

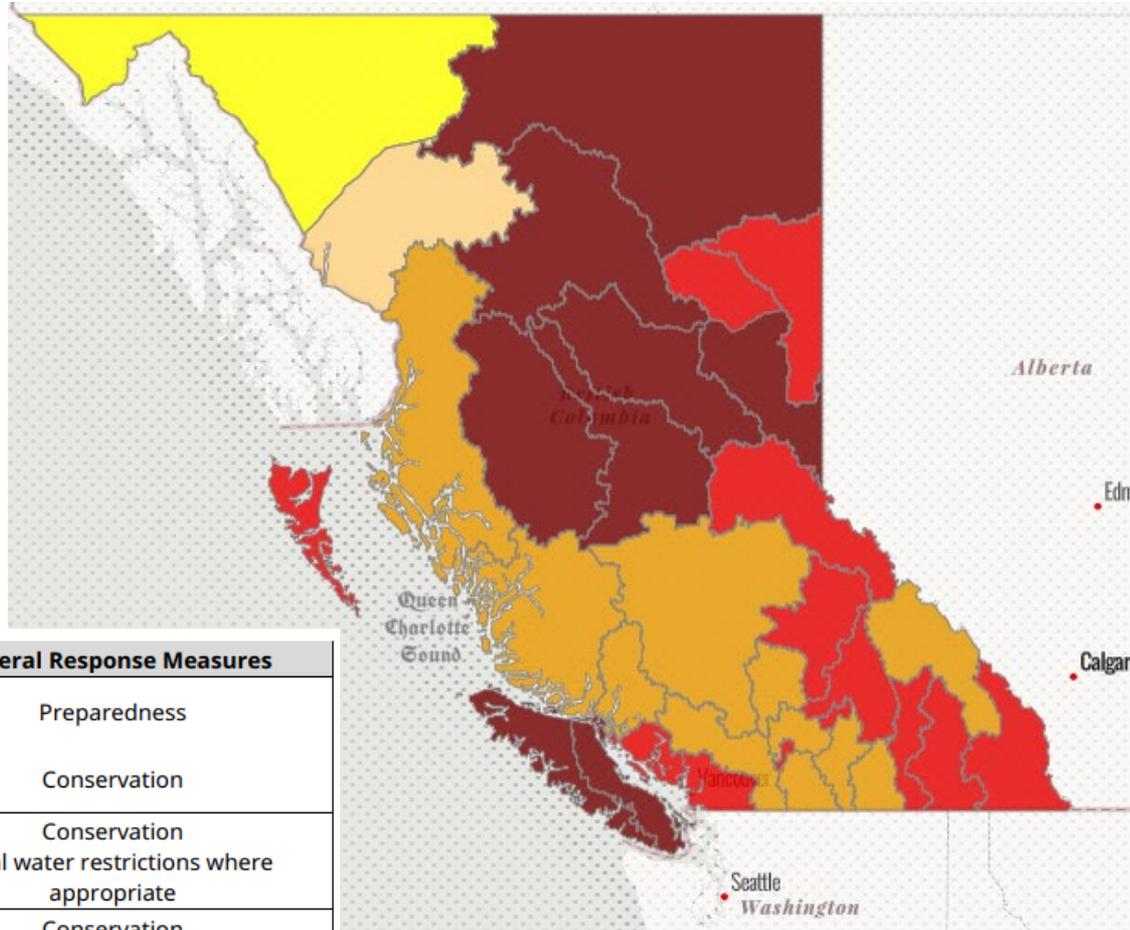
Water Supply Update

Committee of the Whole
July 27, 2023



BC Drought Conditions

- The Province uses a 6 level drought classification to describe the impacts of drought conditions, with 5 being the highest.
- Sunshine Coast region is currently at Level 4 – Extremely Dry, Adverse impacts are likely.



Level	Impacts	General Response Measures
0	There is sufficient water to meet socio-economic and ecosystem needs	Preparedness
1	Adverse impacts to socio-economic or ecosystem values are rare	Conservation
2	Adverse impacts to socio-economic or ecosystem values are unlikely	Conservation Local water restrictions where appropriate
3	Adverse impacts to socio-economic or ecosystem values are possible	Conservation Local water restrictions likely
4	Adverse impacts to socio-economic or ecosystem values are likely	Conservation and local water restrictions Regulatory action possible
5	Adverse impacts to socio-economic or ecosystem values are almost certain	Conservation and local water restrictions Regulatory action likely Possible emergency response



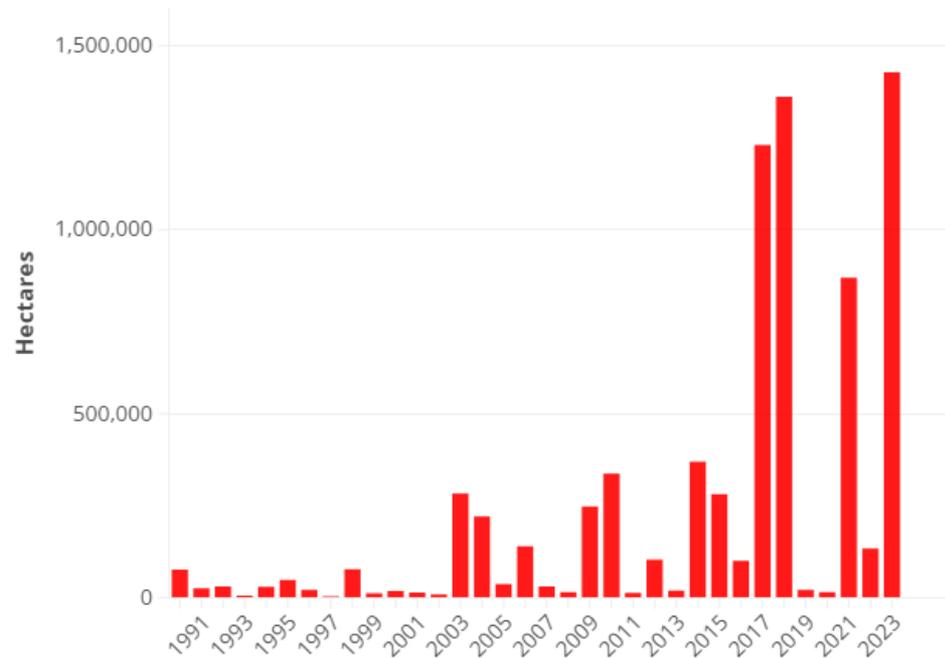
A Changing Climate...

British Columbia

Little reprieve for firefighters in B.C. as wildfire threat moves south



Area burned by wildfires in B.C.



Source: [National Forestry Database](#), [BC Wildfire Service](#) • Stefan Labbé/Glacier Media
*2023 valid to July 19

© OpenStreetMap contributor

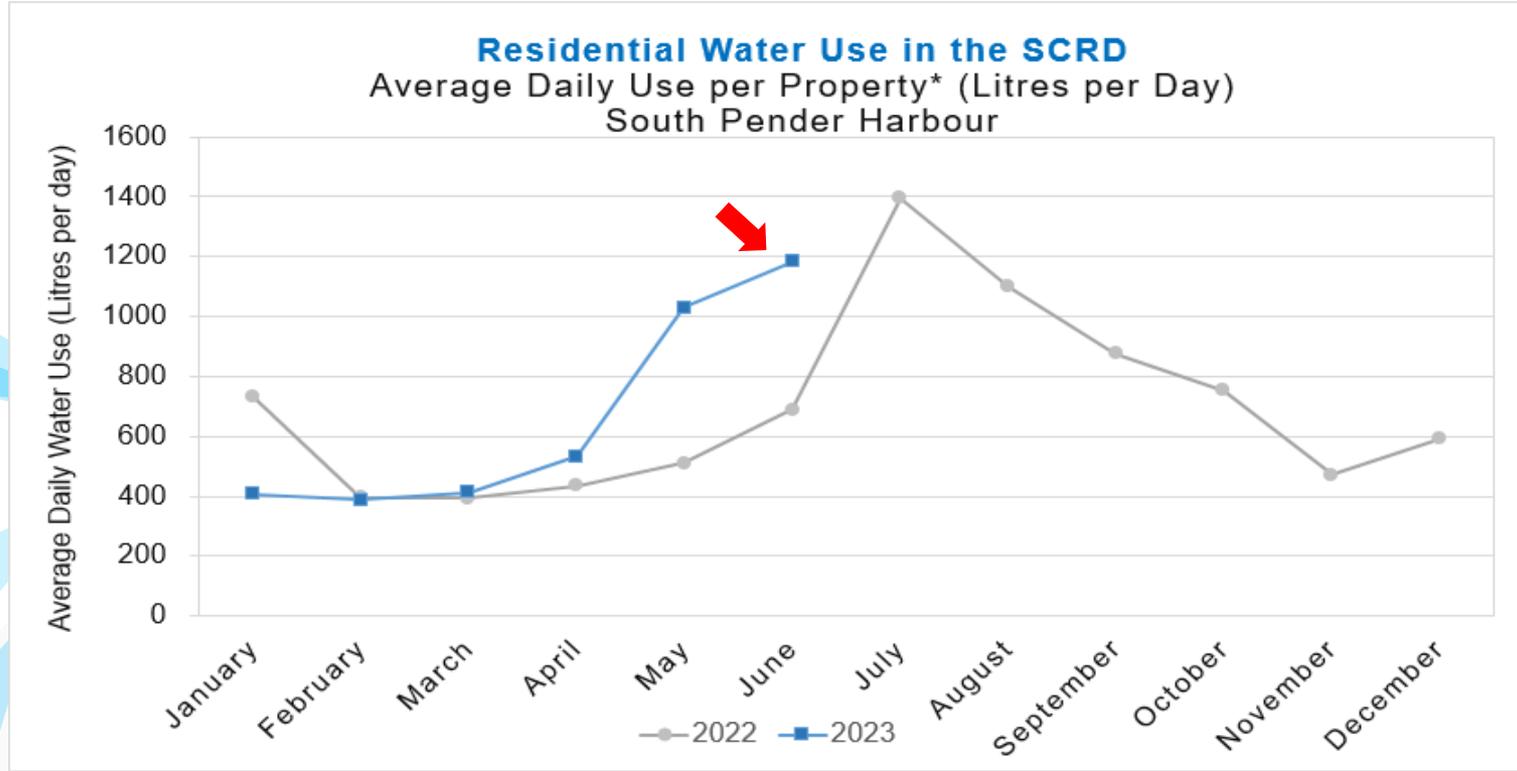
Eastbourne Water System

- **Stage 3 started July 21**
- Eastbourne Groundwater Development Project Well Testing Updates to be presented at a future meeting in the fall.



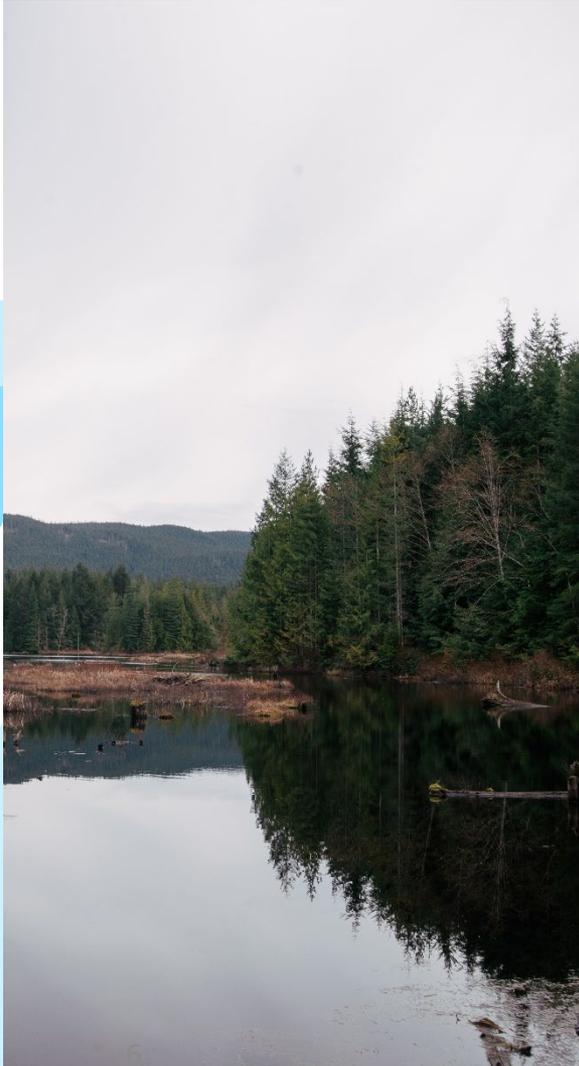
South Pender Water System

Stage 3 on July 14



2022 Average Daily -Min100 L per day, No leaks - South Pender Harbor System												
	January	February	March	April	May	June	July	August	Sept	Oct	Nov	Dec
2022	733	397	394	435	512	688	1,394	1,100	877	754	472	591
2023	406	387	414	532	1,030	1,183						

Why is South Pender in Stage 3?



Changing climate

- Higher temperatures earlier in the year
- Lack of rainfall

Impacts of the 2022 drought

- Watershed drier

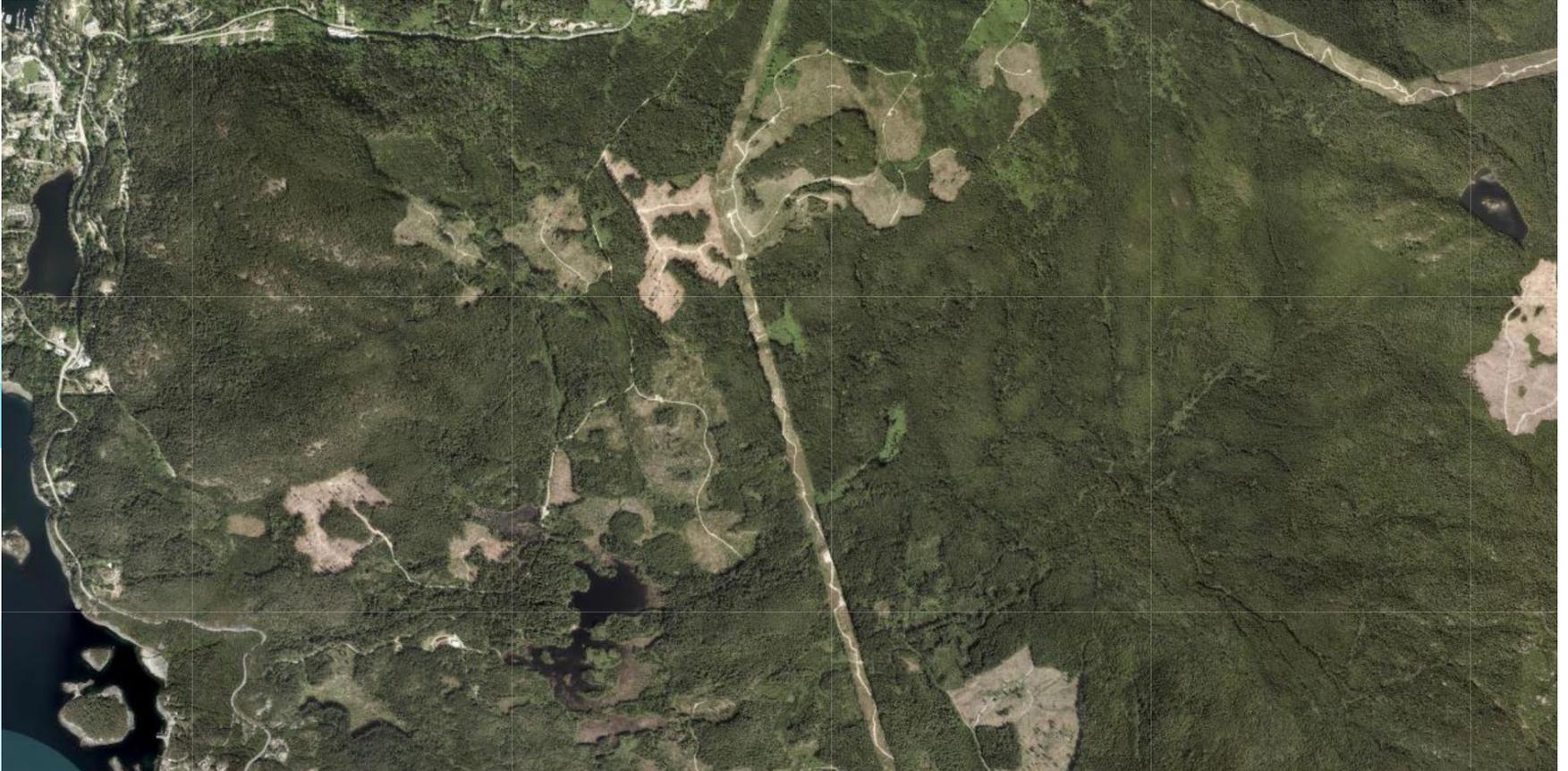
Limited supply

- Relies on McNeill and Harris Lakes

Stage 3 info at [scrd.ca/water-regulations](https://www.scrd.ca/water-regulations)



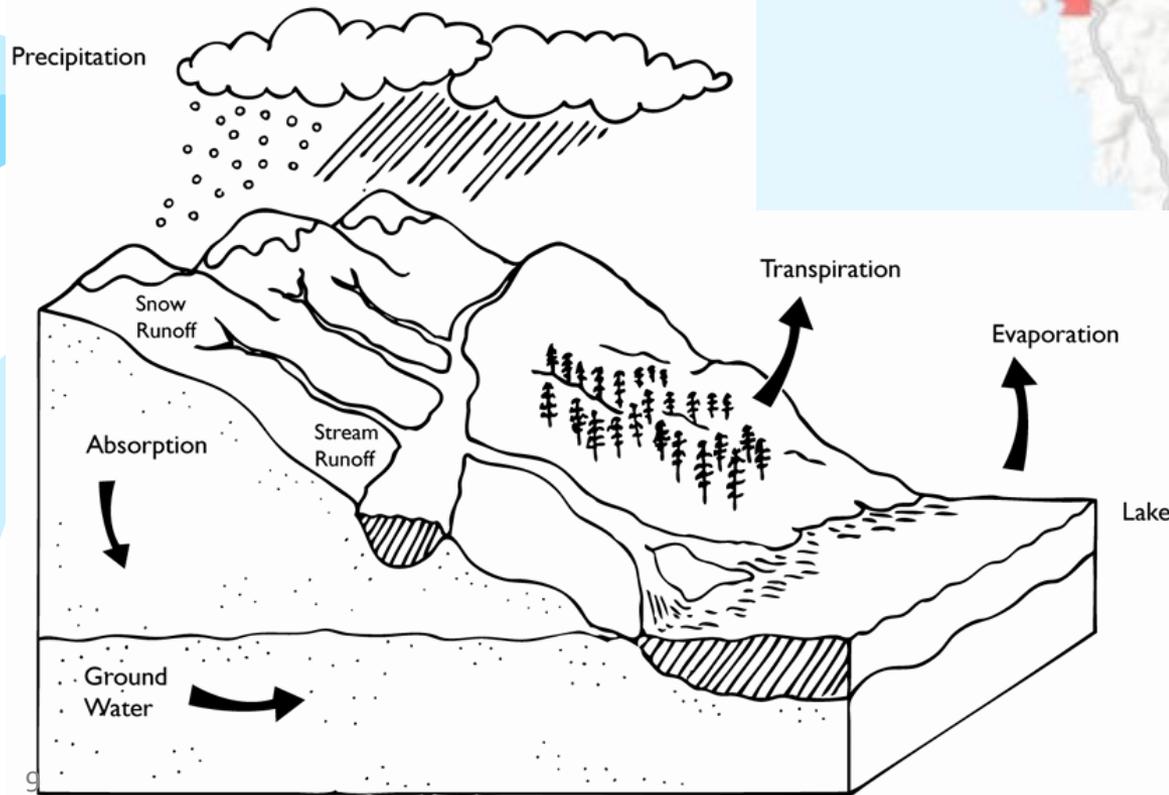
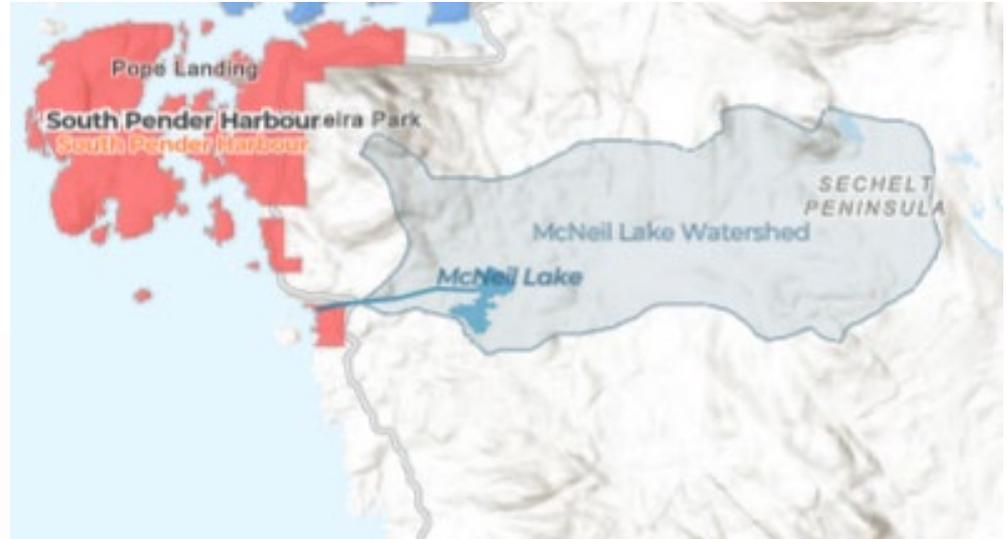
South Pender Lakes



South Pender Water System

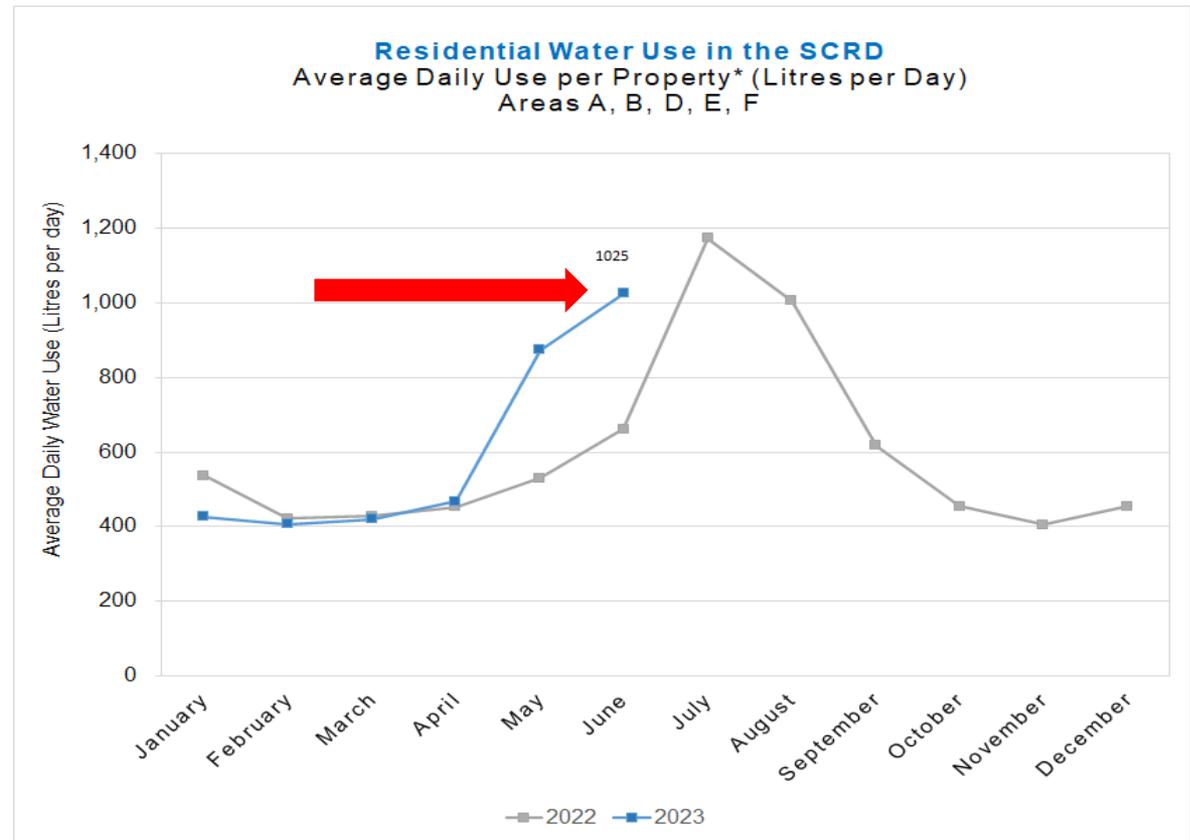
- Water licence on McNeill Lake has a per-day limit, as well as a total yearly withdrawal limit.
- Water from Harris Lake stops flowing into McNeill Lake during the summer. SCRDR staff are cleaning Harris Lake outlet channel to allow some more water to flow out.
- SCRDR staff have started preparations to increase the licence per-day limit from the lakes.
- Staff are considering the long-term impacts this increased lake draw-down could have if the watershed does not recharge fully this Fall/Winter.

McNeill Lake Recharge



Chapman Water System

- Currently at **Stage 2** as of July 7
- Water use is **1.5x** higher than June 2022



We encourage everyone to sign up for their monthly water use update! scrd.ca/water-use



Chapman Water System

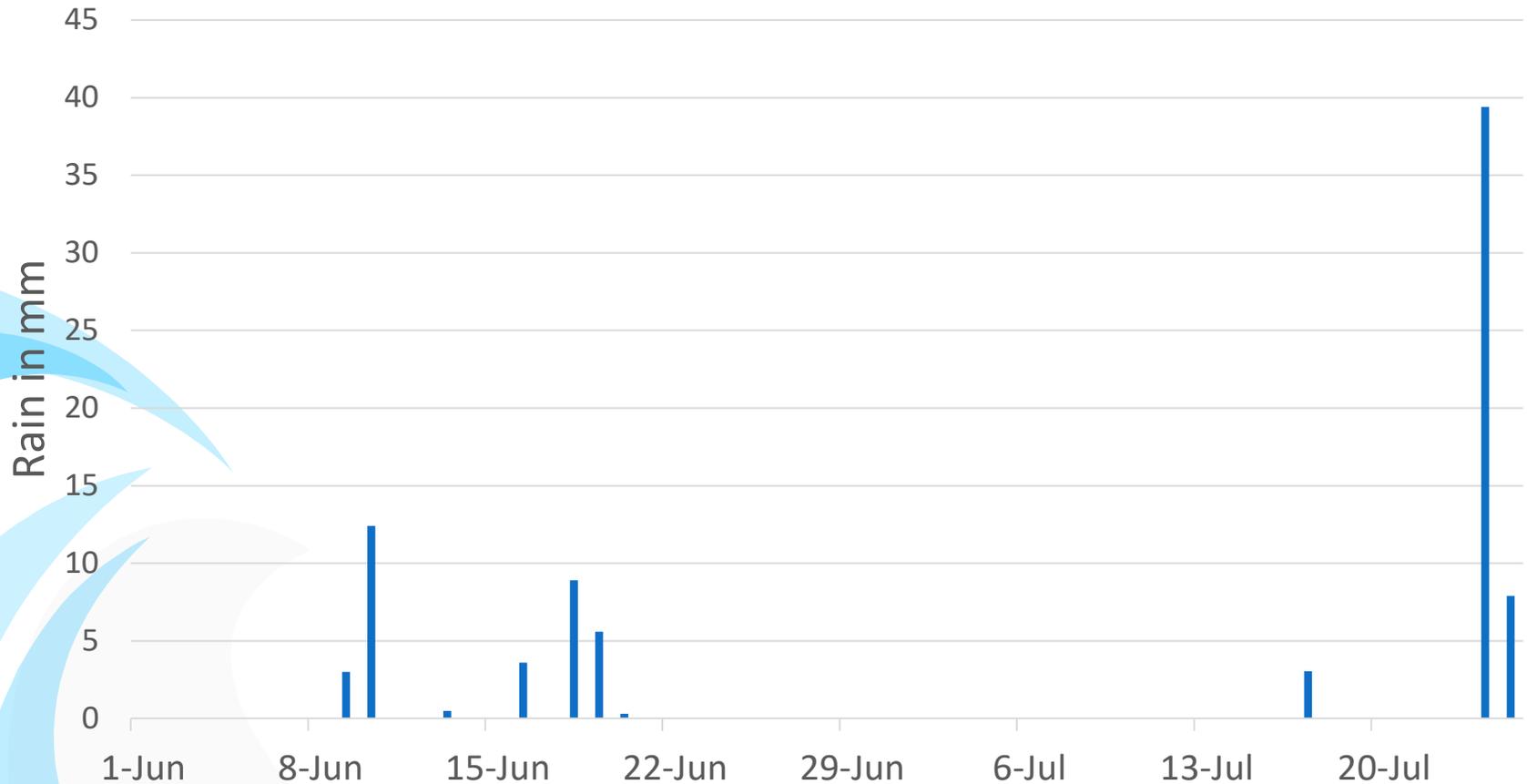
SCRD Staff performed calibration of the rain gauge and flow meter at Chapman Lake.

Edwards Lake station was put online and is now ready to supply water to Chapman Creek.

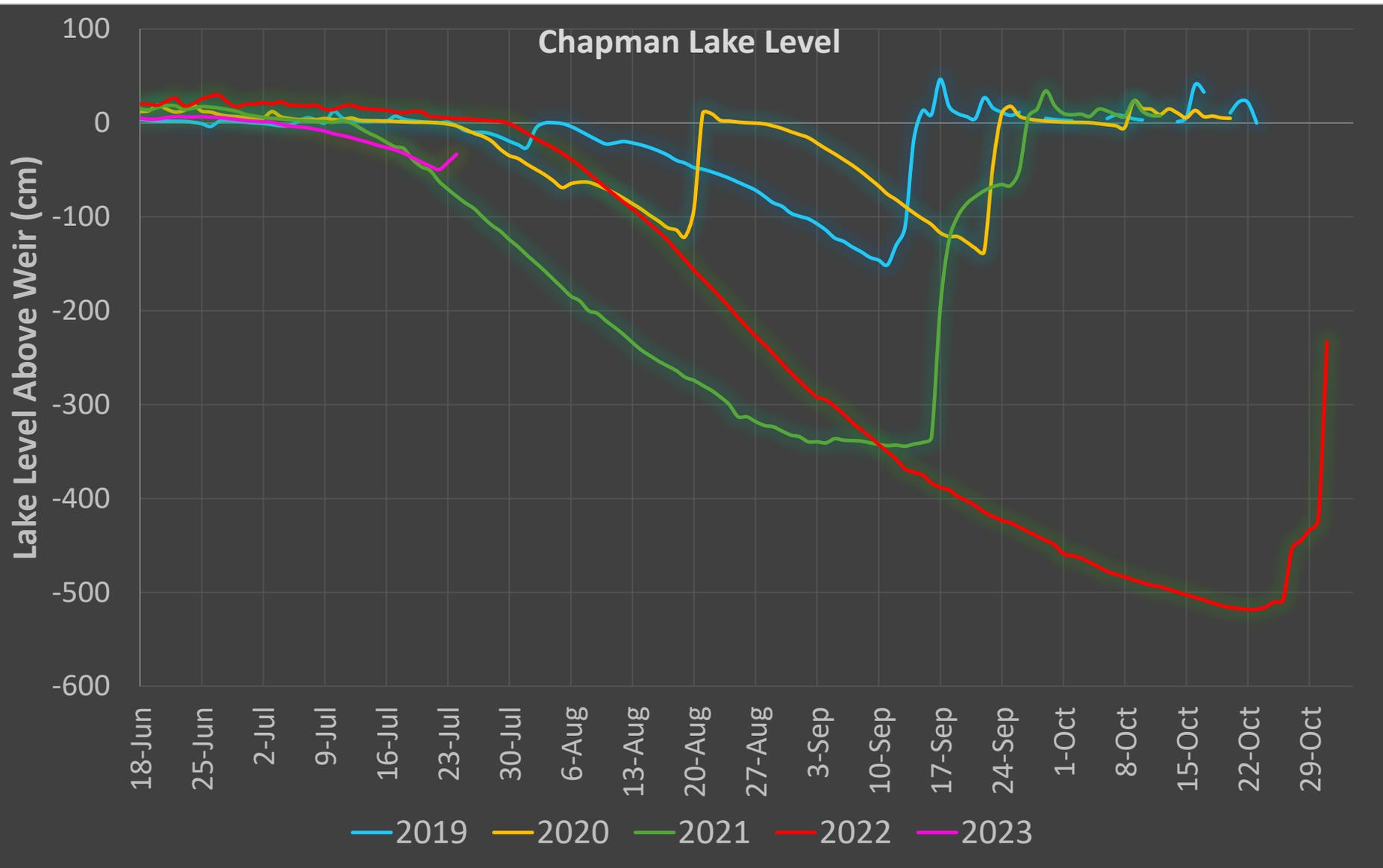


Chapman Lake, July 17, 2023

Chapman Watershed Precipitation



Historic Chapman Lake Levels



Chapman Water System

Chapman Lake stored water is being used and the storage level is decreasing by ~1% a day. This varies and depends on water usage and evaporation.

Visit www.scrd.ca/water-updates for Chapman Lake storage levels and more information.

Chapman Lake Water Storage Level

86%

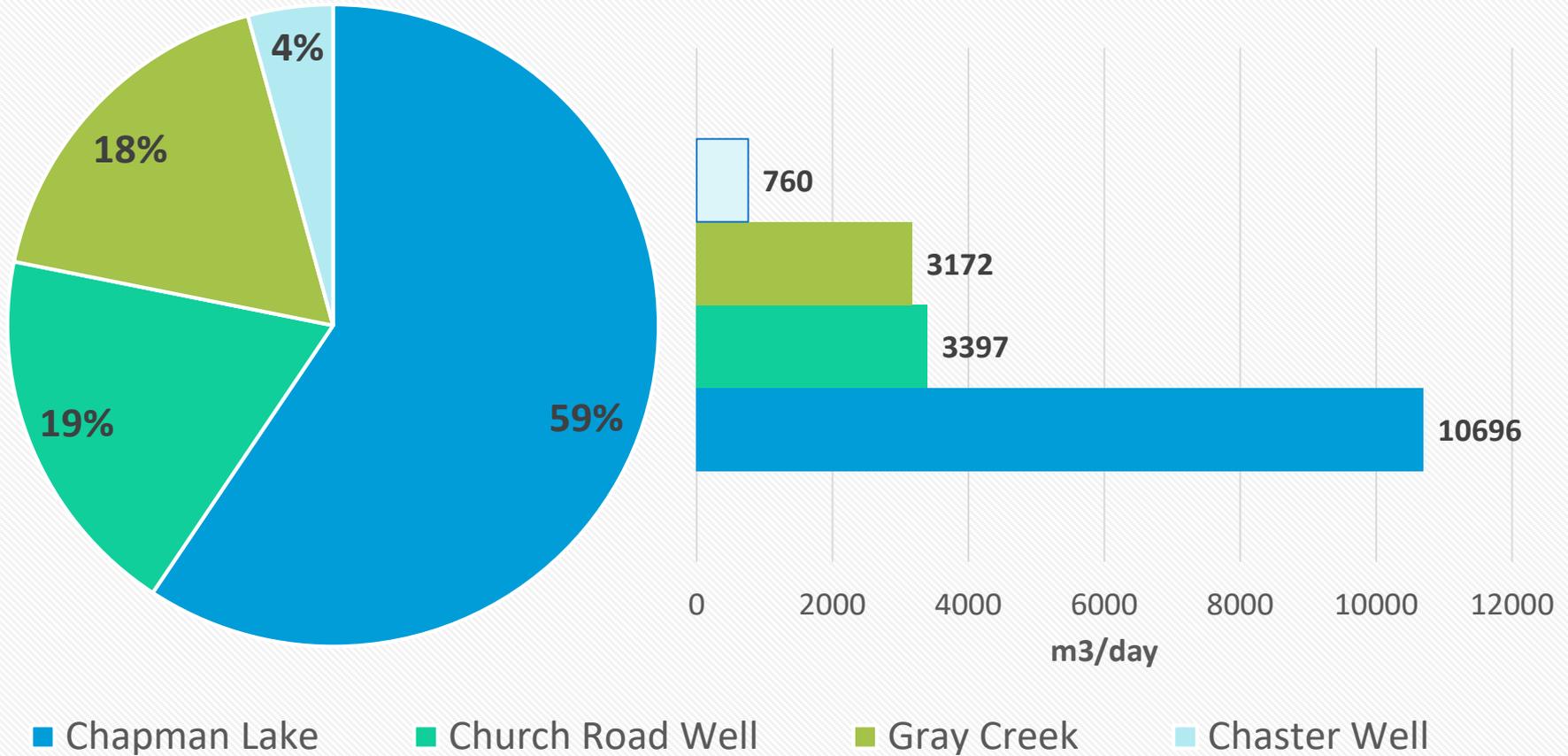
Last updated: July 25 2023

Previous Water Storage Levels (2023)

July 4	100%
July 6	98%
July 10	96%
July 13	94%
July 17	89%
July 20	84%
July 24	82%
July 25	86%

Chapman System Supply Sources

July 16-22, 18025 m³/day average



Leak Resolution

Staff collect monthly meter data and are scanning regularly for leaks.

Thank you to residents who resolved leaks in July, including several properties using between 25,000 and 70,000L per day.



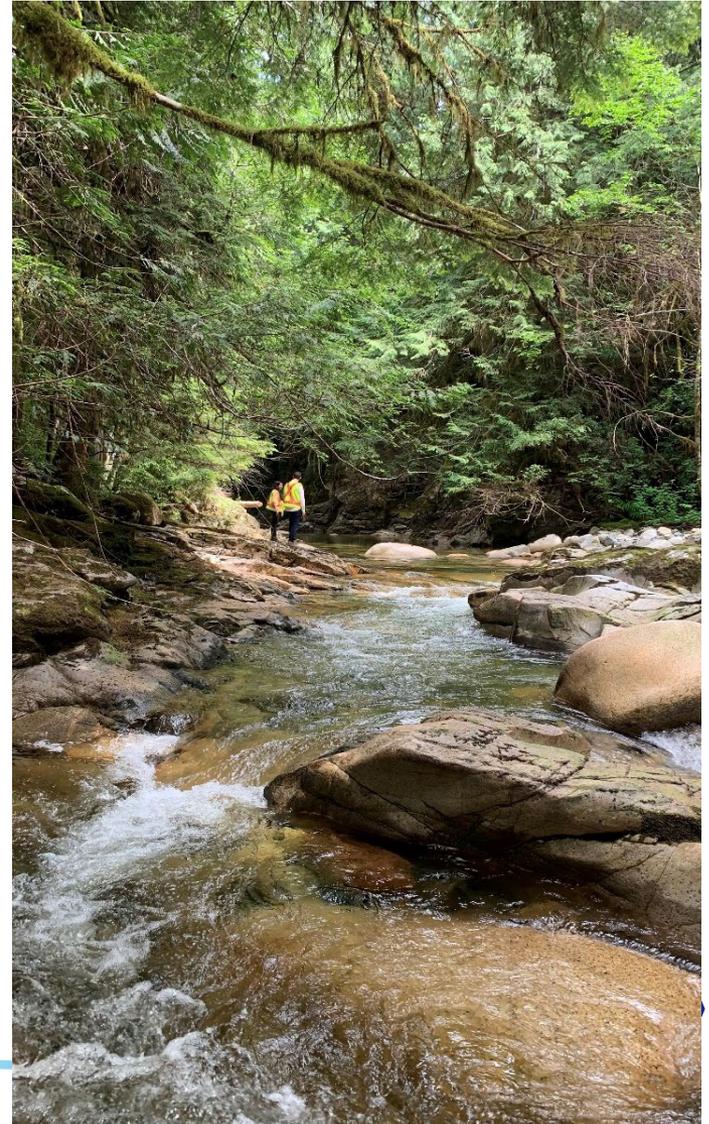
Rainwater harvesting cisterns should be refilled from the rain on July 24.

Now is the time to conserve water.



Environmental Flow Needs Update

A Monitoring Plan for EFN reduction in 2023 has been submitted to the Province who have indicated it is a priority



Langdale Well Field Update



- Two production wells have been drilled and preliminary results are favorable.
- The pump station could connect to the Chapman system via a 2.5 km stretch of pipe and a water treatment plant facility.
- Staff are working with the consultant on preliminary designs of a water treatment plant along with permitting.

Community Questions:

Q: Will the Chapman Water System go to Stage 3 or 4 water restrictions?

Our conservation efforts now can help reduce or delay the likelihood of us needing to go to Stage 3 or 4 on the Chapman Water System.

We cannot predict or control the weather. Remember, Stage 4 is considered an emergency.

Please visit: scrd.ca/water to learn more about how to conserve water.





Questions?

