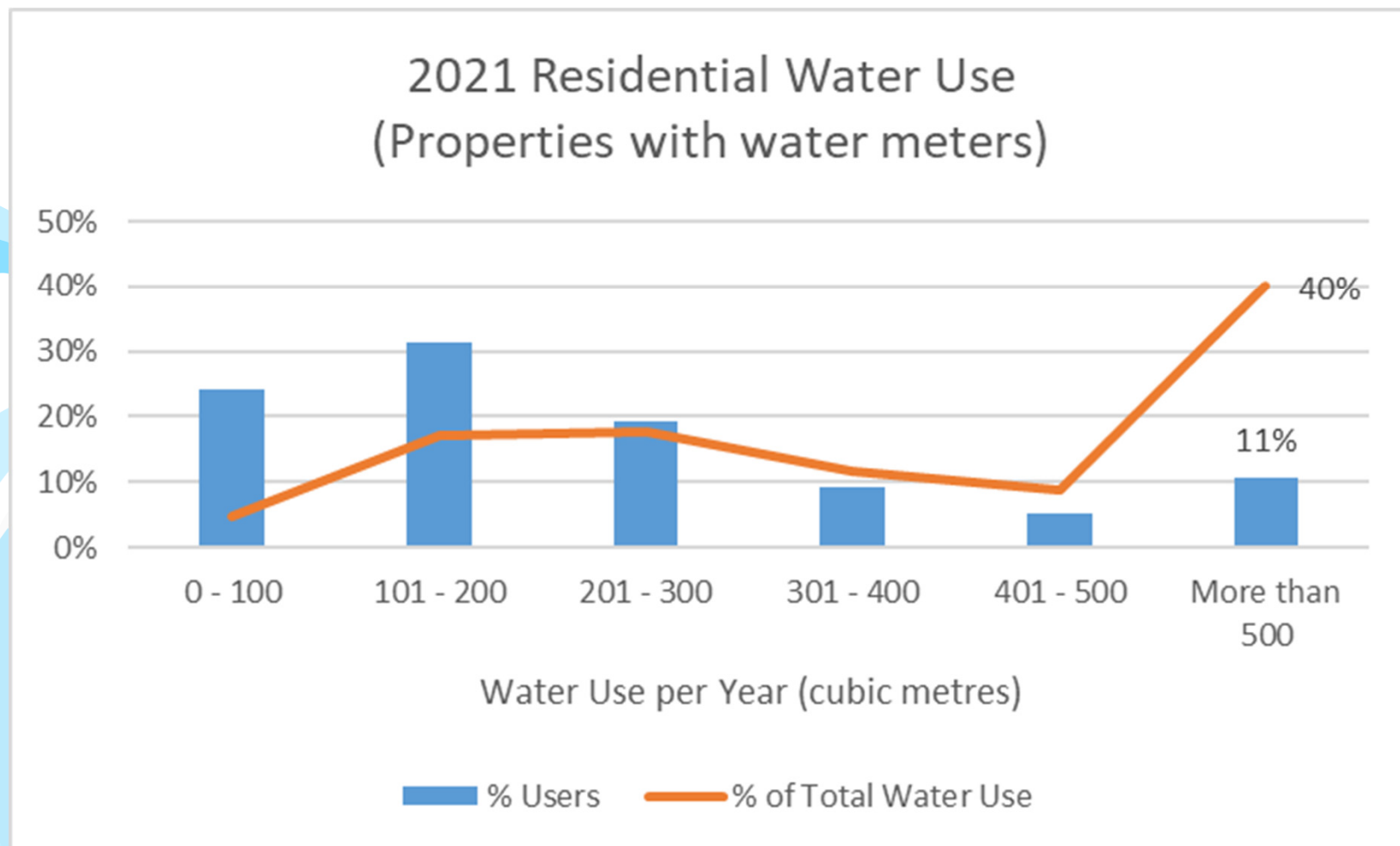
Water meters provide vital information to utility managers about water consumption, water loss and system efficiency

– BC Water and Waste Association (2012)

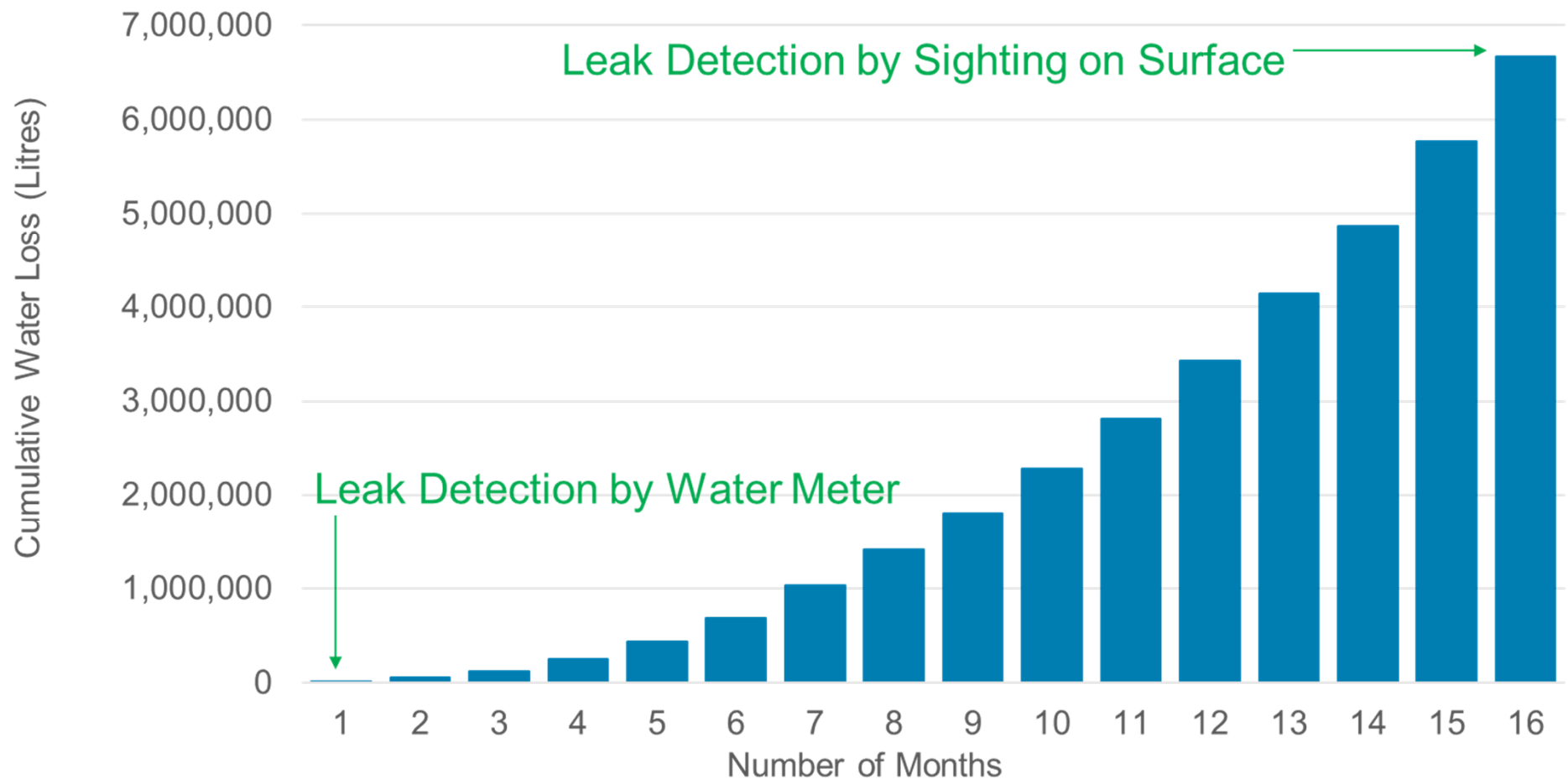


Household Water Use in 2021

- A small number of households account for 40% of metered residential water use
- A property with a leak uses about 4 times more water than average

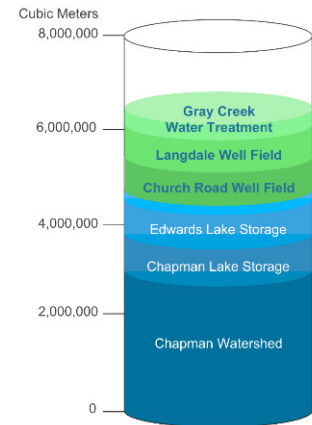


Hidden Loss of a Household Water Line Leak



Next Steps

- Continue developing new water sources
- Water meter installations
 - Continue leak notifications and sharing water use data with customers
- Water Strategy
- Increased communication and information sharing with public



DISCUSSION