

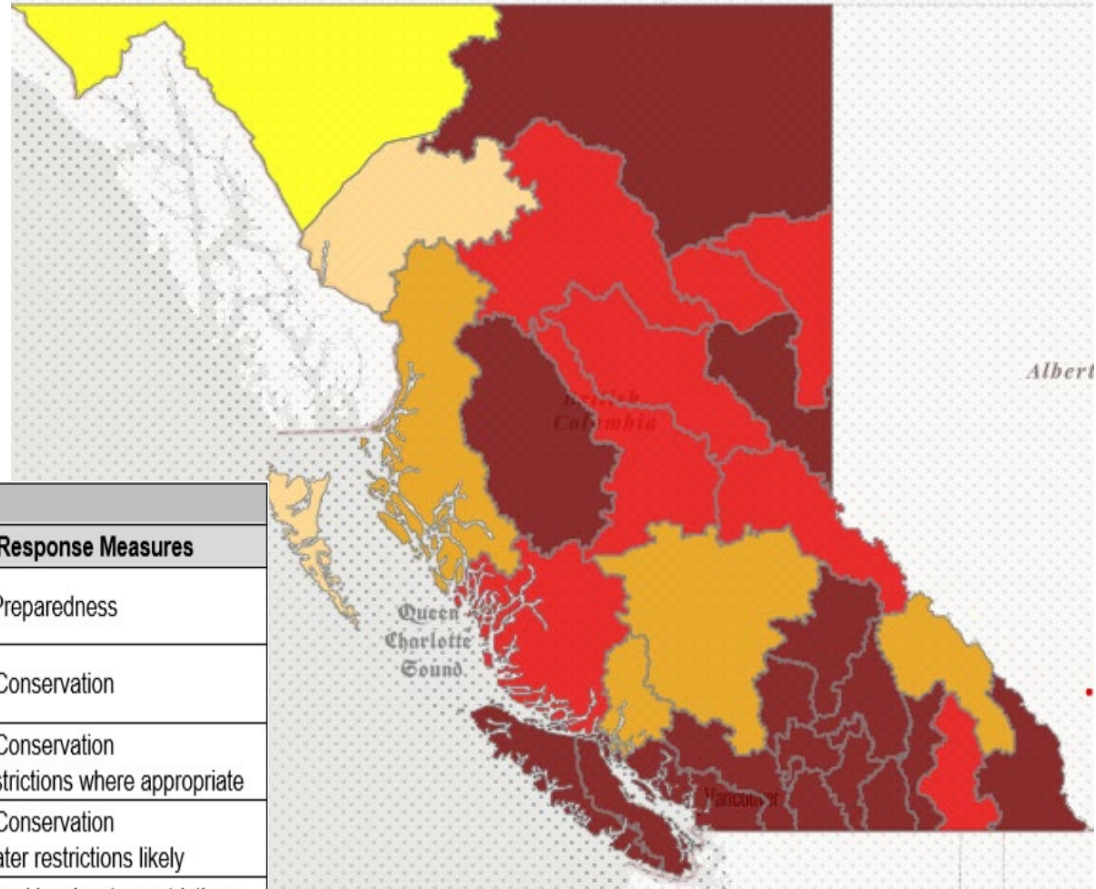
Water Supply Update

September 14, 2023



BC Drought Conditions

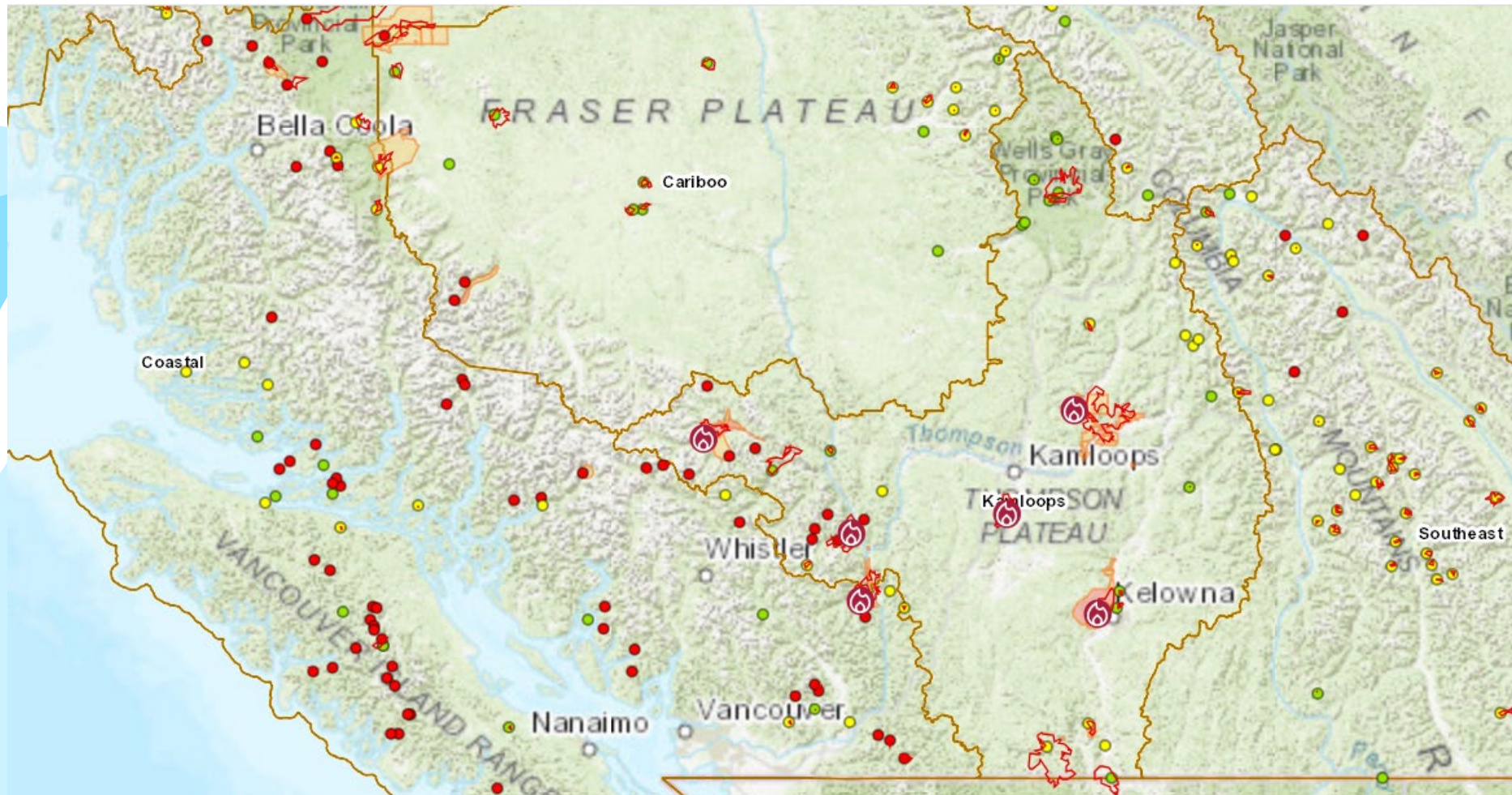
Sunshine Coast - Level 5



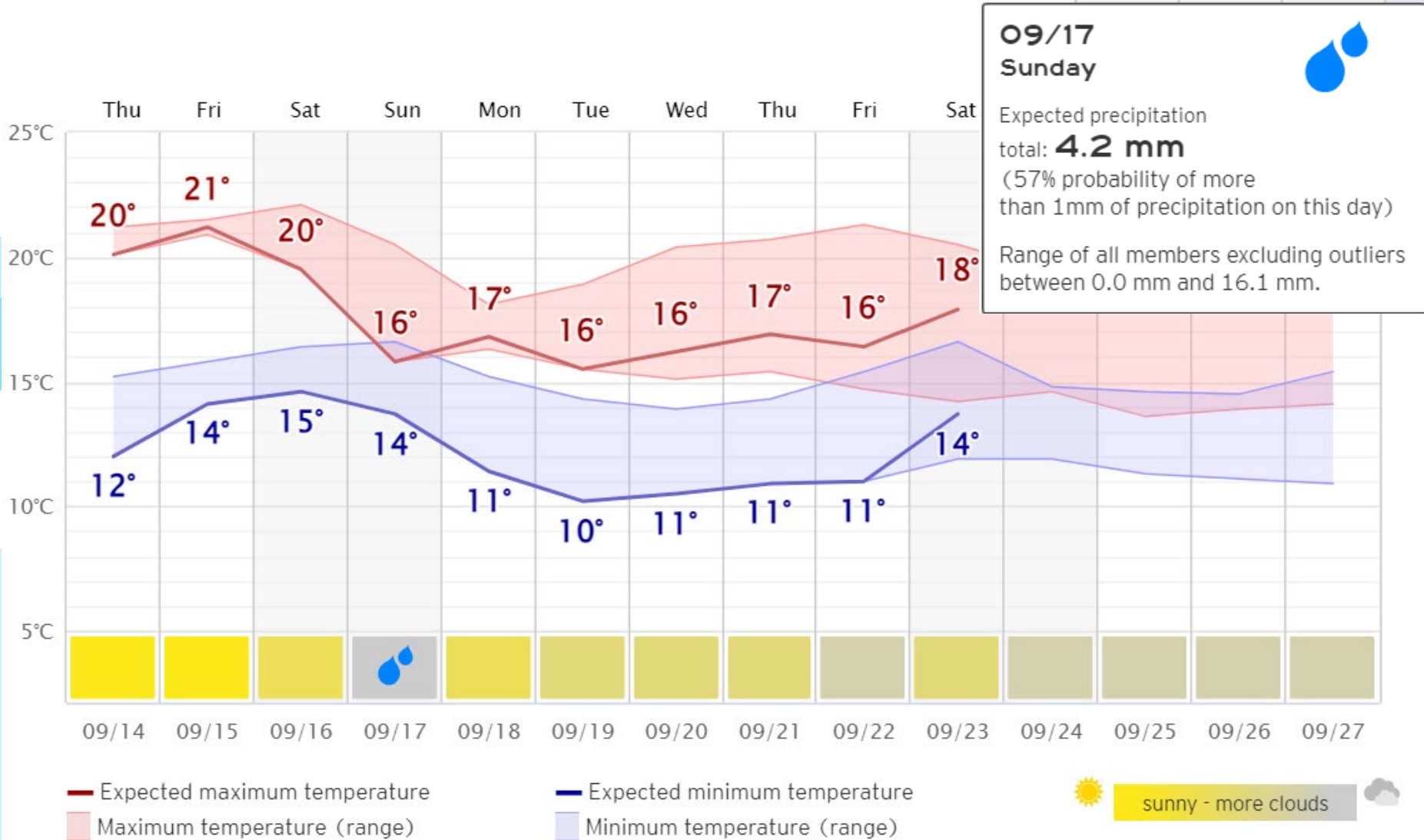
Drought Level Classification		
Level	Impacts	General Response Measures
0	There is sufficient water to meet socio-economic and ecosystem needs	Preparedness
1	Adverse impacts to socio-economic or ecosystem values are rare	Conservation
2	Adverse impacts to socio-economic or ecosystem values are unlikely	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

Fire Risk

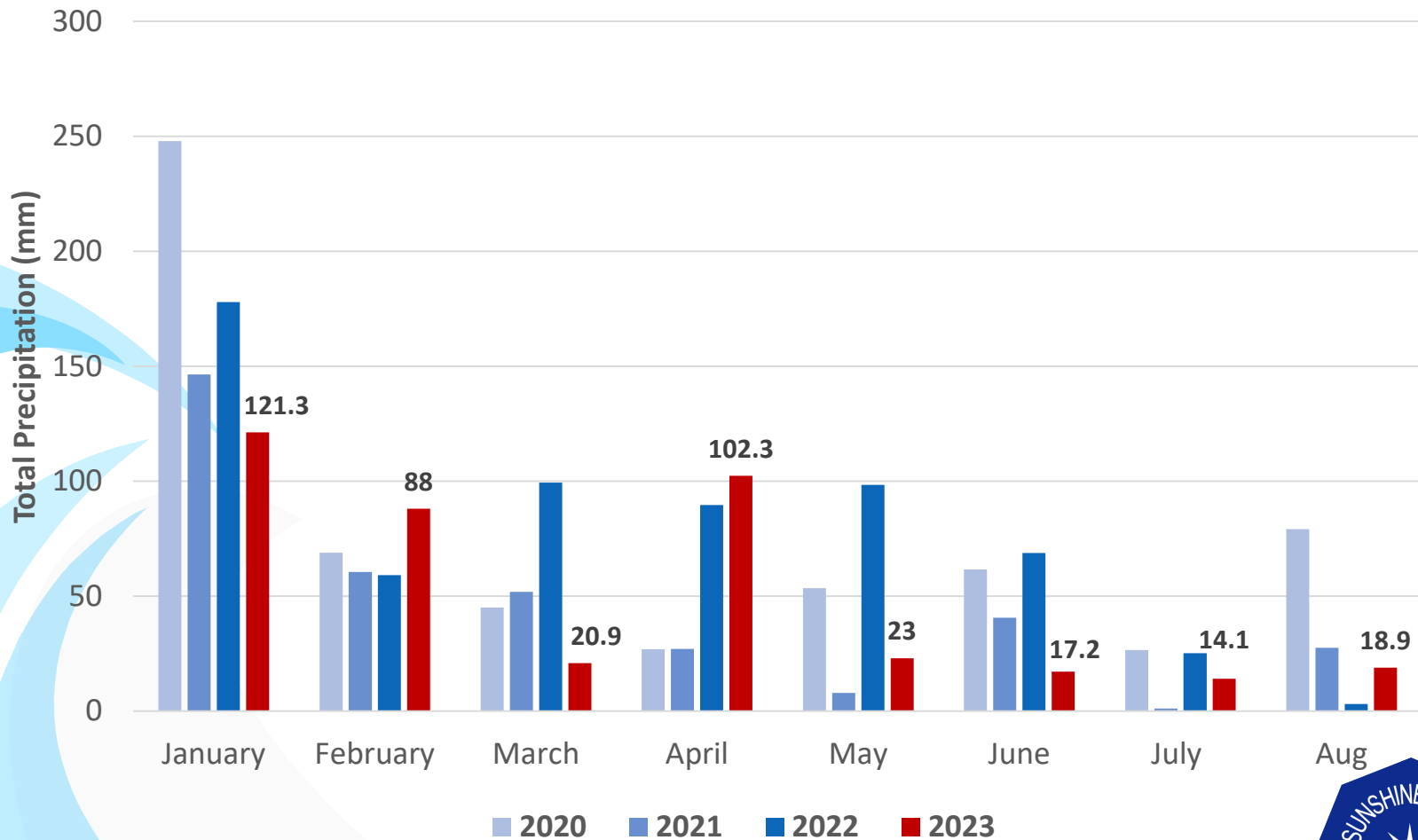
Increased risk of forest fires as dry weather continues
Provincial state of emergency extended until Sept 14, 2023



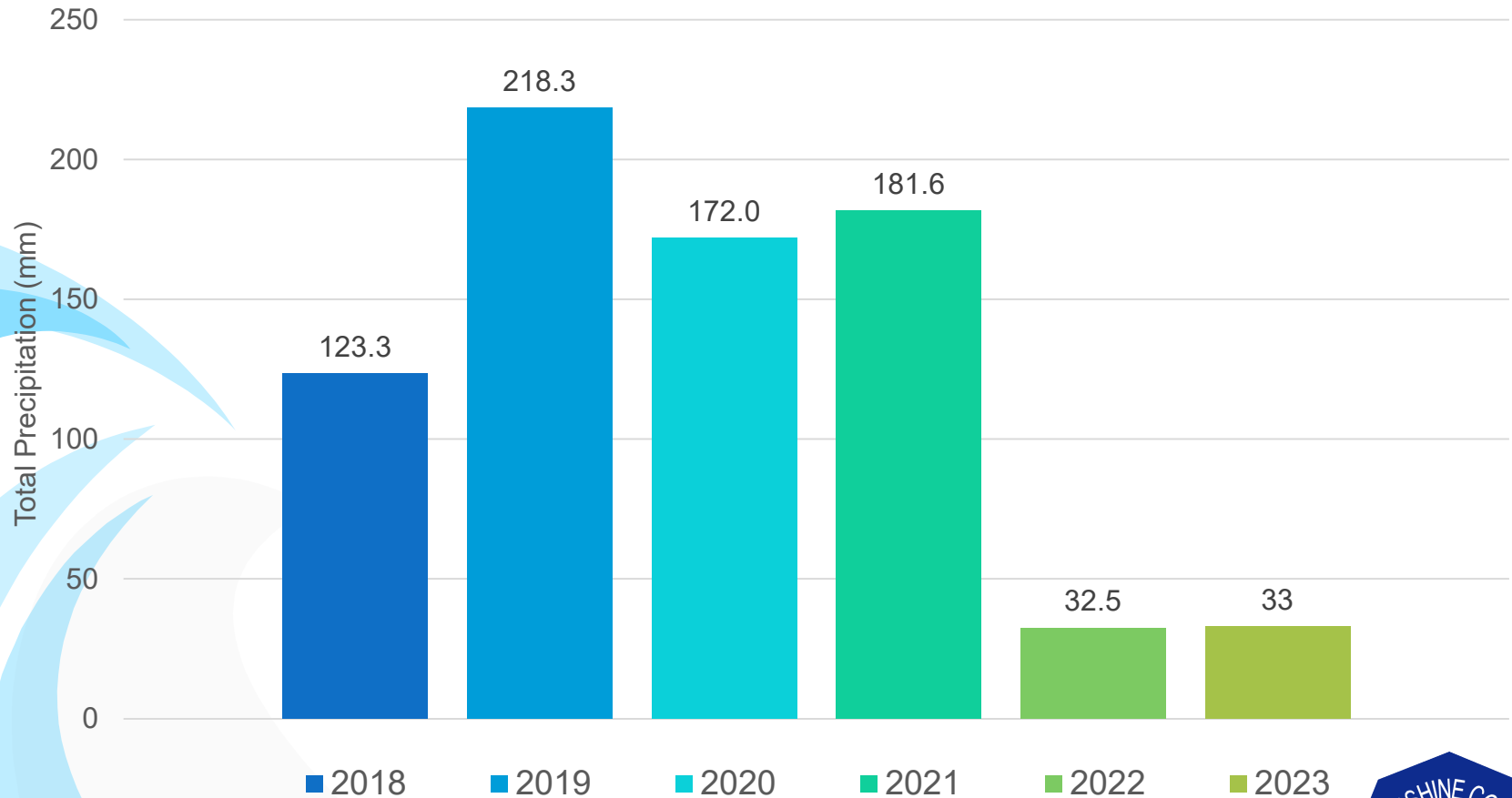
14 Day Forecast



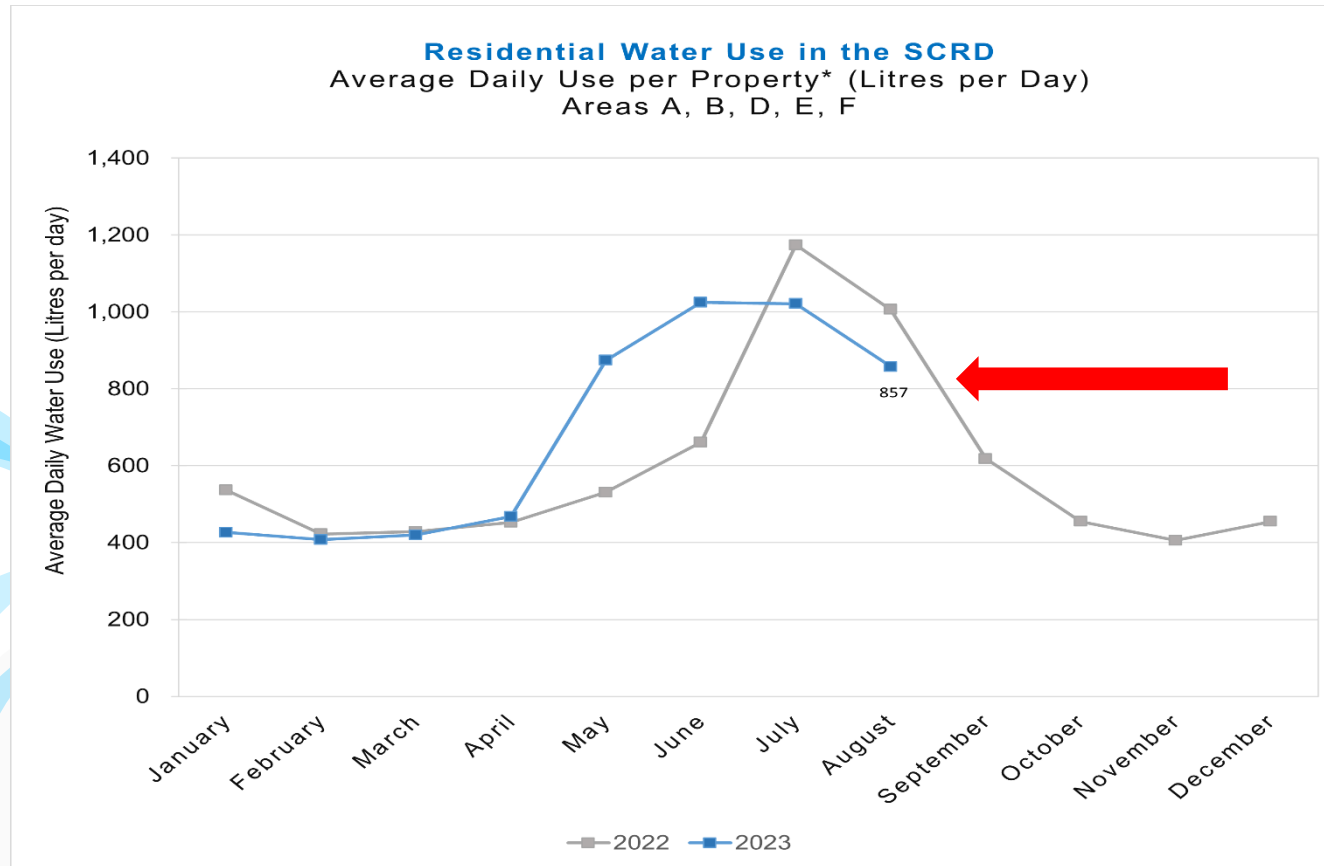
Rainfall Data



Cumulative Summer Rainfall by Year: July - August - September



Metered Residential Water Use



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



Eastbourne Water System

- Stage 4 on July 31
- Well volumes are low
- Water rationing utilizing residents' storage tanks
- Overall well production dropped by 294.69 LPH from July 26 to September 9
- Thank you to residents of Eastbourne Water system for conserving water year-round



Harris Lake – September 5



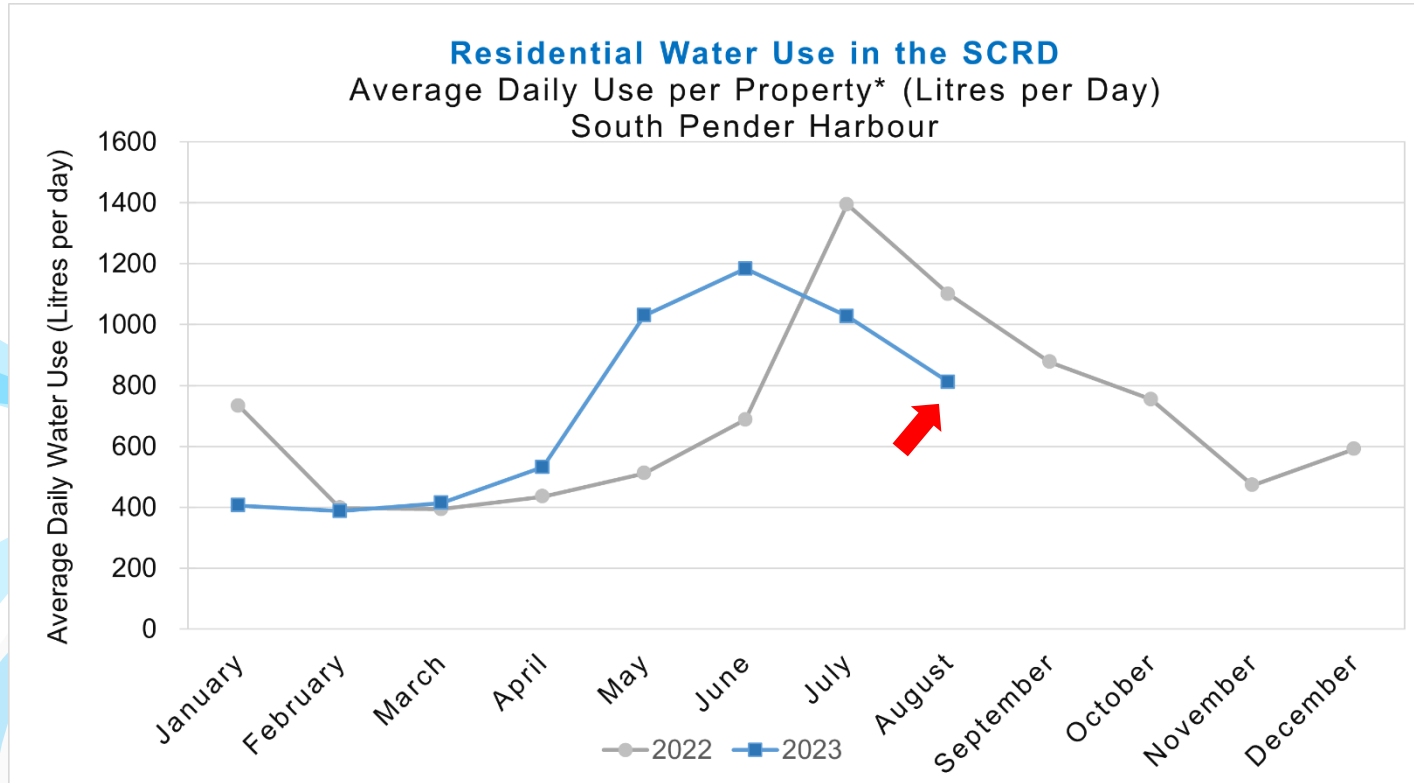
South Pender Water System

- Provincial drought, with hot and dry early summer, dropped McNeill Lake levels quickly
- Current level is lower than at this time last year
- Rate of decline slowed due to increased supply from Harris Lake, Stage 3 regulations, and rain events
- Have released approx. 3' of water from Harris Lake
- Staff working on solutions to access more water from Harris Lake now and next year.
- Thank you to residents and businesses for conserving



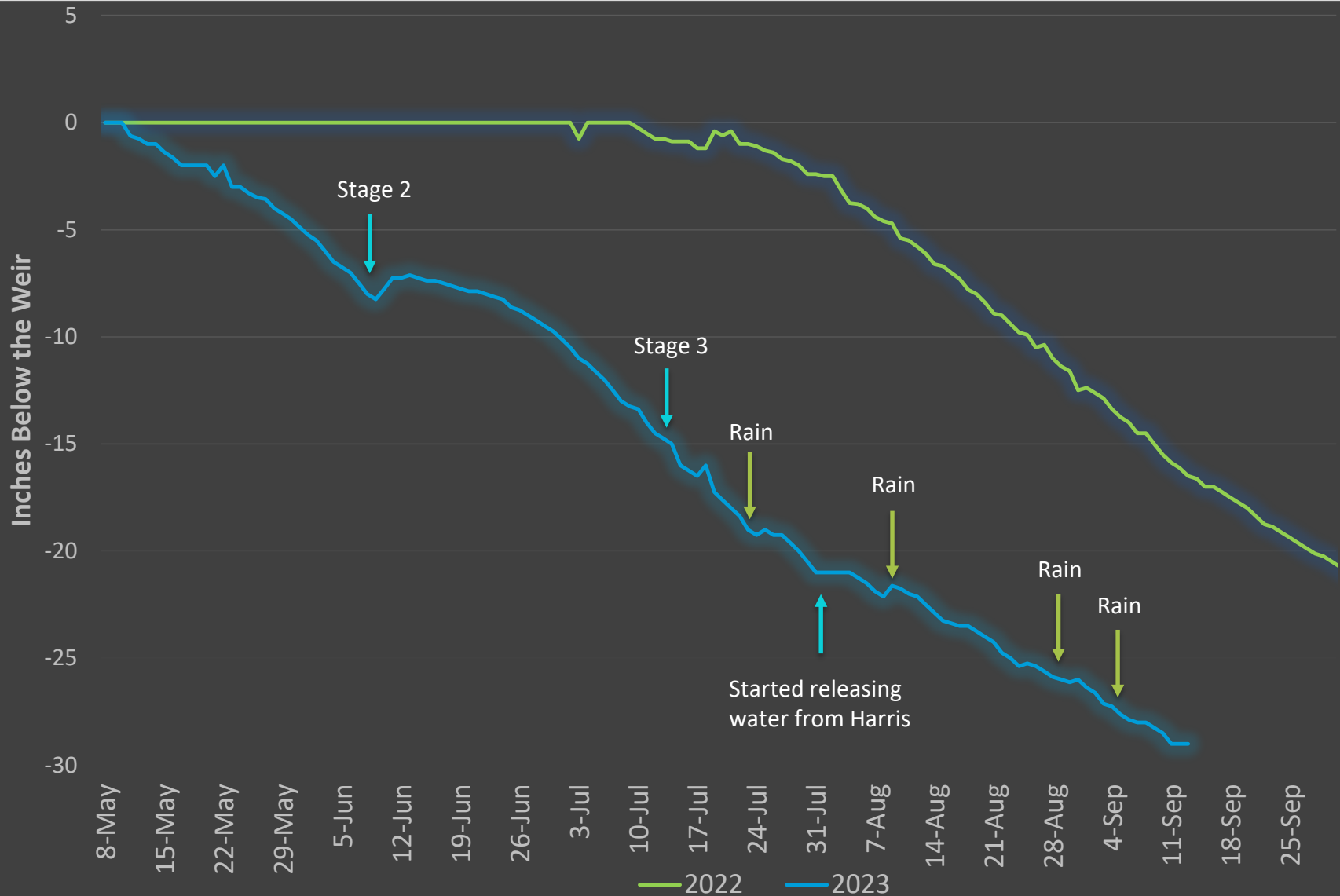
South Pender Water System

Began 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	1,027	811				

McNeill Lake Level



Chapman Water System

Stage 4 began September 8

This means a **BAN ON ALL OUTDOOR USE OF SCRD DRINKING WATER.**

This includes, but is not limited to:

- watering gardens and greenhouses
- construction activities
- road and property maintenance.

Under these drought conditions, water use priorities focus on water for human health, firefighting and minimum creek flow requirements.

Rainwater catchment and greywater for non-potable uses is encouraged where possible. Check with public health guidelines for best practices.

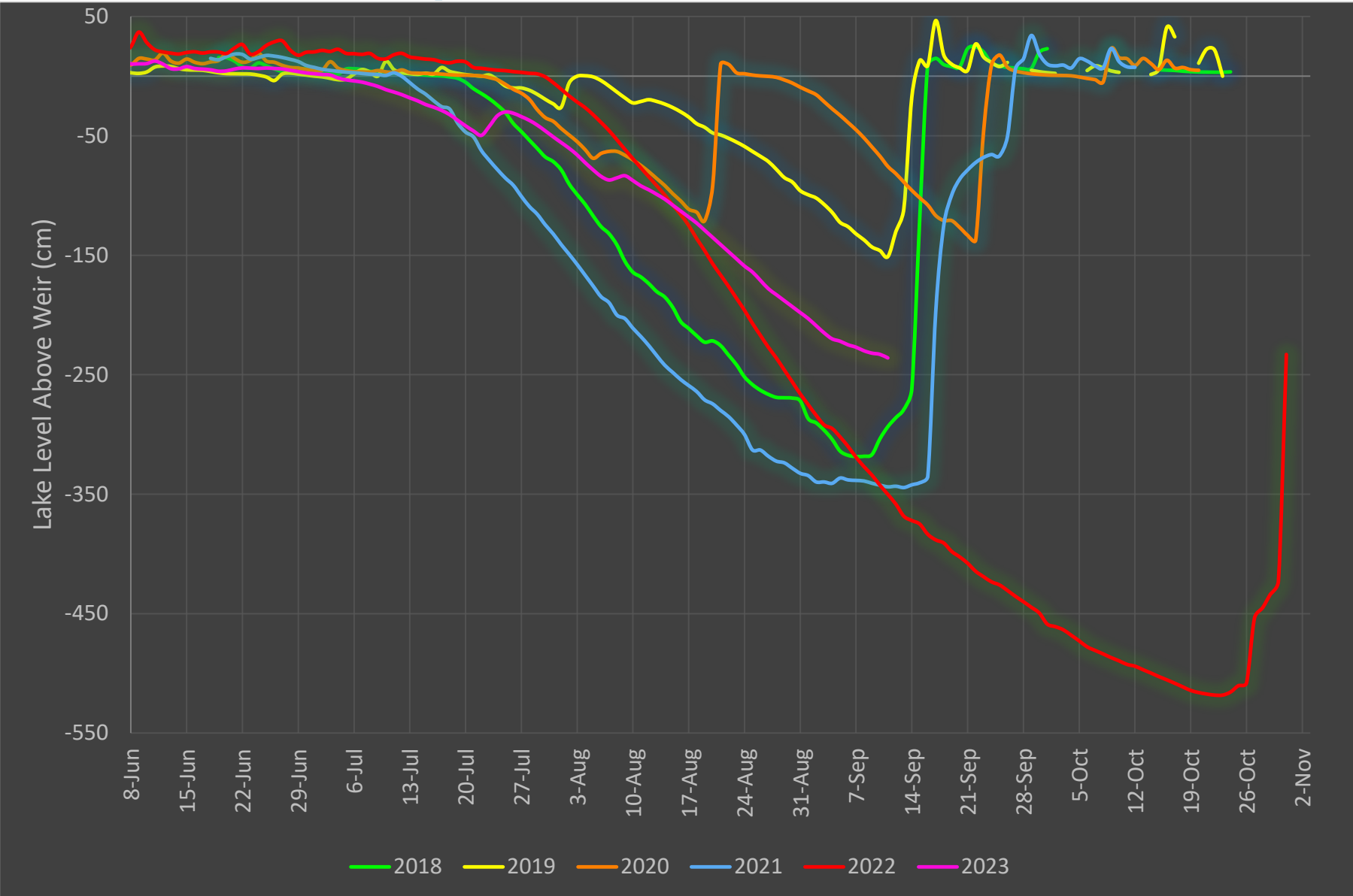


Chapman Water System



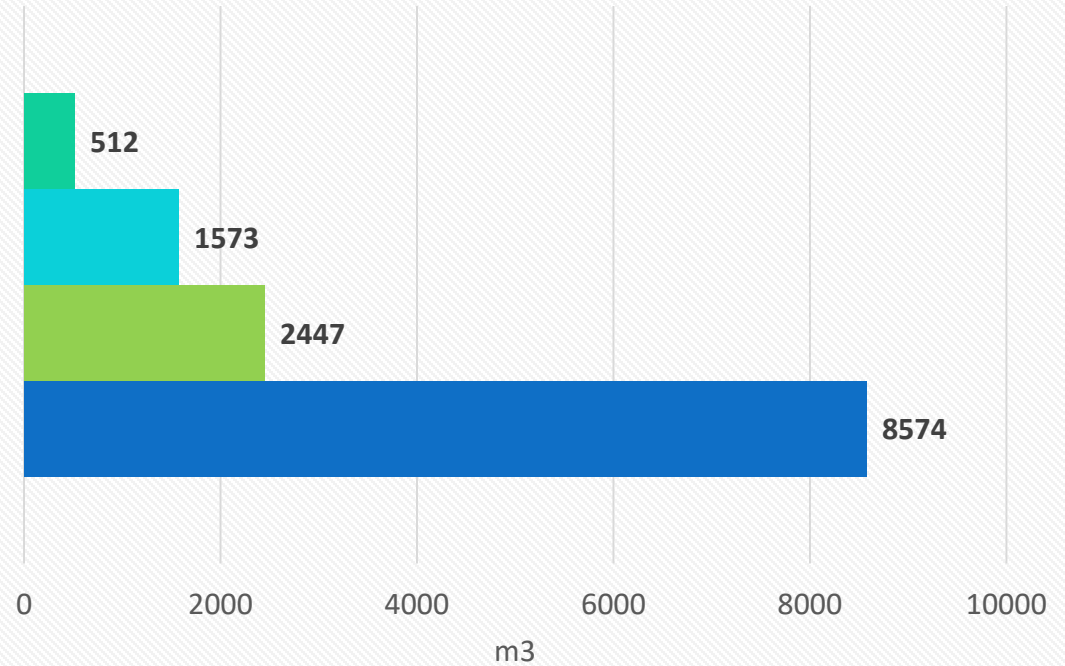
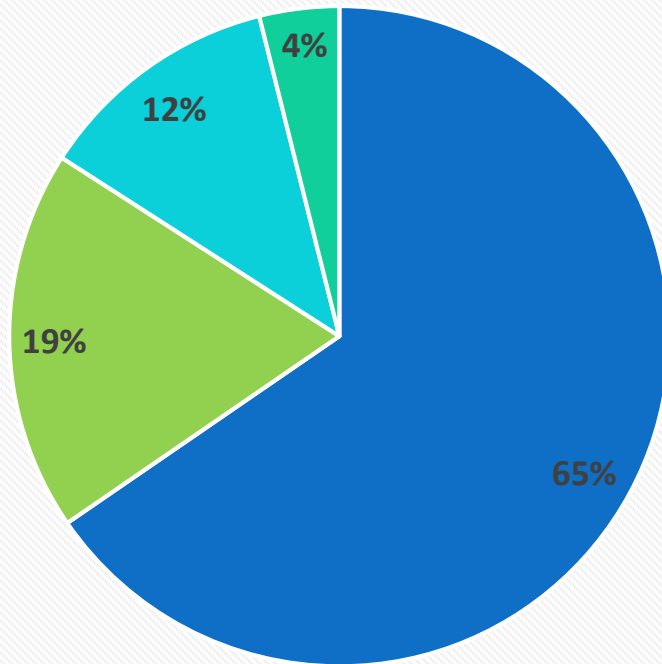
- Lake volume accessible via dam outlet is nearly exhausted, siphons are now on to access emergency storage capacity, lake dropping approx. 5cm/day
- Started taking water from Edwards Lake September 6, Edwards dropping 3cm/day
- Church Road and Gray Creek online contributing significant volume and extending supply in Chapman and Edwards Lake

Historic Chapman Lake Levels



Chapman System Supply Sources

Sept 3 – Sep 9, 13, 106 m³/day average



■ Chapman Lake

■ Church Road

■ Gray Creek

■ Chaster Well

Church Road Update

- Tentative date to install filters scheduled.
- Spare well pump motors have arrived
- Onsite visit with Drinking Water Officer from VCH Sept 6
- Operators optimizing use of source and integration into the Chapman Water Distribution System



Environmental Flow Needs Soames Creek (Church Rd)



- As Church Road is online, we are required to maintain Environmental Flow Needs in Soames Creek.
- A mitigation line feeds water to the creek to ensure flows and ramping rates are maintained, 15.7 L/sec is required for Sept
- Monthly reports have been submitted to Province as required by the monitoring plan

Environmental Flow Needs

Chapman Creek

- The Province provided approval on Sep 11 for an immediate 2-week reduction in EFN if there are no salmon in Chapman Creek
- Pink salmon arrived in Chapman Creek several weeks ago, Province is aware
- SCRD will provide a letter back to the Province with feedback and requests for next steps, including review of Chapman Creek EFN submitted in 2022



Environmental Flow Needs

Chapman Creek

- SCRD and sNGD staff are taking fish observation counts and water quality samples in Chapman Creek, between Brookman Park and the Airport
- Staff have counted over 3000 fish in the creek some days
- The Province has indicated that this data will be necessary for the EFN requests going forward.



Photo credit: shísháhl Nation



Stage 4 Communication Plan

- News Releases
- Media Interviews
- Direct Mail Flyer through Canada Post to affected properties
- Coast Reporter Ads (Paper and Digital)
- Coast Reporter SCRD Bulletin
- Local radio ads
- Facebook boosted posts
- Banner on Webpage
- Highway, road and lawn signs
- Banners at key locations and Fire Halls
- Signs at SCRD Parks
- Announcements on BC Ferries



Stage 4 Direct Actions

- Six shut-off notices were sent mid-August to properties with leaks greater than 10,000 LPD; four resolved their leaks and two greatly reduced
- Direct communication to top commercial accounts, commercial farms and impacted businesses
- Commercial and residential leak letters sent out to 430 properties in early September
- Increased Bylaw follow up and ability to proceed directly to a \$500 fine for Violations in Stage 4



Supporting Local Farms and Businesses



The SCRD is offering a bulk non-potable water filling station, located in Langdale, to support business continuity for farm irrigation or construction projects impacted by Stage 4.

Please contact 604-885-6806 or email infrastructure@scrd.ca for more information



Learn more

- For current information on water supply and Stage 4 visit, www.scrd.ca/water-updates
- The next scheduled water supply update will be **September 28, 2023**

Chapman Lake Water Storage Level

8%

Last updated: Sep 12 2023

Previous Water Storage Levels (2023)

July 3	100%	Sep 11	9%
July 10	96%	Sep 12	8%
July 17	89%	Sep 13	
July 24	82%		
July 31	80%		
Aug 7	65%		
Aug 14	59%		
Aug 21	45%		
Aug 27	32%		
Aug 28	29%		
Sep 4	16%		

Questions?

