



Notice of Meeting and Meeting Agenda Water Advisory Committee

Monday, September 23, 2024

12:00 PM

Goldstream Meeting Room
479 Island Hwy
Victoria BC V9B 1H7

Members of the public can watch the live meeting via MS Teams link: [Click here](#)
Audio and video participation is disabled.

MEMBERS

- Katie Oppen – Chair (Scientific)
- Kathleen Zimmerman – Vice Chair (Agriculture)
- Celine Davis (Resident / Ratepayer)
- Mike Doehnel (Vice Chair, Saanich Peninsula Water Commission)
- Ashley Fernandes (Environmental)
- Karen Harper (Vice Chair, Regional Water Supply Commission)
- Taylor Krawczyk (Agriculture); Alex McArdle (Agriculture)
- Craig Nowakowski (Island Health)
- Adam Pakvis (Commercial / Industrial Water User)
- Tom Pedersen (Environmental)
- John Rogers (Vice Chair, Juan de Fuca Water Distribution Commission)
- Wilf Scheuer (Commercial / Industrial)
- David Timothy (Fish Habitat)
- Mike Turner (Fish Habitat)

1. Territorial Acknowledgement

2. Approval of Agenda

3. Adoption of Minutes

3.1. [24-900](#) Adoption of the Minutes of the May 28, 2024 Meeting

Recommendation: That the minutes of the May 28, 2024 Water Advisory Committee meeting be adopted.

Attachments: [Draft Minutes: May 28, 2024](#)

4. Chair's Remarks

5. Presentations/Delegations

Delegations will have the option to participate electronically. Please complete the [online](#) application for "Addressing the Board" on our website and staff will respond with details.

Alternatively, you may email your comments on an agenda item to the Water Advisory Committee at iwsadministration@crd.bc.ca. Requests must be received no later than 4:30 p.m. two calendar days prior to the meeting.

6. General Manager's Report

- *Strategic Plan Update*

7. Committee Business

- 7.1. [24-906](#) Presentation: Wildfire Management and 2024 Update
Recommendation: There is no recommendation. The presentation is for information only.
Attachments: [Presentation: GVWSA Wildfire Management and Thinning Update](#)
- 7.2. [24-905](#) Presentation: Demand Management Program Update
Recommendation: There is no recommendation. The presentation is for information only.
Attachments: [Presentation - Demand Management Update](#)
- 7.3. [24-904](#) Water Advisory Committee Proposal - Agricultural Water Rates
Recommendation: There is no recommendation. The report is for information only.
Attachments: [WAC Proposal: Agricultural Water Rates](#)
- 7.4. [24-902](#) Summary Recommendations from the Regional Water Supply Commission
Recommendation: There is no recommendation. This report is for information only.
Attachments: [Summary of Recommendations](#)
- 7.5. [24-901](#) Water Watch Report
Recommendation: There is no recommendation. The report is for information only.
Attachments: [Water Watch Report](#)

8. Notice of Expiring Terms - December 31, 2024

- *Kathleen Zimmerman, Agricultural*
- *Alex McCardle, Agricultural*
- *Adam Pakvis, Commercial & Industrial Water User*
- *Katie Oppen, Scientific*
- *Taylor Krawczyk, Agricultural*
- *Wilf Scheuer, Commercial / Industrial*
- *David Timothy, Fish Habitats*

9. New Business

10. Adjournment

Next Meeting: December, To be Confirmed



Making a difference...together

MINUTES OF A MEETING OF THE Water Advisory Committee, held Tuesday, May 28, 2024 at 12 p.m., Goldstream Meeting Room, 479 Island Highway, Victoria, BC

PRESENT: **PRESENT:** **Members:** K. Oppen (Chair); K. Zimmerman (Vice Chair)(EP); M. Doehnel; A. Fernandes (EP); K. Harper; T. Krawczyk (EP); A. McArdle; A. Pakvis (EP); T. Pedersen; J. Rogers; W. Scheuer; M. Turner;
Staff: A. Fraser, General Manager, Integrated Water Services; S Irg, Senior Manager, Infrastructure Water Operations; Annette Constabel, Senior Manager, Watershed Protection; Glenn Harris, Senior Manager, Environmental Protection; Jason Dales, Senior Manager, Infrastructure Wastewater Operations; J. Marr, Senior Manager, Infrastructure Engineering; Shayne Irg, Senior Manager, Infrastructure Water Operations; D. Dionne, Integrated Water Services (Recorder); Mikayla Risvold, Committee & Administrative Clerk
Also in attendance: Gord Baird, Chair, Regional Water Supply Commission; Joanna Winter, Strategic Plan Review Workshop Facilitator

REGRETS: C. Davis; C. Nowakowski; D. Timothy

EP = Electronic Participation

The meeting was called to order at 12:08 pm.

1. TERRITORIAL ACKNOWLEDGEMENT

The Chair provided the Territorial Acknowledgement.

2. APPROVAL OF AGENDA

MOVED by M. Doehnel, **SECONDED** by A. McArdel,
That the agenda be approved.

CARRIED

3. ADOPTION OF MINUTES

MOVED by T. Pedersen, **SECONDED** by W. Scheuer,
That the minutes of the February 27, 2024 Water Advisory Committee meeting be adopted as circulated.

CARRIED

4. CHAIR'S REMARKS

The Chair referred to her email for the structure of today's meeting. There will be a presentation and a high-level discussion and feedback session today with more detailed feedback to be gathered further on in the process.

5. PRESENTATIONS/DELEGATIONS

There were none.

6. GENERAL MANAGERS REPORT

A. Fraser introduced staff in the room who are present to support the strategic planning process.

7. COMMITTEE BUSINESS

7.1. Regional Water Supply Strategic Plan [Presentation]

A. Fraser introduced Joanne Winter, who facilitated the workshop portion of the meeting.

Throughout the presentation feedback was gathered from the Committee and is attached to the minutes as Appendix A.

Next steps, staff will incorporate the Water Advisory Committee's feedback and refine the Strategic Plan Actions. There will be a similar workshop seeking feedback from the Regional Water Supply Commission on July 17, 2024. Once guidance from the Commission has been received, the Strategic Plan will go out for public engagement. Once engagement has completed the Plan will be brought back for final approval.

MOVED by A. McArdle, **SECONDED** by W. Scheuer,
The Water Advisory Committee recommends to the Regional Water Supply Commission the endorsement of the draft 2025 Strategic Plan for the Greater Victoria Water Supply System, as amended by the feedback received during the Water Advisory Committee meeting of May 28, 2024.

CARRIED

7.2. Water Advisory Committee Proposal – Agricultural Water Rates

Water Advisory Committee members prepared a summary of comments related to the Agricultural Water Rate Study which contains several recommendations, including not proceeding with a change to the agricultural water rate. Staff noted that the Committee could request that the Regional Water Supply Commission put the study on hold until further review by the Committee.

MOVED by W. Scheuer, **SECONDED** by T. Pedersen,
The Water Advisory Committee recommends to the Regional Water Supply Commission that the Agricultural Water Rate Study be paused until further review by the Water Advisory Committee.

CARRIED

7.3. Summary of Recommendations from Regional Water Supply Commission

Received for information.

7.4. Water Watch Report

Received for information.

8. NEW BUSINESS

There was no new business.

9. ADJOURNMENT

MOVED by M. Turner, **SECONDED** by J. Rogers,
That the May 28, 2024 meeting be adjourned at 2:27 pm.

CARRIED

CHAIR

SECRETARY

DRAFT

**Water Advisory Committee Feedback
Regional Water Supply Strategic Plan Commitments:**

Internal and External Trends:

As customers, ratepayers, experts, what do you think are the things that we will need to focus on in the next five plus years?

- Climate Instability (drought / extreme weather)
- Cyber Security
- Food Security
- Drinking Water Security
- Emergency Water Sources
- Reconciliation
- Irrigation (risk)

Mission Statement – Discussion / Comments:

Together we provide reliable, high-quality drinking water to help ensure the health and sustainability of the growing communities we serve today and in the future.

- There were concerns raised with limiting the wording to drinking water and excluding other water uses. G. Baird clarified the Regional Water Supply Commission's authority and that its focus is on quality drinking water which can be used for other water uses.
- There was discussion regarding what other mission statements reflect and staff noted that they are all very different depending on the utility and the type of services provided.
- J. Winter reminded the Committee that the plan will be reviewed every five years and can be modified as may be required.

Commitment 1 – comments on proposed priorities noted in red:

Provide high quality, safe drinking water.

1. **Manage** Protect (use a more proactive word than manage) the Greater Victoria Water Supply Area for the protection of long-term sustainable high-quality source water.
2. Ensure drinking water quality with a multi-barrier risk-based approach.
3. Advance our understanding of the water supply area (or watershed?) and source water to prepare for the future.
4. There should be a formal acknowledgment of outdoor water use / irrigation water in the new Strategic Plan. Acknowledging irrigation's importance to:
 - the local ecology
 - restoration of degraded lands
 - local food production
 - also its associated risks (the irrigation tap turns off when the rains stop).

Commitment 2 – comments on proposed priorities noted in red:

Provide an adequate, reliable, long-term supply of drinking water – comments on proposed priorities.

1. Continuously plan and prepare for future water supply needs (~~including landscaping, irrigation, agriculture, ecological~~).
2. Enhance public ~~connection and~~ confidence ~~and responsibility~~ of the water supply and value of water.
3. ~~Maximize~~ Optimize our ~~available sustainable~~ water supply through adaptive demand management strategies.
4. ~~Act now to~~ Implement a sustainable and equitable long-term financial plan.

There was discussion regarding the use of “Act now” in Priority 4, staff stated the intent is to begin now with long-term financial planning, rather than waiting until it is needed.

Commitment 3 – comments on proposed priorities noted in red:

Provide efficient, effective and innovative operations of water system infrastructure – comments on proposed priorities.

1. Make ~~data driven-(science-based or evidence-based)~~ decisions to ensure reliable system performance and long-term sustainability.
2. Assure long-term sustainability and capacity of water management operations through sufficient resources, robust processes, strategic partnerships, effective tools, and continuous innovation.
3. ~~Protect the public by e~~Enhancing the security and sustainability of the water supply by effectively managing risks and enhancing emergency response capabilities.
4. Attract, develop, and retain a diverse, ~~and high performing knowledgeable and empowered~~ workforce.

Guiding Principles:


1. Empowering staff for sustainable water management
2. Supporting a growing region with reliable service
3. Respecting and adapting to the changing environment
4. Managing our resources effectively and efficiently
5. Proactively managing internal and external risks
6. Fostering collaborative relationships with customers and partners to improve our service

Things not specifically mentioned (expand to guiding principles):

- Environment
- Food security
- Municipalities
- Inter-connection with other services (agriculture, wastewater etc.)

2024 GVWSA Wildfire Management

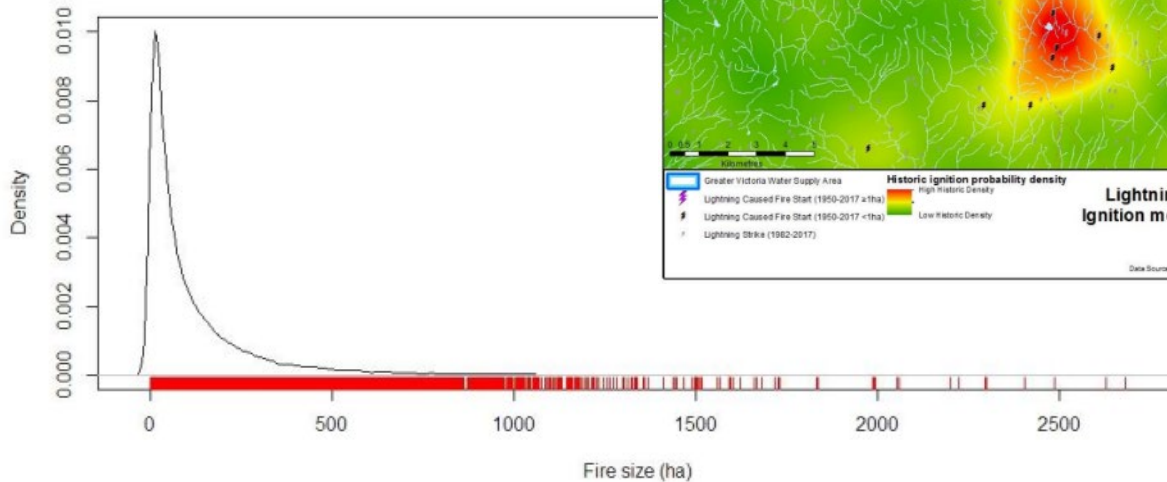
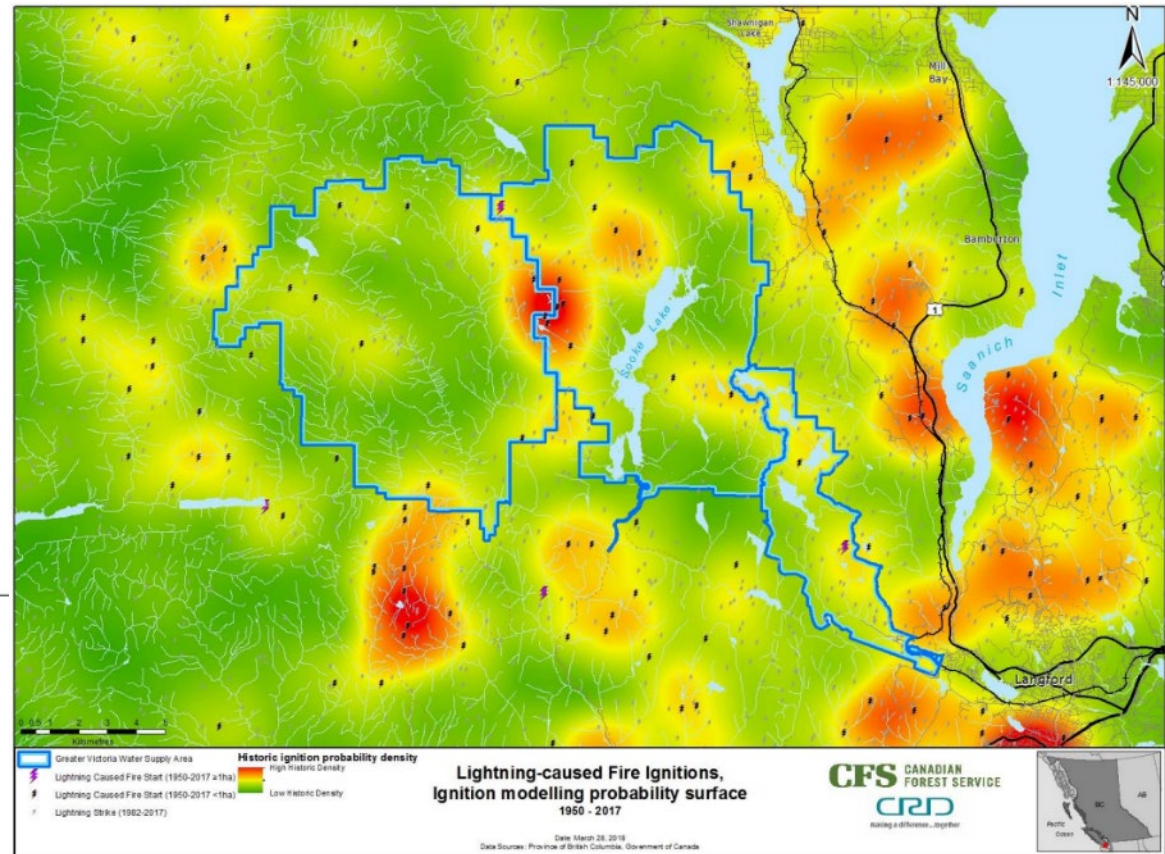
WAC Meeting Sept 2024

- Wildfire Risk
 - Climate and Fire Danger
 - Wildfire Prevention Planning and Preparedness
 - Wildfire Detection
 - Wildfire Response
 - 2024 Wildfires
 - Forest Fuel Management
- 

Wildfire Risk

Wildfire is the greatest single risk to source water quality:

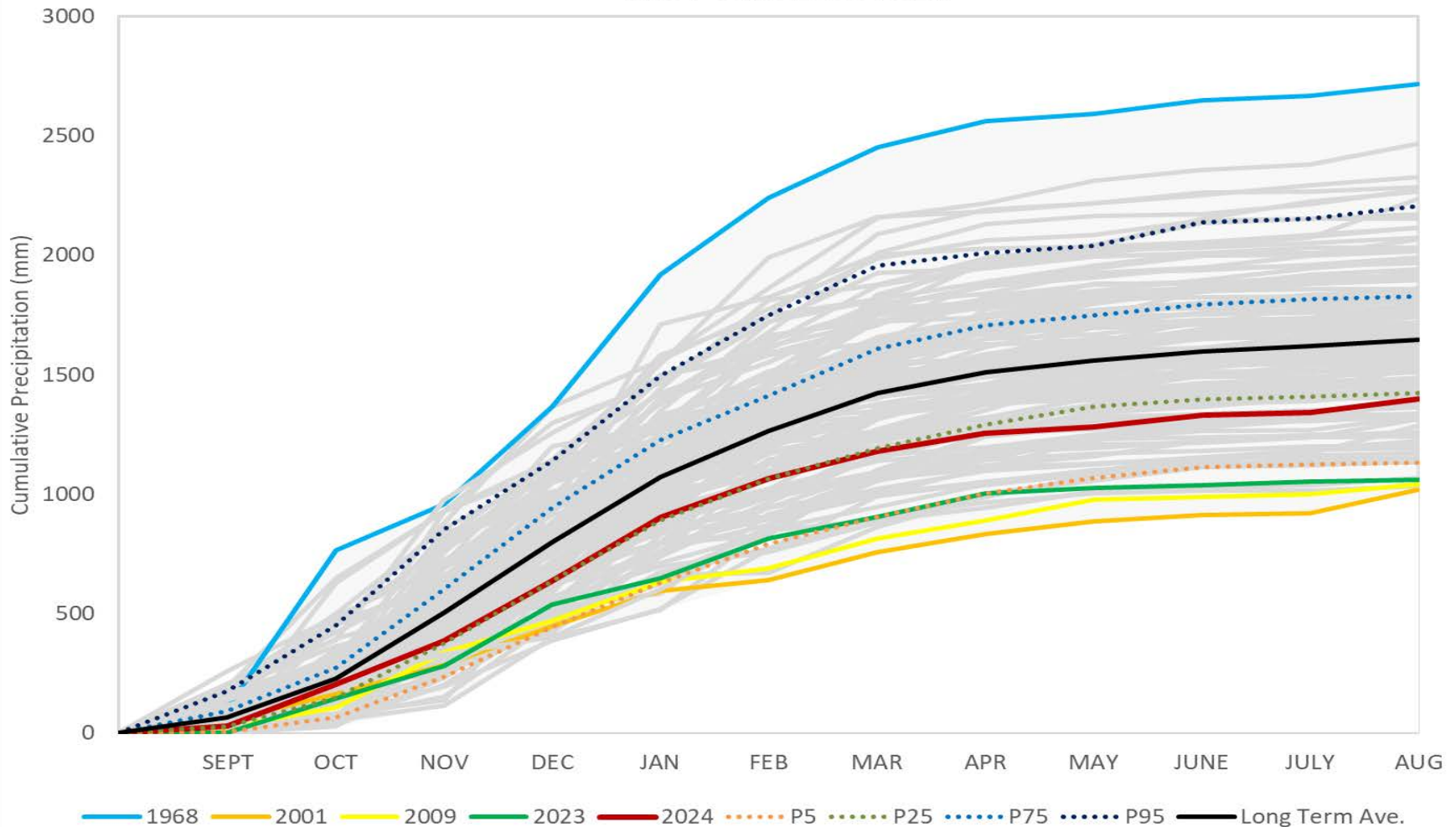
- Most fires < 4 Ha
- Large fire
Low Chance
High Consequence



Source: CFS Wildfire Risk Analysis for the CRD Greater Victoria Water Supply Area

Climate and Fire Danger

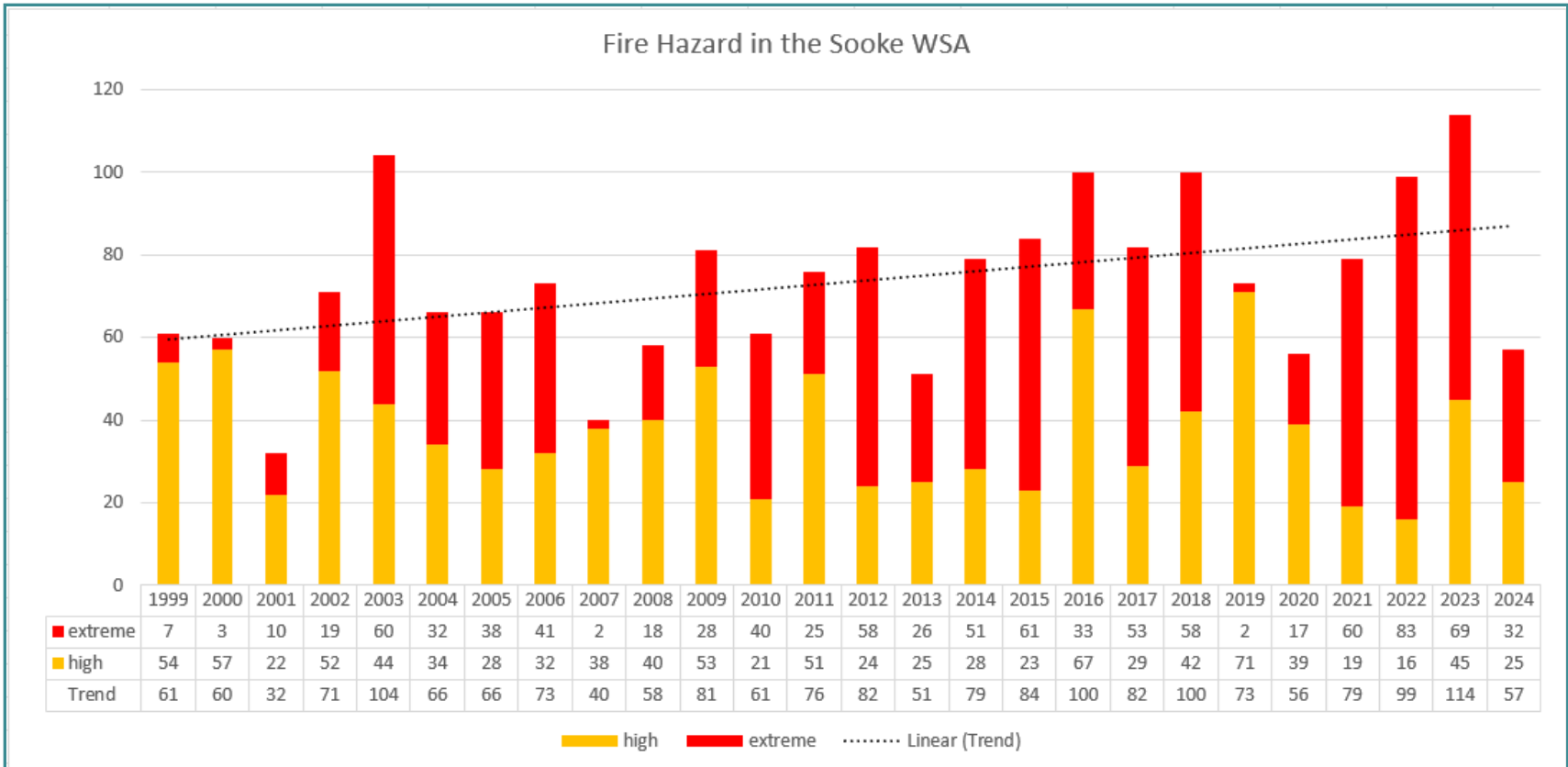
Cumulative Annual Precipitation at Sooke Lake
Water Years 1896-2024



Climate and Fire Danger



Making a difference...together



GREATER VICTORIA WATER SUPPLY AREA

WILDFIRE MANAGEMENT PLAN



CAPITAL REGIONAL DISTRICT
INTEGRATED WATER SERVICES
WATERSHED PROTECTION
2015

Table 3. Level of Readiness Guidelines - Initial Attack Patrols and Standby Schedule

DMC	Fire Danger				
	Very Low I	Low II	Moderate III	High IV	Extreme V
≤17	WEDO 1-IA	WEDO 1-IA	WEDO 2-IA	WEDO 2-IA	WEDO FO 3-IA 4-5/B
18-40	WEDO 2-IA	WEDO 2-IA	WEDO 2-IA	WEDO 3-IA 2-5/B	WEDO FO 3-IA 5-5/B
41-90	WEDO 2-IA	WEDO 2-IA	WEDO 3-IA 3-5/B	WEDO FO 3-IA 2-5/B	WEDO FO 3-IA 6-5/B
≥91	WEDO 2-IA	WEDO 2-IA	WEDO FO 3-IA 2-5/B	WEDO FO 3-IA 4-5/B	WEDO 2-FO 3-IA 7-5/B

Definitions

WEDO	Watershed Emergency Duty Officer Standby
FO	Fire Officer on Standby and available within 30 minutes
I/A	Wildfire Response Crew (can be two fire fighters with IA vehicle or can be single person prevention and detection patrol depending on needs)
2-5/B	Two person Standby Fire Crew available within 30 minutes
3-5/B	Three person Standby Fire Crew available within 30 minutes
4-5/B	Four person Standby Fire Crew available within 30 minutes
6-5/B	Six person Standby Fire Crew available within 30 minutes
7-5/B	Seven person Standby Fire Crew available within 30 minutes

Wildfire Prevention Planning and Preparedness

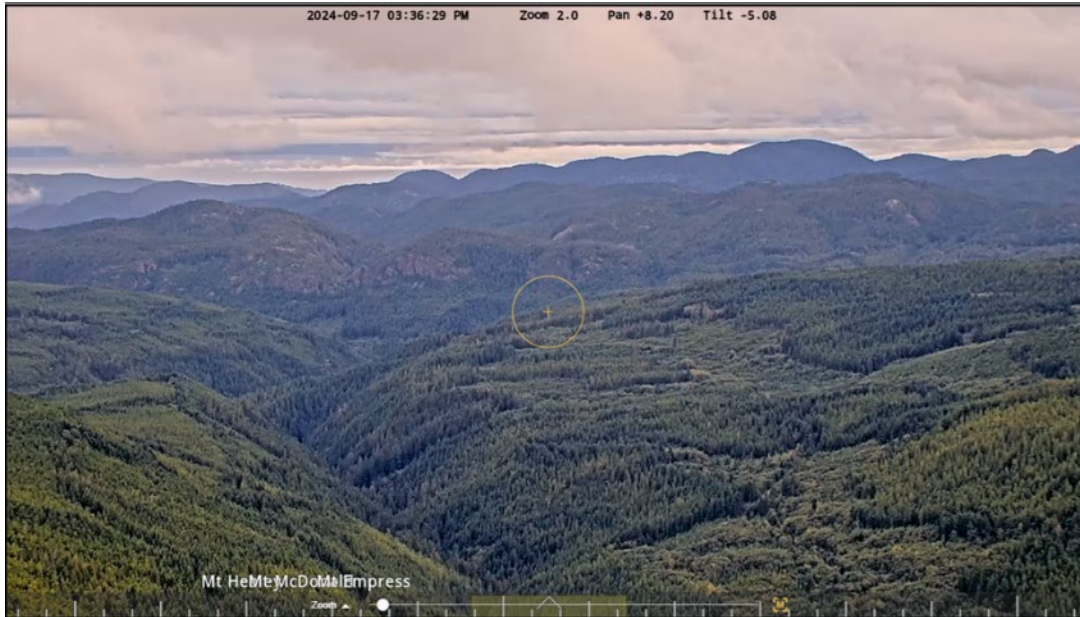


Keep public out

Keep staff informed



Wildfire Detection



Survey Mountain Camera

- Ground Patrols using drones and vantage points
- Air Patrols (contract with Victoria Flying Club)
- Mountain Top Cameras (Healey and Survey)
- Lightning and Weather monitoring
- Public Reporting (BCWS)



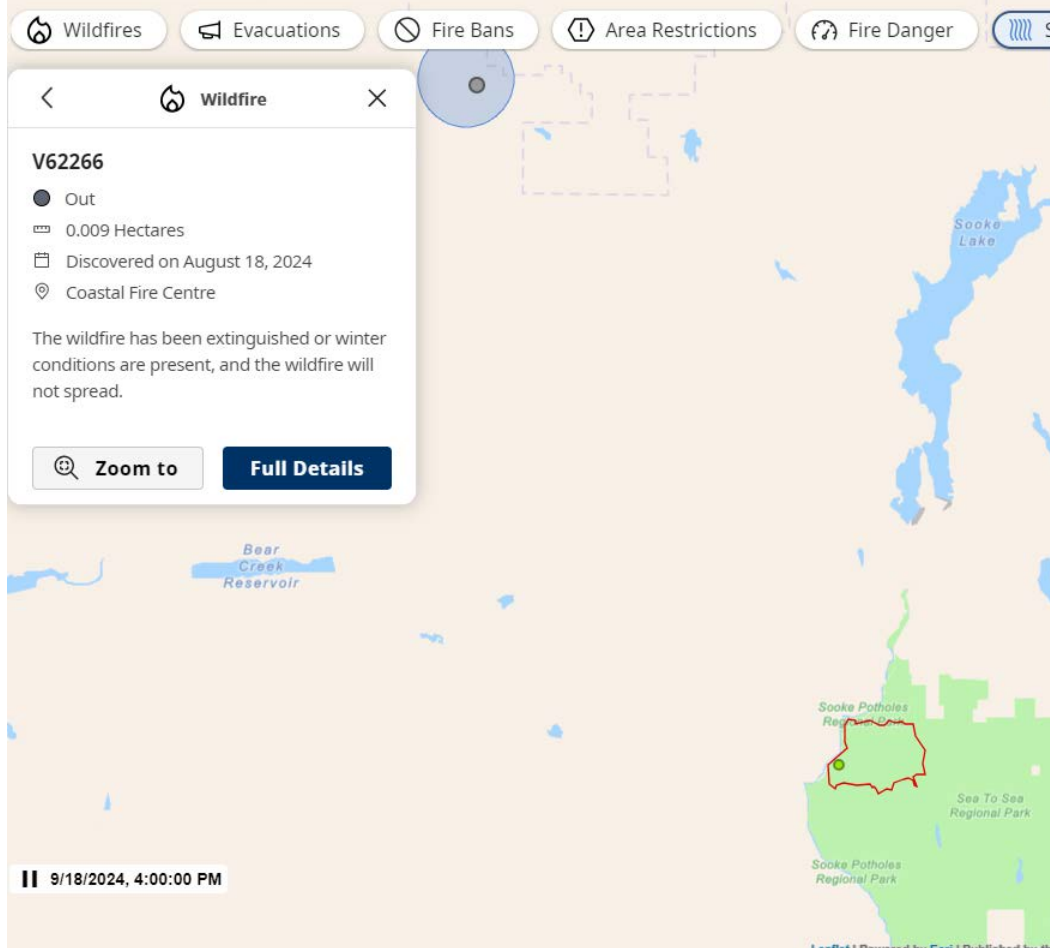
Wildfire Response



Fire Response Resources:

- Trained and outfitted staff
- Sufficient Tools and water delivery

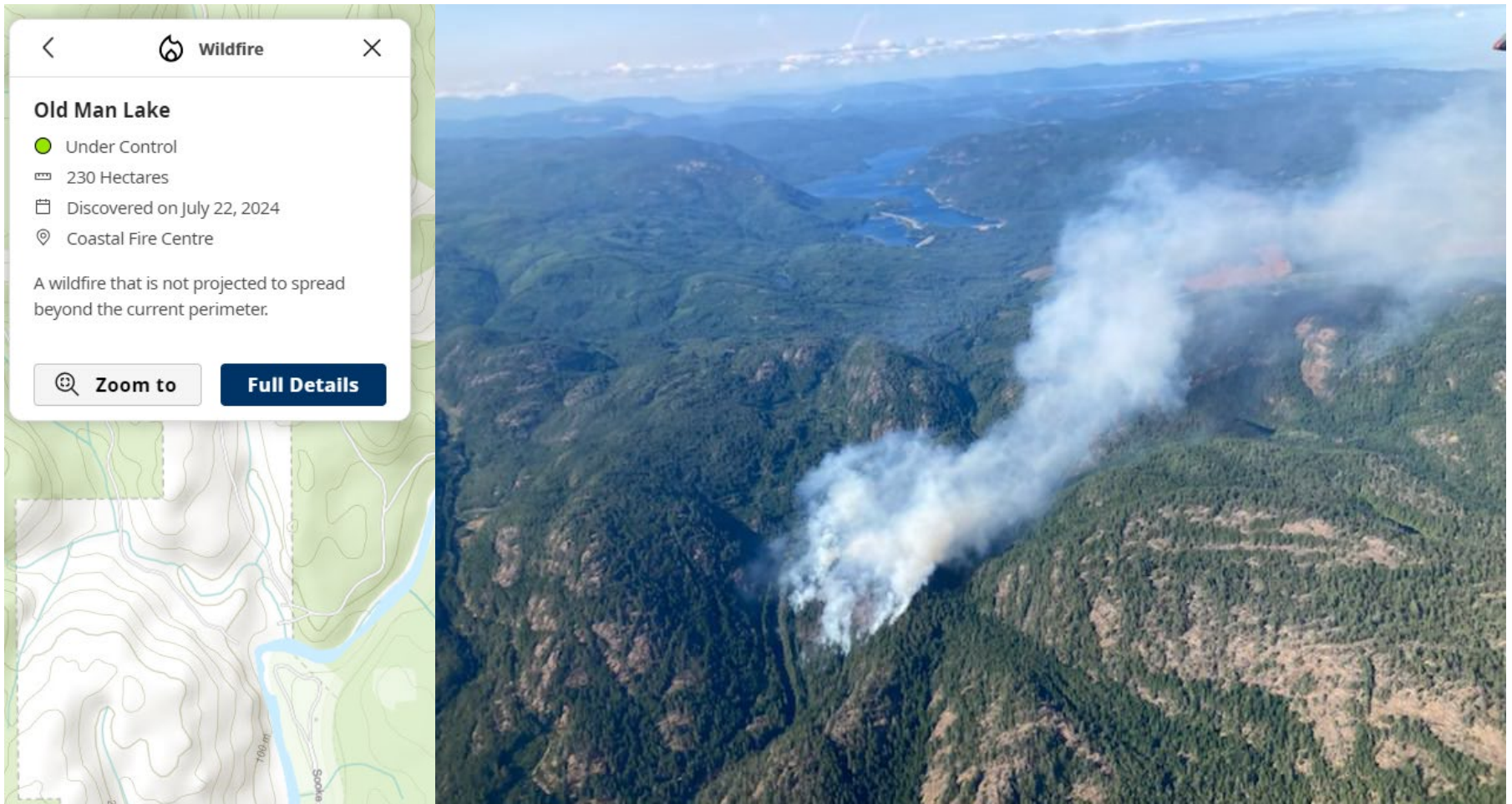
2024 Wildfires



One fire in the Watershed, one in Park

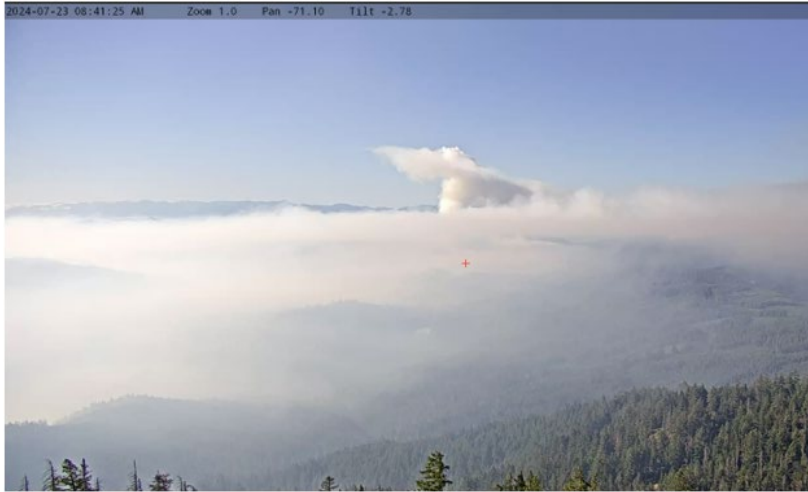
V62266

2024 Wildfires Old Man Lake fire, V61404

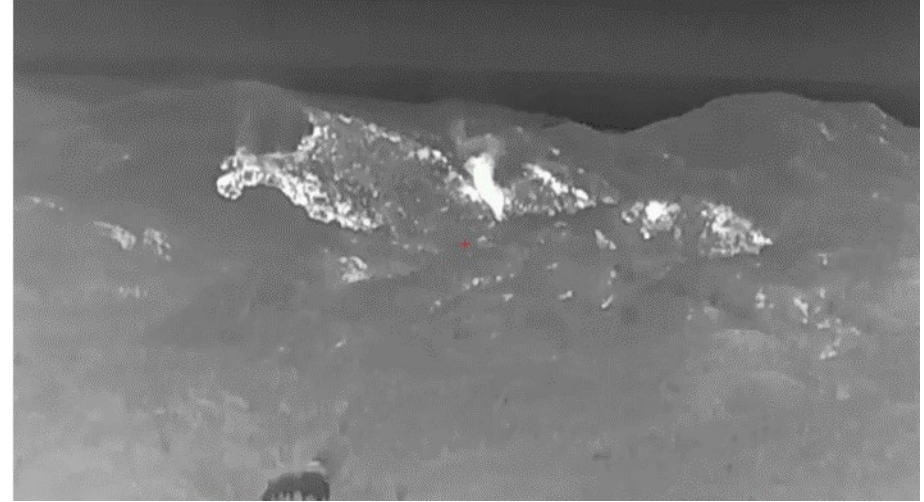


Old Man Lake fire, V61404

2024 Wildfires Old Man Lake fire, V61404



July 23 8:40 am, visible and IR

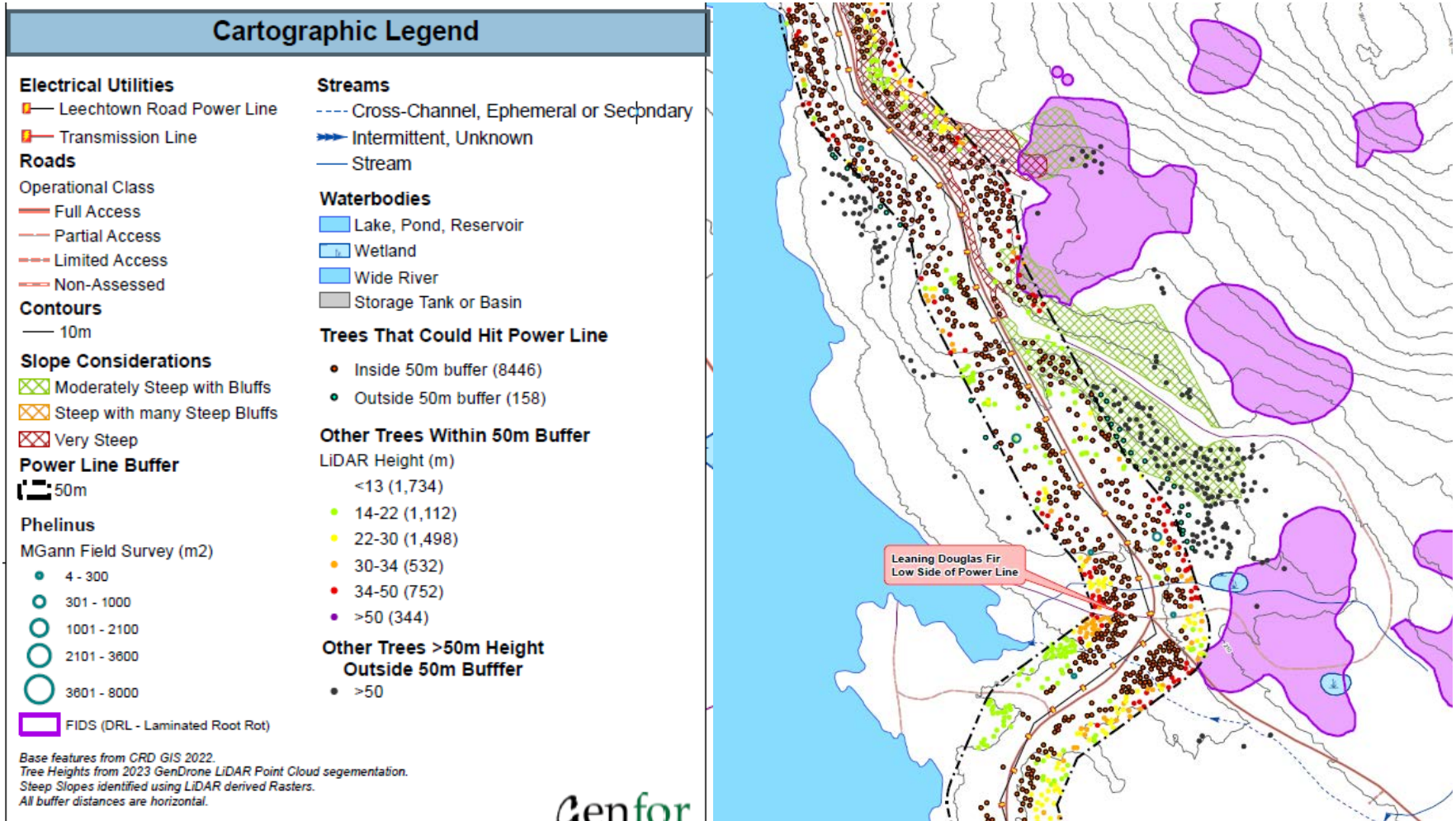


July 23 4:40 pm (IR), and airtanker July 26

Forest Fuel Management



Powerline Wildfire Risk Mitigation

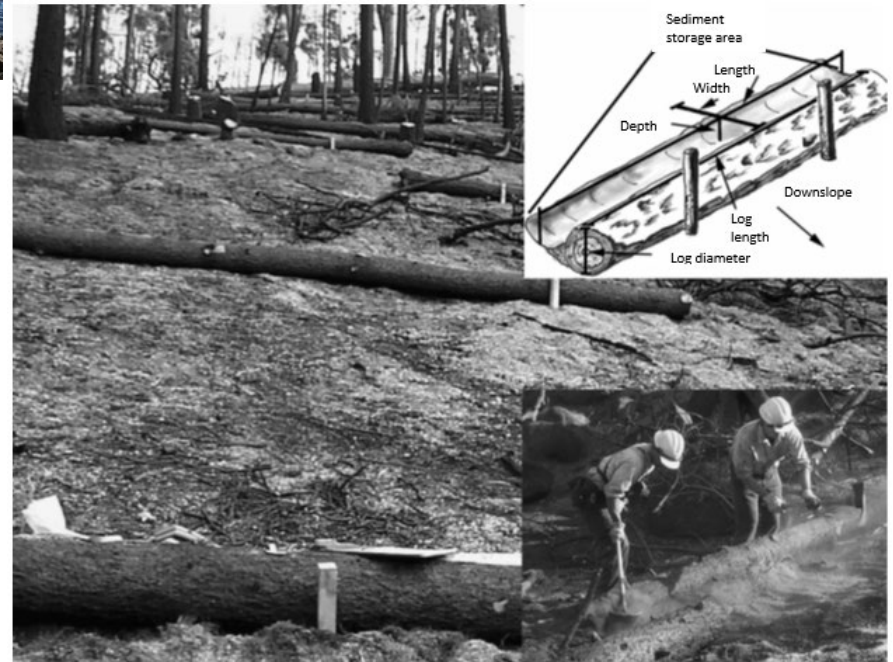


Post Wildfire Mitigation Preparedness



Sediment Curtains filter fine debris out of moving water in the event a storm or fire creates an issue in a stream entering the reservoir

Log Erosion Barriers (LEB's) are logs placed in shallow trench along contour to trap sediment.



Must be installed correctly to be effective!

Questions?



2024 Update of Demand Management in the Region

Kristi Wilson – Demand Management Coordinator
Danielle Buckle – Residential Outreach & Education

Presentation to the Water Advisory Committee
September 23, 2024



What is Demand Management?

- Manage the regional drinking water service through adjustments to water demand.
- How much water is being used (daily, seasonally, annually)?
- Who is using the water – when, where, why?
- Can we measure and model the Demand Curve?
- How do we influence the Demand Curve?
- How do we apply our understanding of the Demand Curve?
(operationally, infrastructure planning, strategic planning)

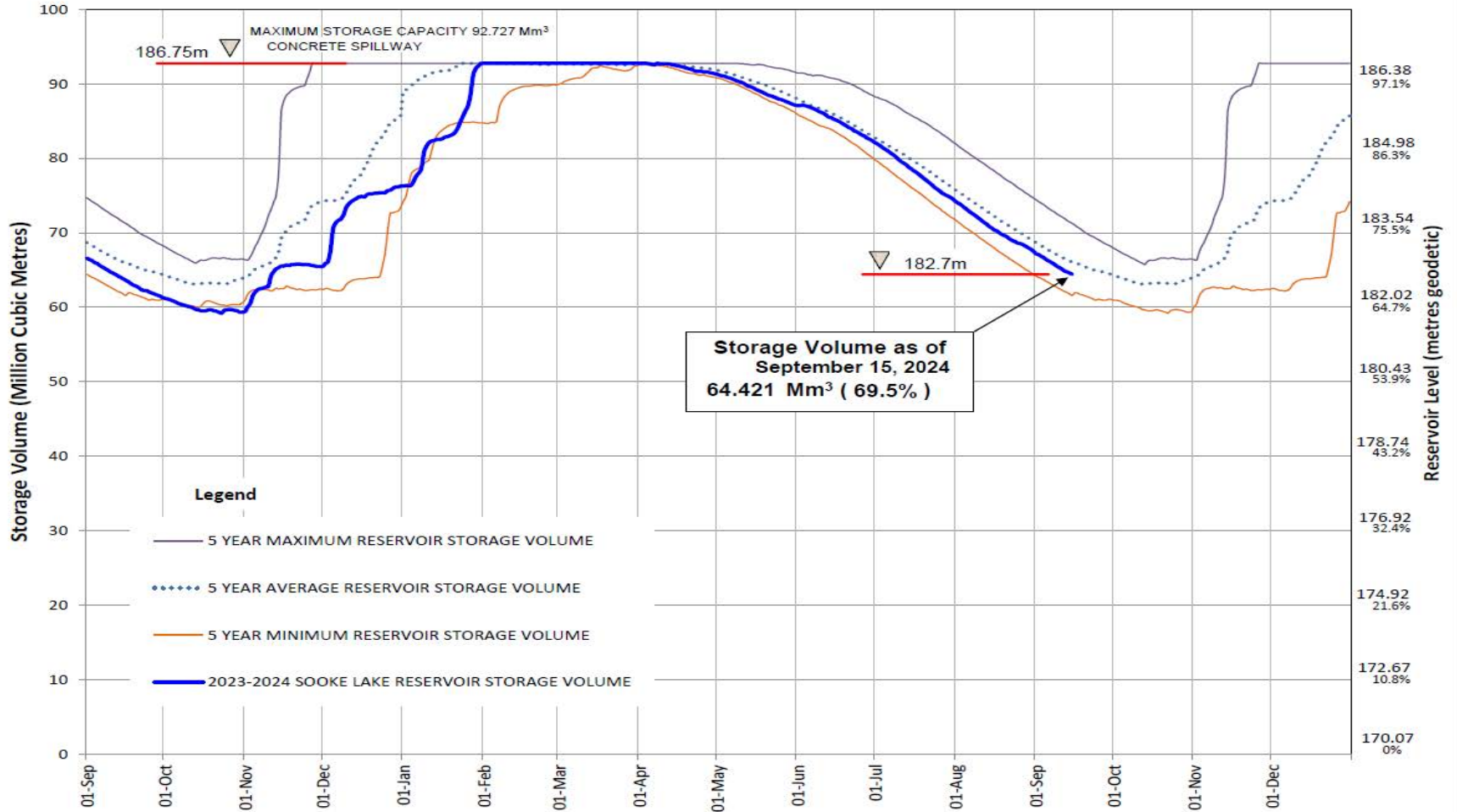
1. Research & Data Analysis

2. Residential Outreach & Education

3. ICI Outreach & Education

**Using Our Water Resources Efficiently
Helps Improve the Long-term
Sustainability of Regional Priorities such
as Local Food Production & Tourism**

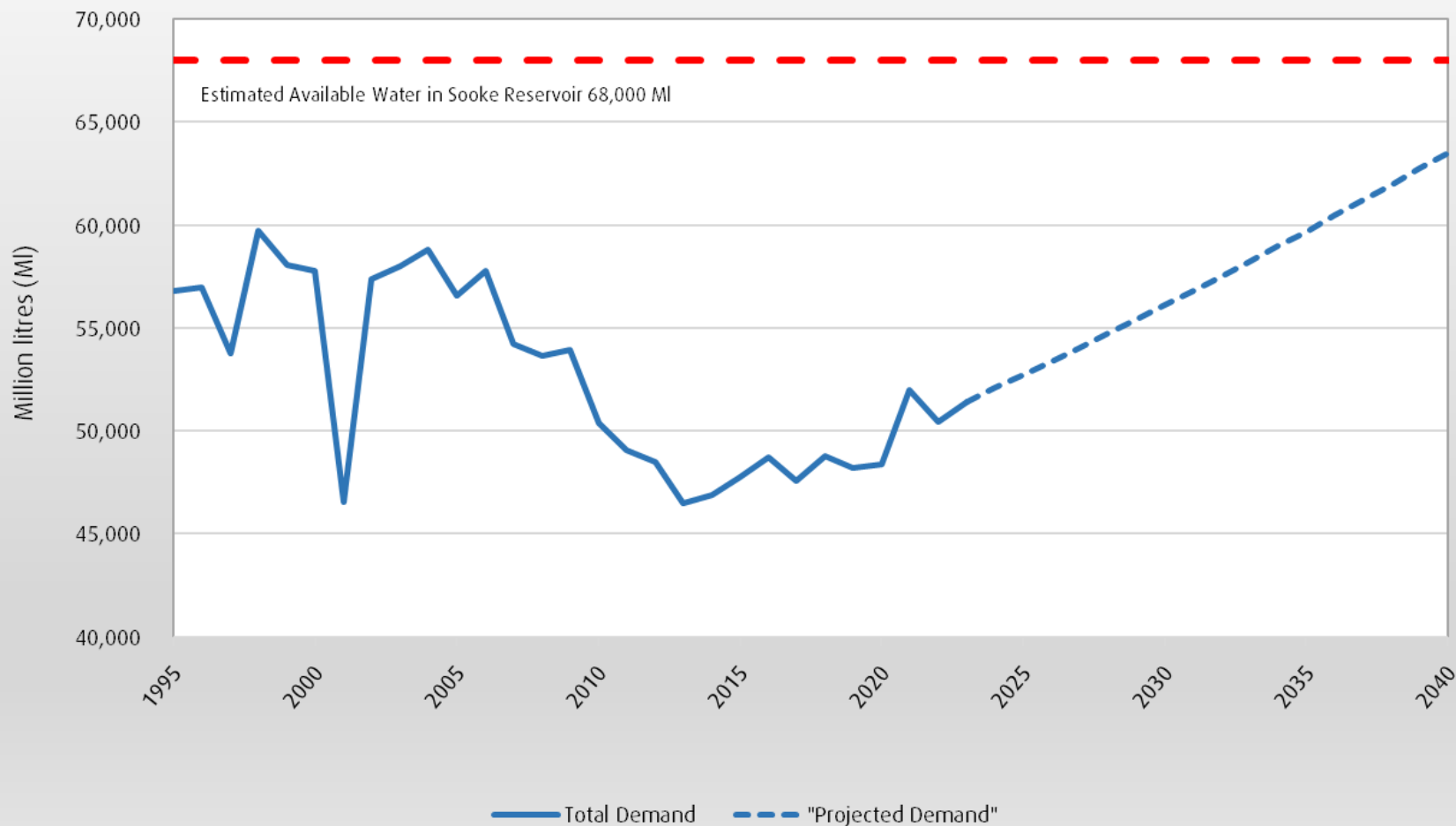
SOOKE LAKE RESERVOIR STORAGE SUMMARY 2023 / 2024



Total Supply & Demand



Total Regional Supply and Demand



2023 Proportional Regional Demand by Land Use

Residences – 68%

(single family, multi-family,
condos, First Nations, mobile homes)

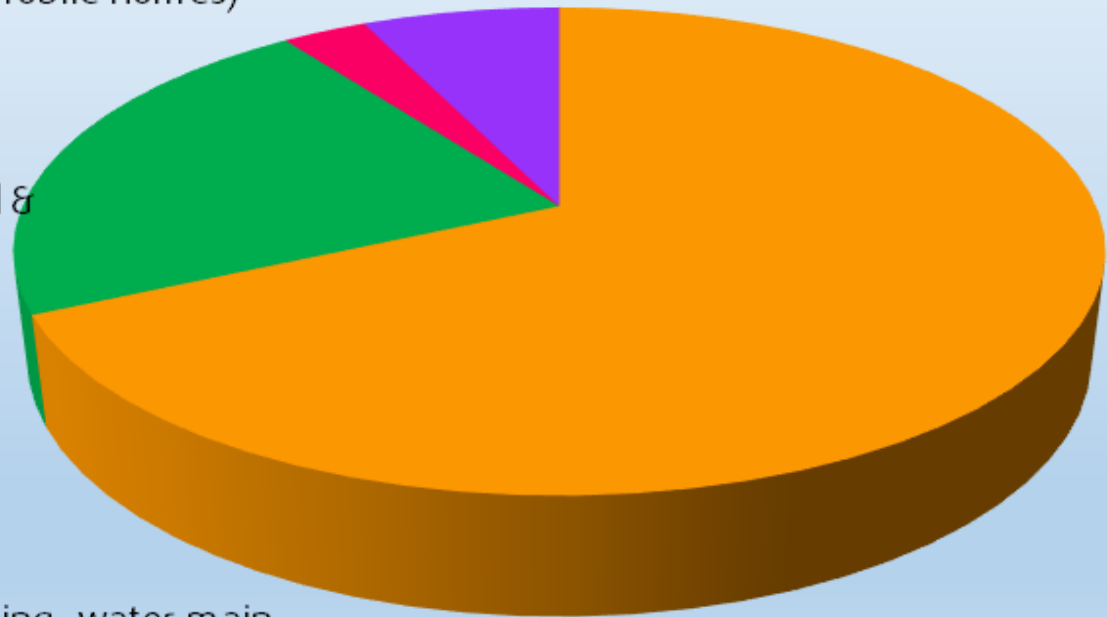
ICI – 22%

(industrial, commercial &
institutional users)

Agricultural – 3%

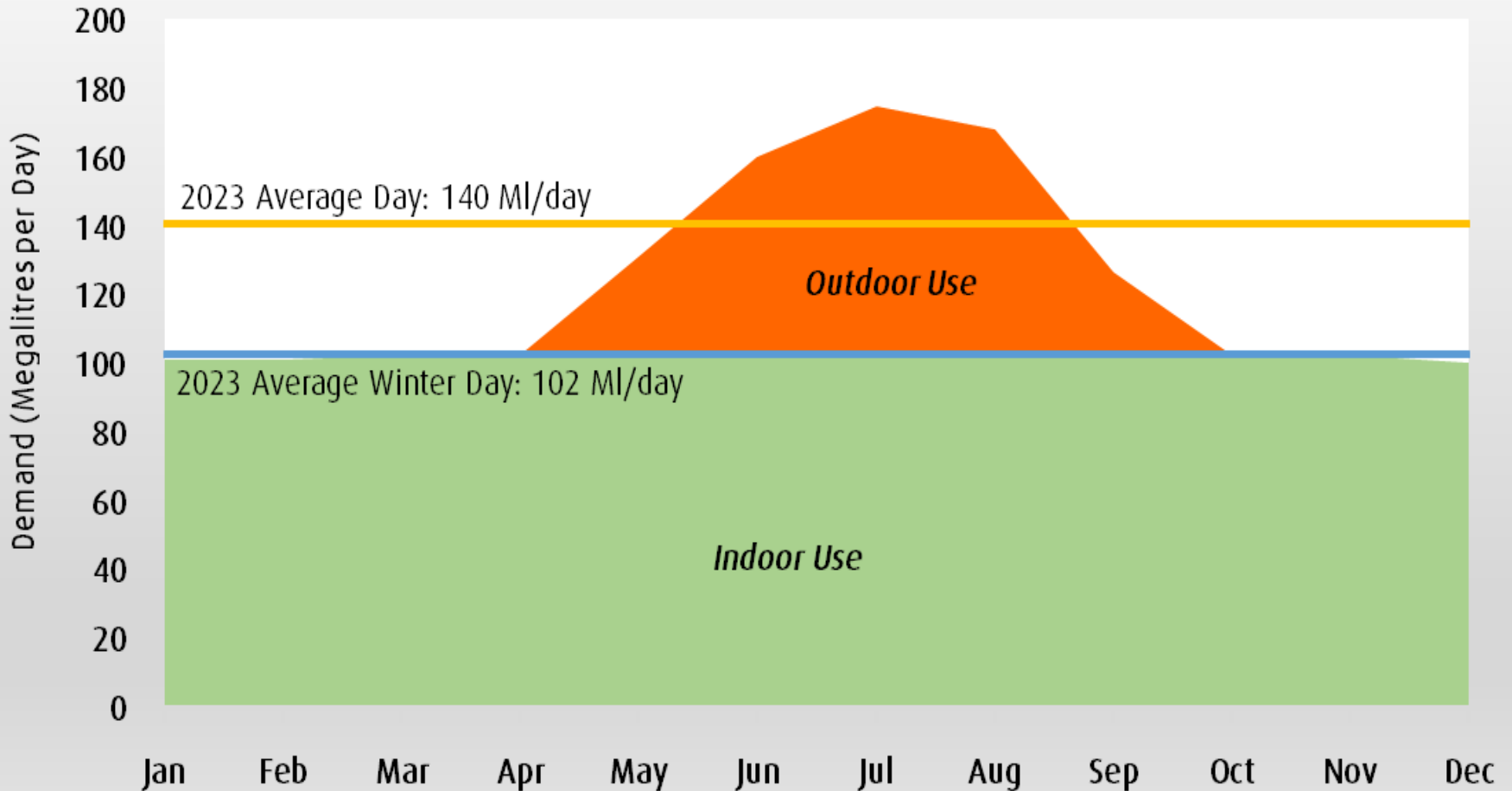
Non-revenue – 7%

(leaks, losses, fire fighting, water main
flushing)

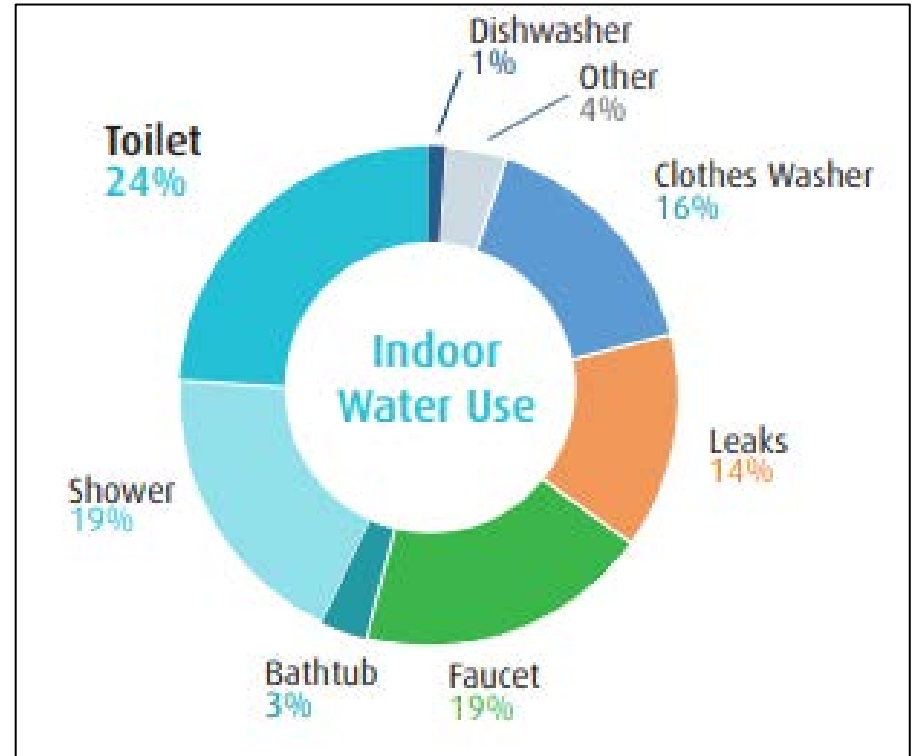


Indoor vs. Outdoor Demand

2023 Indoor Vs. Outdoor Demand (Megalitres per Day)



Residential Outreach & Education



Be a
Leak Detective
for



Fix a Leak Week

Residential Outreach & Education

CRD

Water Wise Lawn Care

Information Sheet

CRD
Making a difference...together

Water Conservation

A healthy lawn needs less water.

Look inside this booklet to find tips on how you can create a resilient lawn that is beautiful, less costly and better for the environment.



Why use water wisely?

Climate change will cause longer summer droughts which puts pressure on our drinking water system. Being careful with our water use helps build resilience in our system, making sure there is enough water for all of us, including ecosystems and fish too.



Project #5242

Residential End Uses of Water, Version 3: A Single-Family and Multi-Family Study

Date Started
JUN 1, 2024

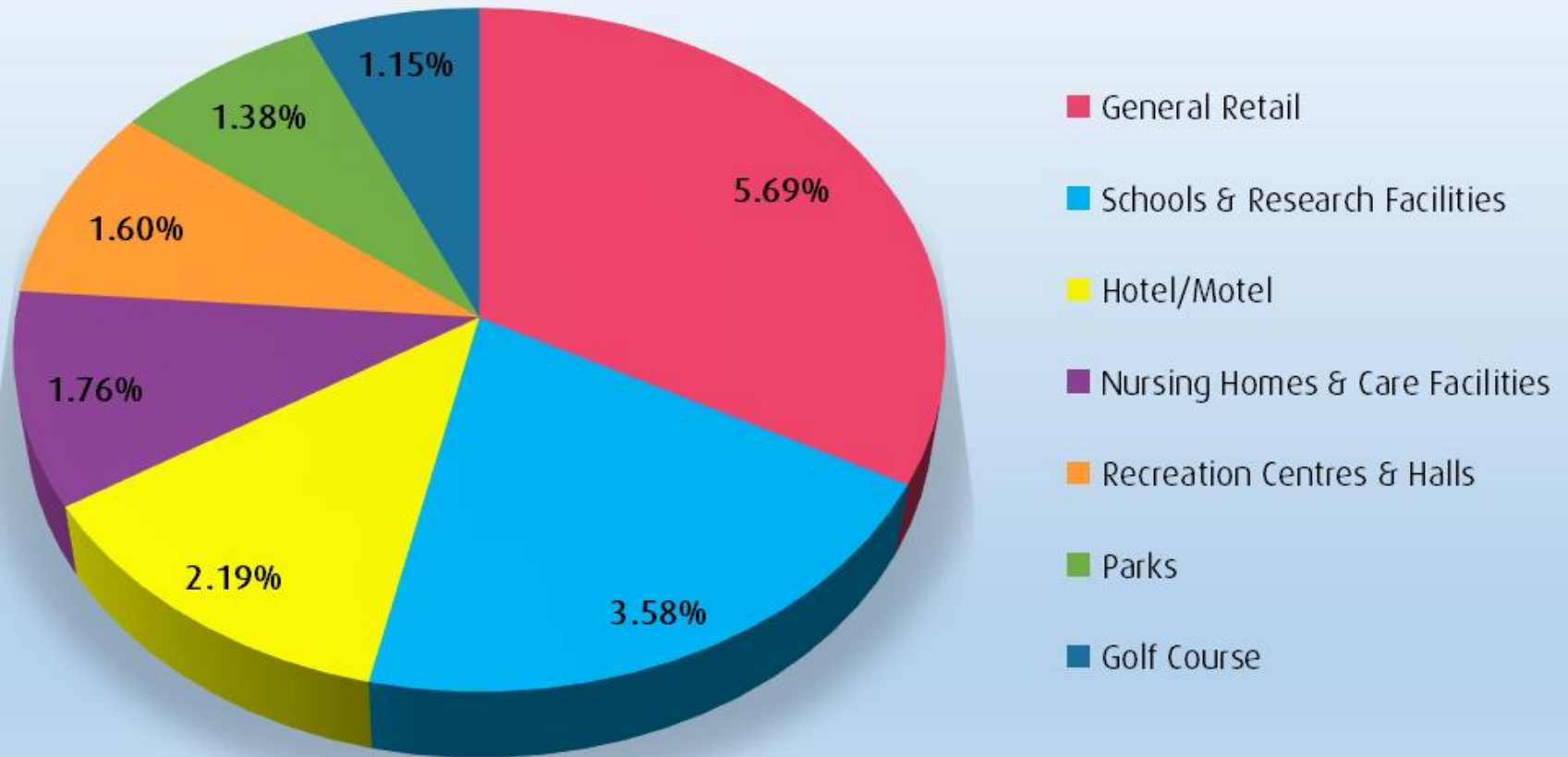
Principal Investigator
PETER MAYER

Research Manager
SYDNEY SAMPLES

Contractor
FLUME



2023 Top Demand by ICI Category



ICI Current Programs

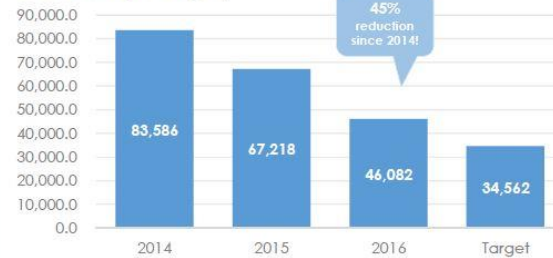


- Water Use Assessments for Businesses
 - Sector by sector approach
 - Free aerator replacements



Water Use by Year

Water Use by Year (m³)



Analysis

Water use at the Hotel XYZ has reduced significantly since 2014, reducing 20% in 2015 and 31% in 2016. These water savings are due to the removal of water-cooled equipment in the kitchens and restaurant. Continuing to replace fixtures with low-flow units and replace water cooled equipment with air-cooled models, will lead to further water and cost savings.

Industry Comparison

Annual Water Use* vs. Other Hotels



	Hotel Average	XYZ Av.
m ³	5,389.1	65,628.8
m ³ /Room	158.7	215.9

Water consumption is above average compared to other hotels in Victoria. Calculation based on total water use, and water use per guest room.

Water Savings Identified

Area	Potential Savings*			Upgrade Cost	ROI
	m ³	\$	tCO ₂ e		
Restaurant, Kitchen & Café	495	\$1,618	0.17	\$32,018	19.8
Guest Suites	8,820	\$28,830	3.03	\$97,054	3.4
Common Areas & Irrigation	2,979	\$11,131	1.16	\$47,345	4.3
TOTALS	12,295	\$41,580	4.36	\$176,417	4.2

*Estimated savings include only actions with identifiable ROIs - see details below.

ICI Current Programs

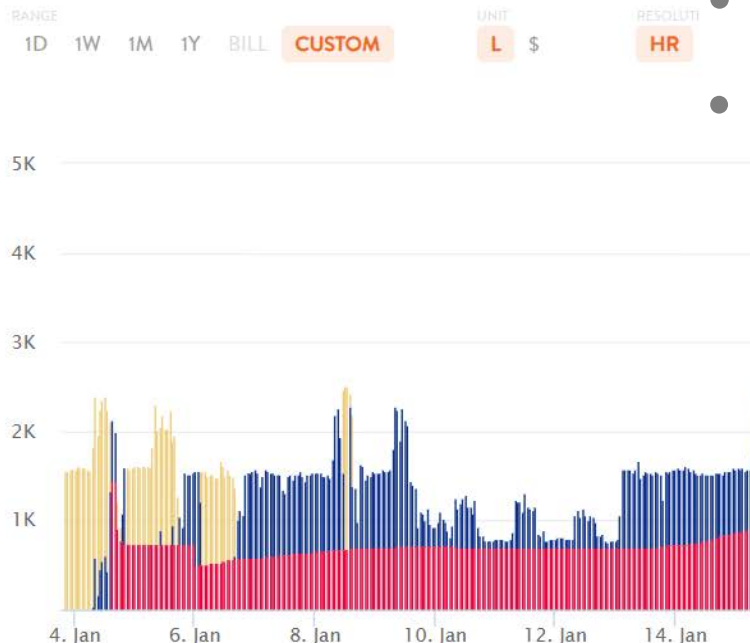


Switch now, save forever!
To learn more and apply,
visit: crd.bc.ca/otc

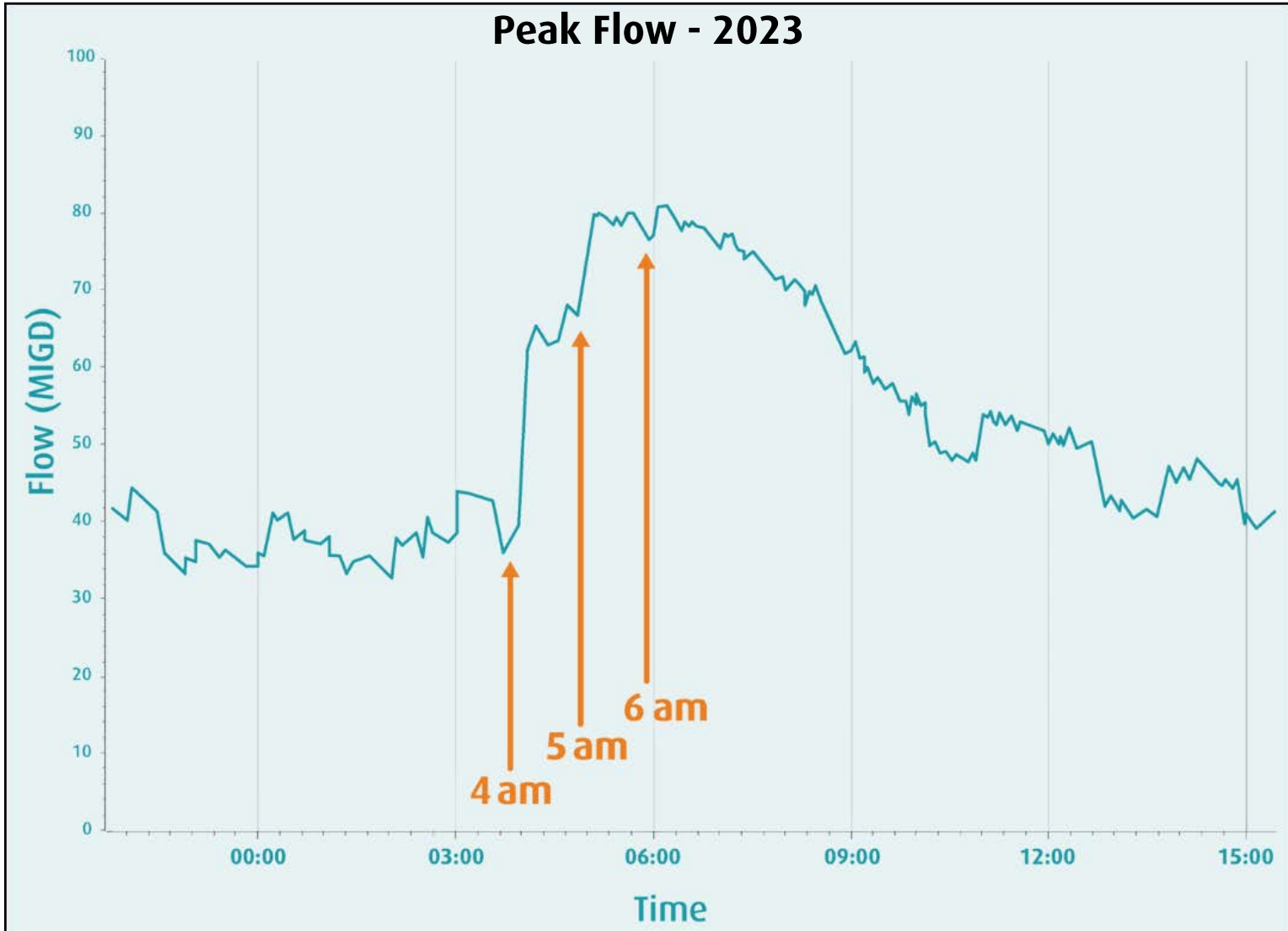


- Once-through cooling (OTC) systems, also known as single-pass cooling systems
 - OTC rebate program ends 2026
 - Regulate starting in 2028
- Agricultural sector research
- Multi-use residential buildings (MURBs) water use management
 - Smart meter pilot

Water Usage



Peak Demands



Peak Demand Outreach



Avoid early morning water use.



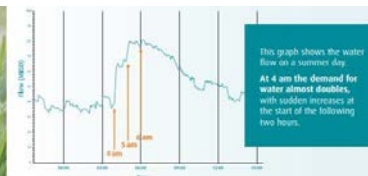
Schedule your irrigation system to start between 12:01-4 am to protect our drinking water.

Learn more at crd.bc.ca/water



Help Protect Our Water!

Thank you for following the water conservation bylaw watering schedules. **Now we need your help!** In recent summers, the Capital Regional District (CRD) has seen high water demand in the mornings of lawn watering days when irrigation systems turn on all at once. This instantaneous high demand for water in the mornings impacts the drinking water system's ability to keep adequate flow and pressure, and maintain water quality.



New Watering Window

To help address this issue, the CRD added a new allowable watering time from **12:01 am to 10 am** for timed irrigation systems to the Water Conservation Bylaw No. 4059.

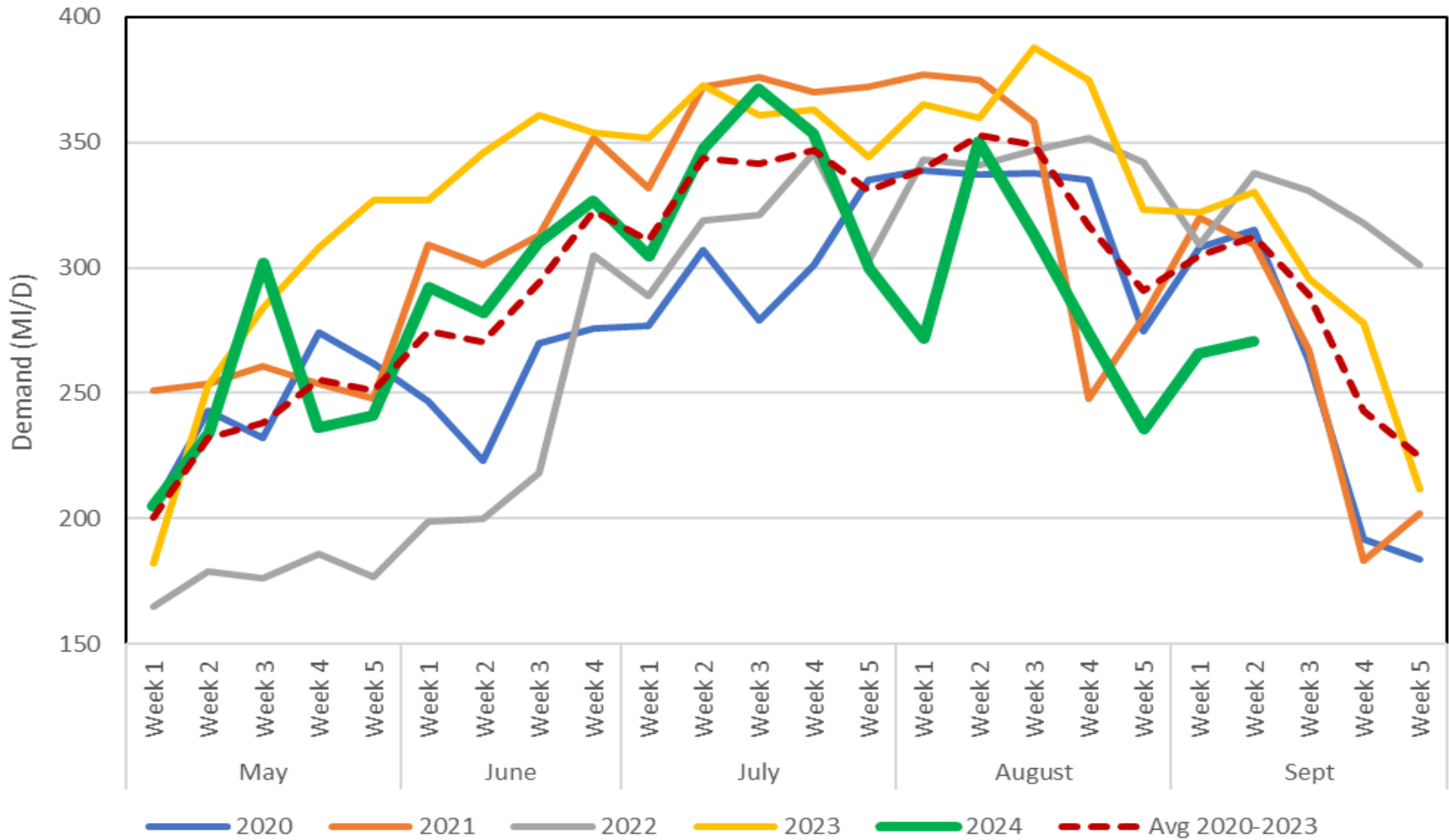
What can you do to help?

- The system needs more water to flow between 12-4 am on lawn watering days. Change your automatic lawn watering to the new overnight watering schedule for timed irrigation systems.
- Stagger your irrigation start times off the hour to help our system.
- Remember! Watering days only apply to lawn watering. Water veggies, flowers, trees and shrubs any day during allowable times.
- Refrain from using large amounts of water between 7-10 am, like starting your dishwasher or washing machine.

Find the updated watering schedule on the other side of this postcard. →

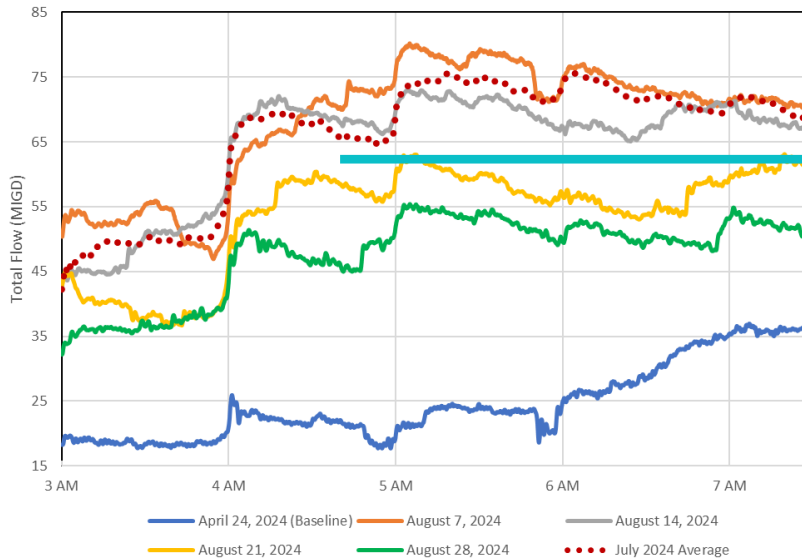
Peak Demands - Results

Instantaneous Peak Demand by Week (MI/D)

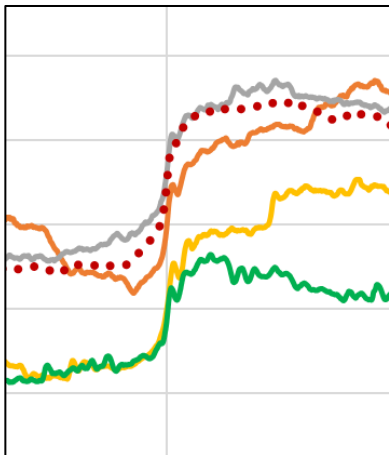
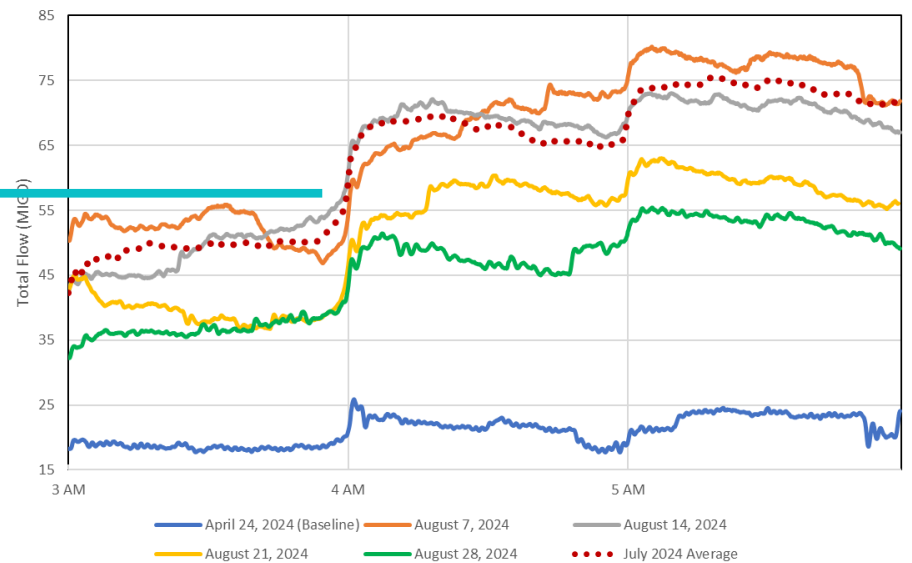


Peak Demands – 4 AM

August 2024
Total Flow Wednesday Mornings - 3 am to 8 am

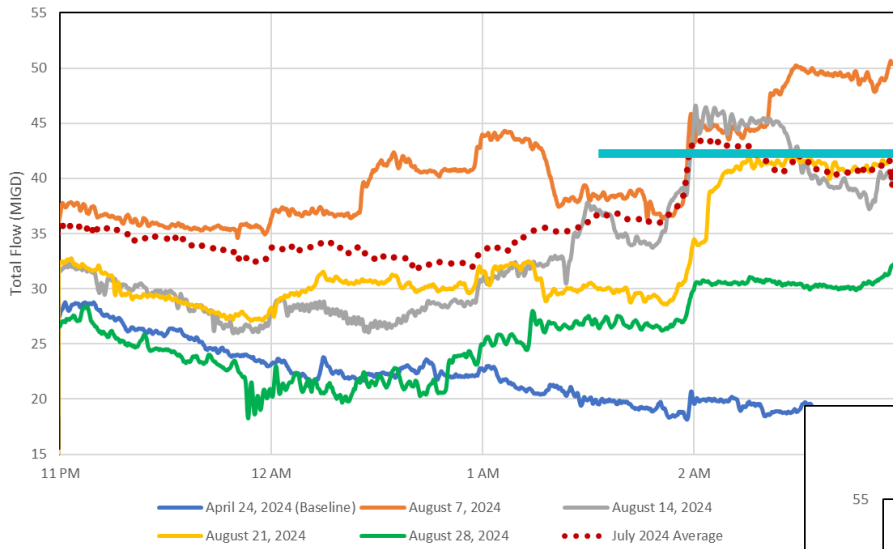


August 2024
Total Flow Wednesday Mornings - 3 am to 6 am

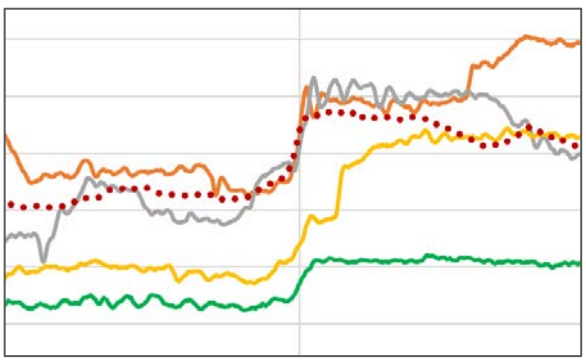
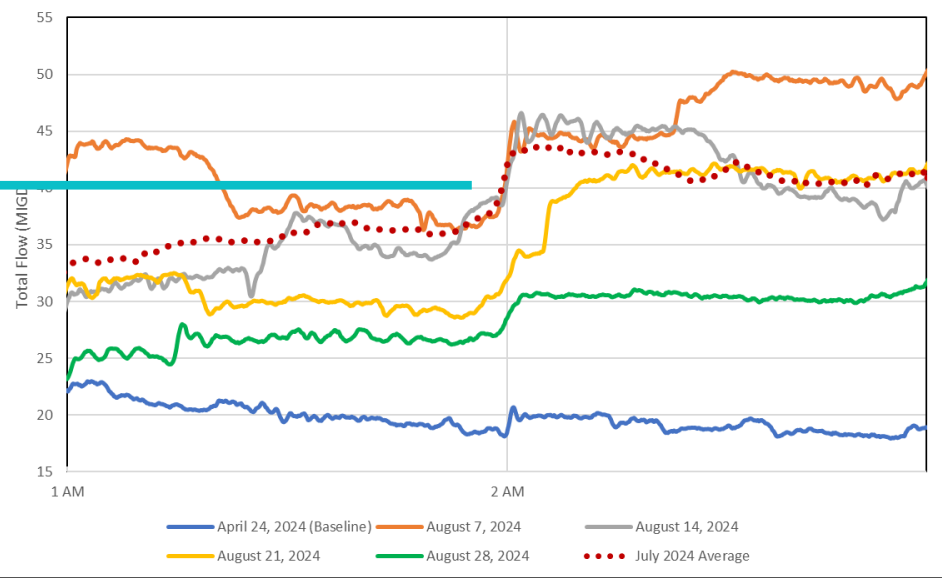


Peak Demands – 2 AM

August 2024
Total Flow Tuesday Night/Wednesday Mornings - 11 pm to 3 am



August 2024
Total Flow Tuesday Night/Wednesday Mornings - 1 am to 3 am



Peak Demands – Next Steps

- Continue Landscape/Irrigation industry outreach
- Irrigation winterization campaign



Future Tasks for Demand Management

- Filling the data gaps with research and studies
 - influence of tourism on summer demands, specific residential water use patterns, influence of an aging population, details on agricultural water use (crops, irrigation patterns, seasons etc.)
- Develop a Water Conservation Plan
- Performance measuring water conservation efforts
- Refining demand targets
- Researching and monitoring new water conservation technologies and industry trends

Future Tasks for Outreach and Education

Residential

- Maintain ongoing engagement with industry experts and residents
- Enhance learning opportunities and develop outreach materials
- Promote relevant tools and solutions

Industrial/Commercial/Institutional

- Water use assessments
- Continue once-through cooling rebates & regulation preparation
- Developing strategies for MURBs and agriculture

Questions &
Feedback



Proposed Recommendation from the Water Advisory Committee to the Water Commission on Agricultural Water Rates

This proposal is for discussion at the next WAC full meeting in May, 2024. When agreement is reached by the WAC, the proposal is to be forwarded to the Regional Water Commission for adoption and action.

Rationale

The WAC considers food security to be a priority in view of the increasing challenges of climate change. Vancouver Island is especially vulnerable to food security risks because it is an island, it has relatively small pockets of good agricultural soil, much of the native soil has poor water holding capacity, and there are episodic summer droughts which are becoming more severe.

The low agricultural water rate set by the CRD is just one mechanism to support, enhance, maintain and create agricultural enterprises on the island. The cost to the CRD is relatively low in terms of the potential social, environmental and financial return on the investment.

In consideration of the urgency of action to adapt to climate change, any increase in the agriculture water rate would be counter to the goal of improving food security. Since the total amount of the subsidy is relatively small in terms of the CRD budget, any minor increases in the rate would be insignificant and would not further the goals of the CRD for food security. Moreover, the associated, and the administrative costs would likely outweigh any real benefits to the CRD. It could also be argued that the ag water rate should be reduced to further encourage farming on the island.

This proposal aligns with the CRD's 2016 Food and Agriculture Strategy.

Food security should not be leveraged only on the efforts of Integrated Water Services (IWS), but should be a joint responsibility of the CRD as a whole as well as the individual municipalities and electoral districts and other regional partners including the provincial government. A more integrated and broad agreement on water for farming and food security needs to be reached with CRD partners.

Recommendations

The Water Advisory Committee makes the following recommendations for updates to the agricultural water rate.

- Make no change to the agricultural water rate. This issue has been discussed many times over many years. The rationale for this recommended is elaborated in the bullets following. The Regional Water Commission should make a firm decision in alignment with the WAC recommendations and CRD policies and strategies and make a commitment to developing agriculture in the CRD to enhance long term food security.
- The cost of the subsidy paid directly to municipalities and electoral districts should show as a budget item in the larger CRD budget rather than coming directly out of the IWS budget. This would position this agricultural subsidy as a regional food security commitment.
- The 2025 Strategic Plan should be more explicit on agriculture and food security, water needs and resilience, and refer to the 2016 CRD Food and Agriculture Strategy.
- The CRD should focus on ensuring an adequate water supply for food security in the region. This could include developing incentives for water catchment, conservation, and re-use, as well as maintaining and enhancing the water holding capacity of the agricultural soils and landscape by specifically developing and using local island food waste compost and mulch materials locally, re-foresting, re-wilding, and creating or restoring lowland water basins like marshes.
- Much of the discussion around the ag water rate has been focussed on non-farm properties that benefit from the low water rate, and active farms that do not benefit from the ag rate because they don't have access to the distribution system, are considered commercial, or are in urban areas. This is a result of the CRD's reliance on the BC provincial government BC Assessment services and its characterization of which properties are 'agricultural.'
 - It is highly recommended that the CRD develop a different, more accurate reference or mechanism to determine which properties can benefit from the ag water rate.
 - The CRD should consider a permitting process where farmers must apply for the ag water rate by providing information about their land and operations. The subsidy should be limited to properties that are producing

food or animal feed, animals for food, or other horticultural crops that contribute to food security, social well being and positive health outcomes.

- Farmers who are not yet on the water distribution system could also apply for the ag water rate and thereby be registered as bona fide farms within the CRD. This could make them eligible for other supports from the CRD or their local municipality, such as subsidies for installing the water pipes, water meters and back flow preventers to their properties.
 - When the CRD issues a permit, the conditions in the permit must be met by the farmer. Failing to meet the conditions, such as using the ag water to fill a swimming pool, could result in cancellation of the permit.
 - This would allow the CRD much more flexibility in who gets the low water rates, to collect and use information about the agricultural community in the CRD, and to limit abuses.
- Currently, the CRD pays \$2 million to municipalities to replace the revenue they did not earn from applying the full water rate to farms. For the municipalities this is a low cost way for them to benefit from enhancing agriculture in their jurisdiction. It is highly recommended that the CRD motivate municipalities and electoral districts to share the responsibility for improving food security and encouraging agriculture in their jurisdictions by putting conditions on receiving the ag water rate benefit.
- The municipalities and electoral districts should update their internal budgeting/accounting procedures so that the financial benefit they receive as a result of the lower ag rates is clearly identified as an agricultural subsidy and that this financial benefit is applied to further supports for the agricultural community. This might be a politically positive way to leverage this financial benefit back into local agriculture.
 - If the municipalities commit to further supporting their local agricultural enterprises, they could allocate the \$2M in revenue from the CRD toward additional supports to their local agriculture industry. This could be in the form of subsidies to farms for installing new water delivery systems where the farms where access the water delivery system is currently constrained. It could also include incentives for building water catchment systems, water conservation systems, water re-cycling such as re-using non-potable water for agricultural purposes.
 - The municipalities may already have programs to support agriculture and the revenue from the CRD subsidy may already be used, indirectly, for

these purposes. The municipalities support for agriculture should not be limited to only the subsidy provided by the CRD. For political optics, it would be best if the agriculture supports were the same or more than the CRD subsidy.

- Asking the municipalities to use the \$2M on agriculture would make it easy for them to justify this investment in their local agricultural enterprises and food security. The farmers get a low water rate, and the CRD and the municipalities can leverage the \$2M earmarked for agriculture in a more focussed way.



Capital Regional District

HOTSHEET AND ACTION LIST

Regional Water Supply Commission

Wednesday, July 17, 2024

11:00 AM

Board Room, 6th Floor
625 Fisgard Street
Victoria, BC

The following is a quick snapshot of the FINAL Regional Water Supply Commission decisions made at the meeting. The minutes will represent the official record of the meeting. A name has been identified beside each item for further action and follow-up.

3. ADOPTION OF MINUTES

The minutes of the June 19, 2024 meeting were adopted as circulated.

7. COMMISSION BUSINESS

7.1. Draft Regional Water Supply 2025 Strategic Plan – Presentation & Workshop

Recommendation:

- 1 That the draft 2025 Strategic Plan for the Greater Victoria Water Supply System be endorsed as presented; and
- 2 That staff be directed to proceed with the engagement plan.

Recommendation not Considered at this Meeting

That staff take the actions and feedback received from the Commission and incorporate into the draft strategic plan for consideration at a future meeting.

CARRIED

The following items were received for information:

- 7.2 Water Supply Service 2024 Mid-Year Capital Projects and Operations Update
- 7.3 Water Quality Summary Report for Greater Victoria Drinking Water Supply – January to April 2024
- 7.4 Recommendations from Other Water Commissions
- 7.5 Water Watch Report
- 10.1 Correspondence [Received]: From Mr. Jack Hull: Regional Water Supply Master Plan



Capital Regional District

HOTSHEET AND ACTION LIST

Regional Water Supply Commission

Wednesday, June 19, 2024

11:30 AM

Board Room, 6th Floor
625 Fisgard Street
Victoria, BC

The following is a quick snapshot of the FINAL Regional Water Supply Commission decisions made at the meeting. The minutes will represent the official record of the meeting. A name has been identified beside each item for further action and follow-up.

3. ADOPTION OF MINUTES

The minutes of the February 15, 2021 meeting were adopted as circulated

7. WATER ADVISORY COMMITTEE

7.1. Minutes of the May 28, 2024 Water Advisory Committee Meeting

Recommendation from the Water Advisory Committee:

That the Agricultural Water Rate Study be paused until further review by the Water Advisory Committee.

CARRIED

8. COMMISSION BUSINESS

8.1. Recommendation to Award Contract No. 2024-948, Goldstream Water Treatment Plant and Controls Upgrade Project

Recommendation:

1. That Contract 2024-948 – Goldstream Water Treatment Plant Ultraviolet and Controls Upgrades, be awarded to Industra Construction Corp. for an amount of \$6,985,946.58 (excluding GST); and
2. That staff be authorized to award up to an additional \$600,000 if required during the execution of the project.

CARRIED

8.2. Regional Water Supply Service 2024 Capital Plan Amendment

Recommendation: The Regional Water Supply Commission recommends that the Capital Regional District Board:

Approve amendment of the 2024 Regional Water Supply Service Capital Plan to move \$180,000 from line item 09-01 Leech River Watershed Restoration; to line item 17-27 Watershed Bridge and Culvert Replacement, to facilitate high priority replacement of a deteriorated major drainage structure.

CARRIED

The following items were received for information:

8.3. Summary of Water Recommendations from Other Water Commissions

8.4. Water Watch Report

11. MOTION TO CLOSE THE MEETING

3.1. Motion to Close the Meeting

That the meeting be closed in accordance with the Community Charter, Part 4, Division 3:

1. Land Acquisition/Disposition under Section 90 (1)(e) [1 Item]
2. Intergovernmental Relations under Section 90 (2)(b) [1 Item]
3. Prohibited from disclosure under FOIPPA under Section 90 (1)(j) [1 Item]

CARRIED

12. RISE AND REPORT

The Commission rose from its closed session without report.

CAPITAL REGIONAL DISTRICT - INTEGRATED WATER SERVICES

Water Watch

Issued September 16, 2024

Water Supply System Summary:

1. Useable Volume in Storage:

Reservoir	September 30 5 Year Ave		September 30/23		September 15/24		% Existing Full Storage
	ML	MIG	ML	MIG	ML	MIG	
Sooke	64,109	14,104	61,346	13,496	64,421	14,173	69.5%
Goldstream	6,644	1,462	7,459	1,641	8,176	1,799	82.5%
Total	70,753	15,566	68,805	15,137	72,598	15,971	70.7%

2. Average Daily Demand:

For the month of September	171.1 MLD	37.65 MIGD
For week ending September 15, 2024	158.5 MLD	34.87 MIGD
Max. day September 2024, to date:	195.0 MLD	42.91 MIGD

3. Average 5 Year Daily Demand for September

Average (2019 - 2023)	157.4 MLD ¹	34.63 MIGD ²
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¹MLD = Million Litres Per Day ²MIGD = Million Imperial Gallons Per Day

4. Rainfall September:

Average (1914 - 2023):	65.5 mm
Actual Rainfall to Date	16.9 mm (26% of monthly average)

5. Rainfall: Sep 1- Sep 15

Average (1914 - 2023):	24.9 mm
2023/2024	16.9 mm (68% of average)

6. Water Conservation Action Required:

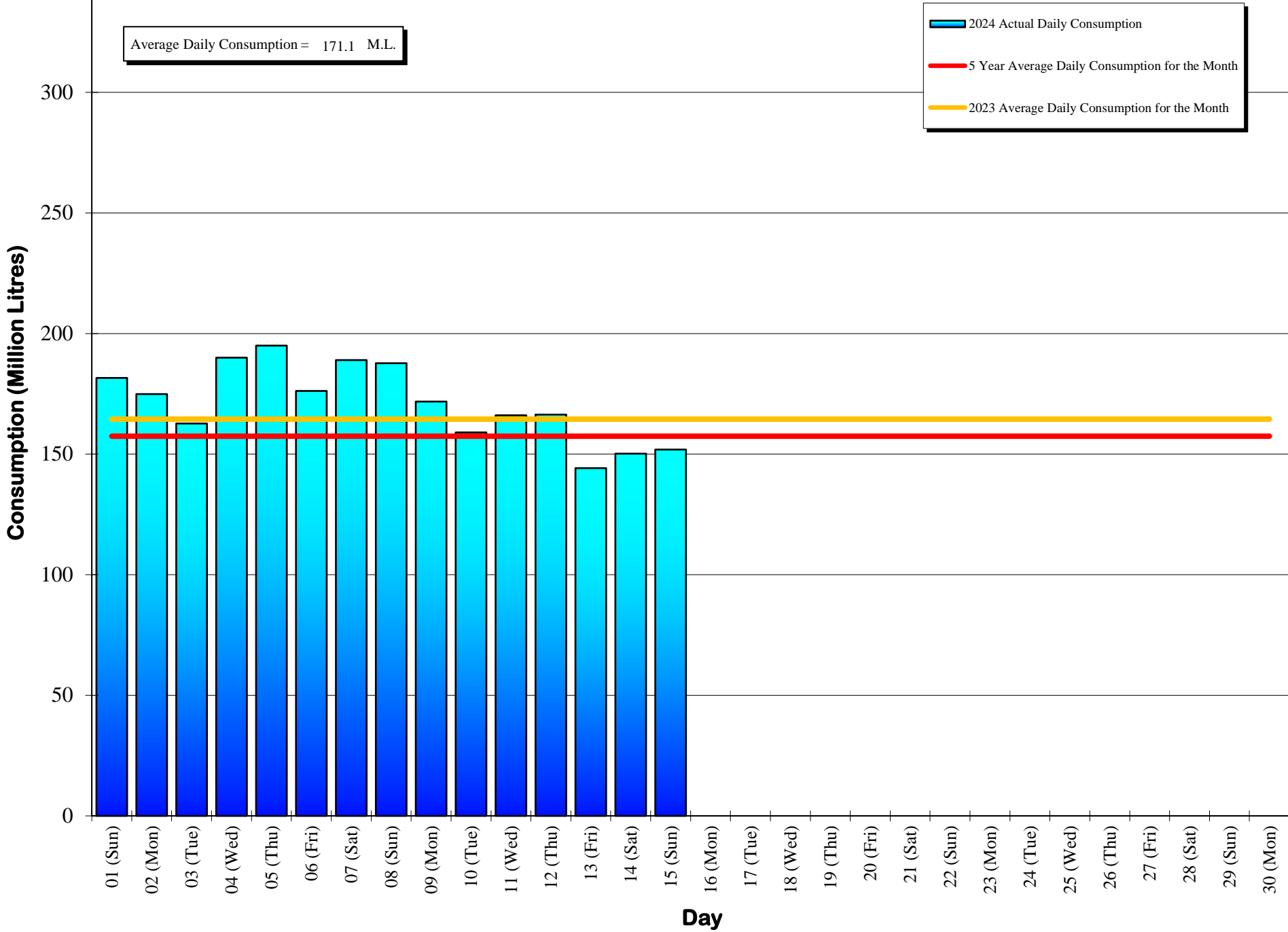
CRD's Stage 1 Water Conservation Bylaw is now in effect through September 30, 2024
Visit our website at www.crd.bc.ca/water for more information.

If you require further information, please contact:

Alicia Fraser, P. Eng.
General Manager, CRD - Integrated Water Services
or
Glenn Harris, Ph D., RPBio
Senior Manager - Environmental Protection

Capital Regional District Integrated Water Services
479 Island Highway
Victoria, BC V9B 1H7
(250) 474-9600

Daily Consumption September 2024



Daily Consumptions: - September 2024

Date	Total Consumption		Air Temperature @ Japan Gulch		Weather Conditions	Precipitation @ Sooke Res.: 12:00am to 12:00am			
	(ML) ¹	(MIG) ²	High (°C)	Low (°C)		Rainfall (mm)	Snowfall ³ (mm)	Total Precip.	
01 (Sun)	181.6		39.9	28	15	Cloudy / P. Sunny	0.0	0.0	0.0
02 (Mon)	174.9		38.5	24	13	Sunny / P. Cloudy	0.0	0.0	0.0
03 (Tue)	162.7		35.8	21	12	Cloudy / P. Sunny	0.0	0.0	0.0
04 (Wed)	190.0		41.8	25	12	Sunny / P. Cloudy	0.0	0.0	0.0
05 (Thu)	195.0	<=Max	42.9	30	14	Sunny	0.0	0.0	0.0
06 (Fri)	176.2		38.8	30	16	Sunny	0.0	0.0	0.0
07 (Sat)	189.0		41.6	27	16	Cloudy	0.0	0.0	0.0
08 (Sun)	187.7		41.3	23	15	Cloudy / P. Sunny	0.0	0.0	0.0
09 (Mon)	171.8		37.8	21	13	Sunny / P. Cloudy	0.0	0.0	0.0
10 (Tue)	159.0		35.0	21	11	Sunny / P. Cloudy / Showers	1.8	0.0	1.8
11 (Wed)	166.1		36.5	16	11	Cloudy / Showers	1.3	0.0	1.3
12 (Thu)	166.4		36.6	20	10	Sunny / P. Cloudy	0.0	0.0	0.0
13 (Fri)	144.2	<=Min	31.7	19	10	Cloudy / Showers	13.5	0.0	13.5
14 (Sat)	150.2		33.0	18	10	Sunny / P. Cloudy / Showers	0.3	0.0	0.3
15 (Sun)	151.9		33.4	18	9	Sunny / P. Cloudy	0.0	0.0	0.0
16 (Mon)									
17 (Tue)									
18 (Wed)									
19 (Thu)									
20 (Fri)									
21 (Sat)									
22 (Sun)									
23 (Mon)									
24 (Tue)									
25 (Wed)									
26 (Thu)									
27 (Fri)									
28 (Sat)									
29 (Sun)									
30 (Mon)									
TOTAL	2566.7 ML	564.69 MIG					16.9	0	16.9
MAX	195.0	42.91	30	16			13.5	0	13.5
AVG	171.1	37.65	22.7	12.5			1.1	0	1.1
MIN	144.2	31.73	16	9			0.0	0	0.0

1. ML = Million Litres

2. MIG = Million Imperial Gallons

3. 10% of snow depth applied to rainfall figures for snow to water equivalent.

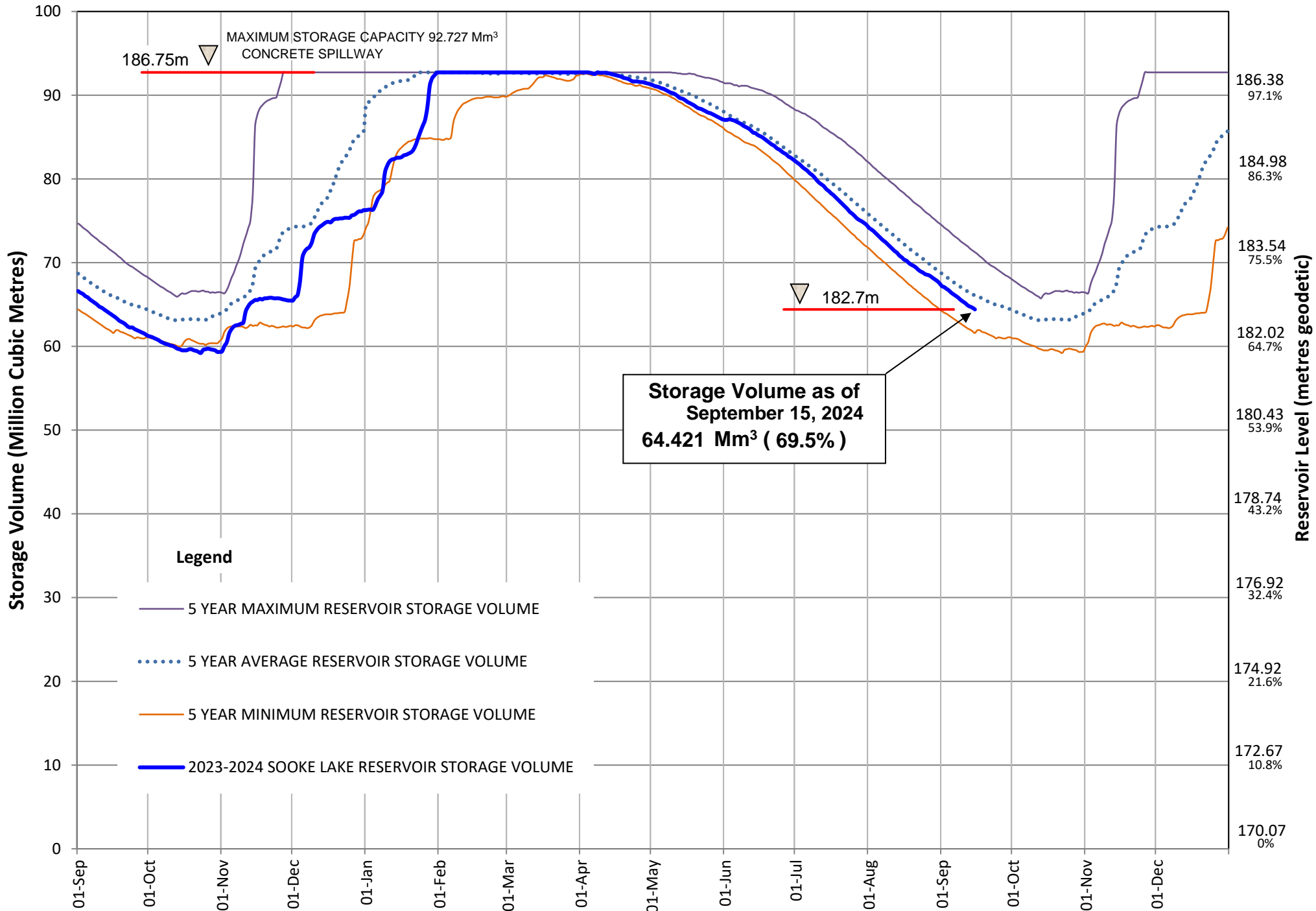
Average Rainfall for September (1914-2023)	65.5 mm
Actual Rainfall: September	16.9 mm
% of Average	26%
Average Rainfall (1914-2023): Sept 01 - Sep 15	24.9 mm
Actual Rainfall (2023/24): Sept 01 - Sep 15	16.9 mm
% of Average	68%

Number days with precip. 0.2 or more
4

Water spilled at Sooke Reservoir to date (since Sept. 1) = 0.00 Billion Imperial Gallons
 = 0.00 Billion Litres

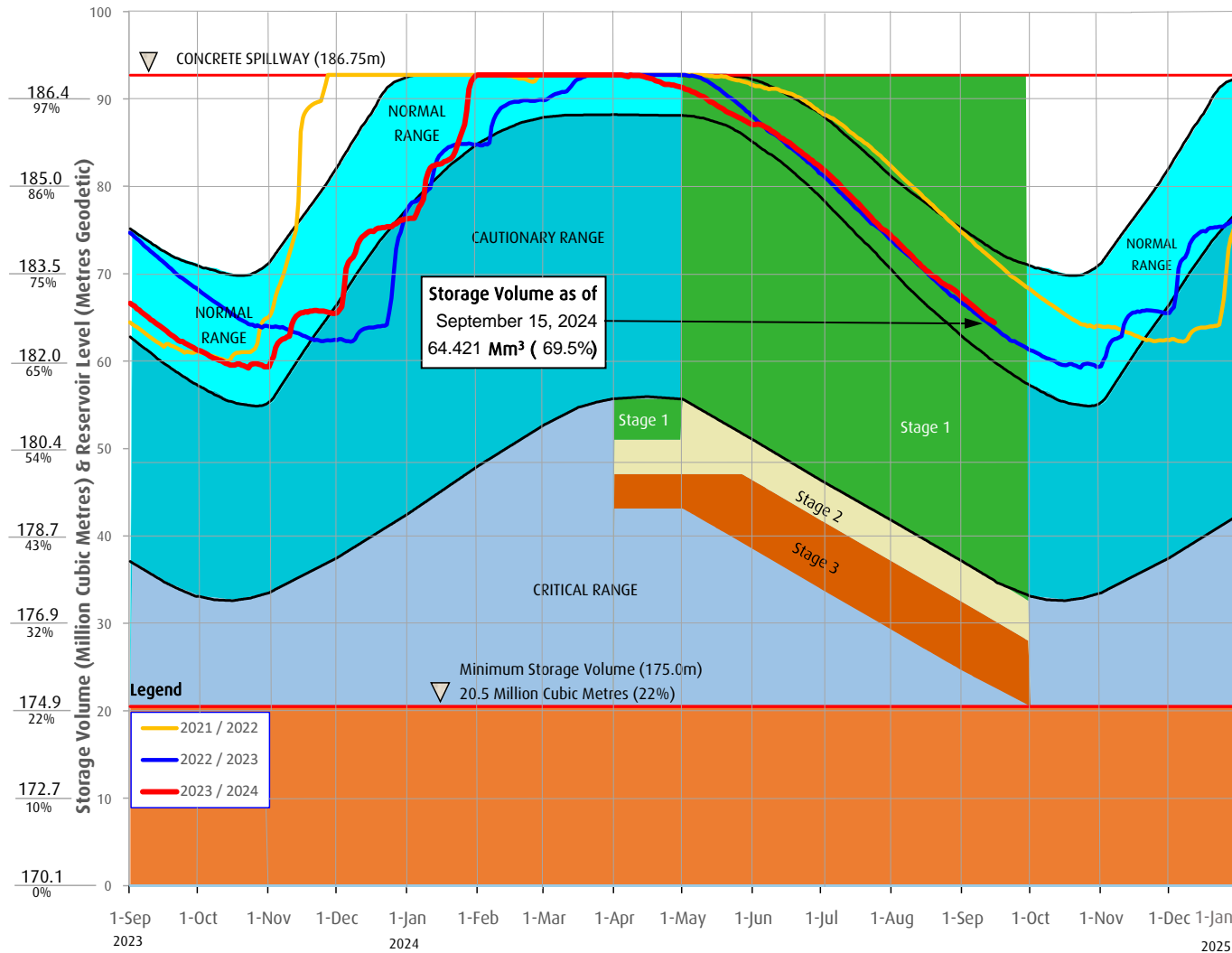
SOOKE LAKE RESERVOIR STORAGE SUMMARY

2023 / 2024



Sooke Lake Reservoir Storage Level

Water Supply Management Plan



FAQs

How are water restriction stages determined?

Several factors are considered when determining water use restriction stages, including,

1. Time of year and typical seasonal water demand trends;
2. Precipitation and temperature conditions and forecasts;
3. Storage levels and storage volumes of water reservoirs (Sooke Lake Reservoir and the Goldstream Reservoirs) and draw down rates;
4. Stream flows and inflows into Sooke Lake Reservoir;
5. Water usage, recent consumption and trends; and customer compliance with restriction;
6. Water supply system performance.

The Regional Water Supply Commission will consider the above factors in making a determination to implement stage 2 or 3 restrictions, under the Water Conservation Bylaw.

At any time of the year and regardless of the water use restriction storage, customers are encouraged to limit discretionary water use in order to maximize the amount of water in the Regional Water Supply System Reservoirs available for nondiscretionary potable water use.

Stage 1 is normally initiated every year from May 1 to September 30 to manage outdoor use during the summer months. During this time, lawn watering is permitted twice a week at different times for even and odd numbered addresses.

Stage 2 is initiated when it is determined that there is an acute water supply shortage. During this time, lawn water is permitted once a week at different times for even and odd numbered addresses.

Stage 3 is initiated when it is determined that there is a severe water supply shortage. During this time, lawn watering is not permitted. Other outdoor water use activities are restricted as well.

For more information, visit www.crd.bc.ca/drinkingwater

Useable Reservoir Volumes in Storage for September 15, 2024

