

Water Supply Update

Committee of the Whole
June 22, 2023



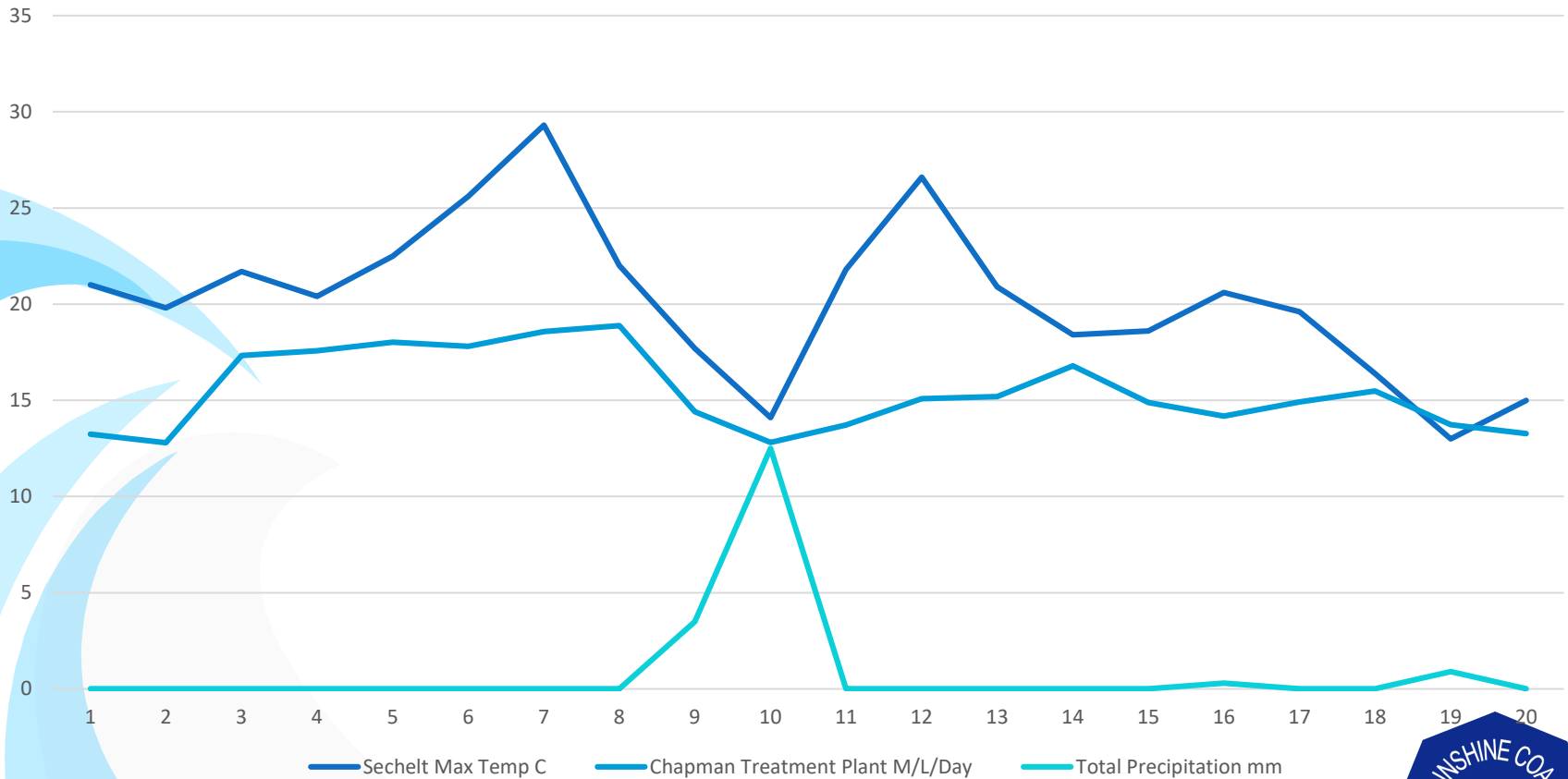
Chapman Water System

- Currently at Stage 1- Stage 2 in the coming weeks
- SCRD staff meet at least weekly to assess current water supply situations and scenarios for each water system.
- Rain on June 9 & 10
- June 3-9 122,596,000 L Chapman Plant
- June 10-16 102,660,000 L Chapman Plant
- Week total ~16% reduction-cooler weather and rain



Chapman Treatment Plant

June: Temperature-Consumption-Precipitation



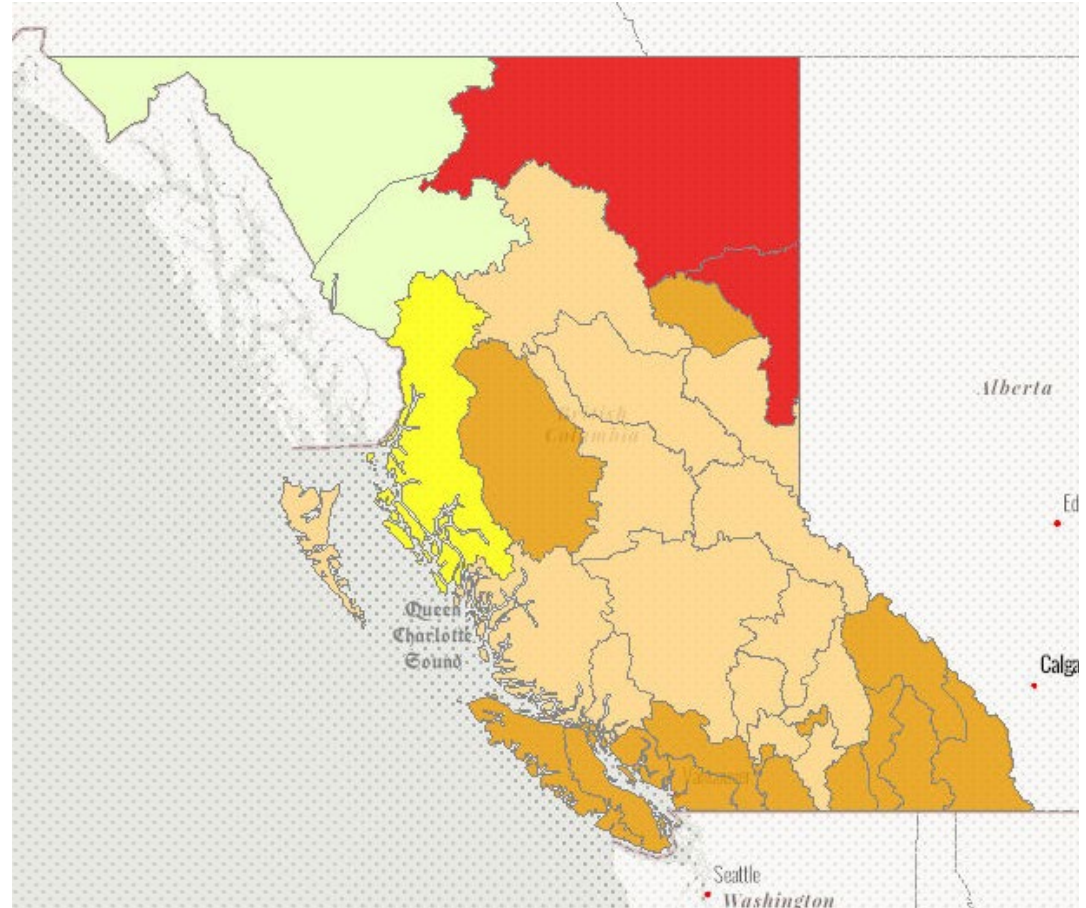
South Pender Water System

- Since moving to Stage 2 on June 9, this system has remained in compliance with water licence.
- Average production of water has decreased by 15% -- **thank you to everyone for conserving!**
- Stage 2 means a ban on all lawn watering, no exterior washing for aesthetic purpose (allowed for surface preparation before maintenance).
- Staff continue to work with SPH residents to resolve private side leaks.



BC Drought Conditions


- The Province uses a 6 level drought classification to describe the impacts of drought conditions.
- Sunshine Coast Region is currently at Level 3 – Severely Dry, as with much of the South Coast.




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British Columbia Drought Levels

 Drought Level 0 - No Adverse Impacts

 Drought Level 1 - Adverse Impacts Rare

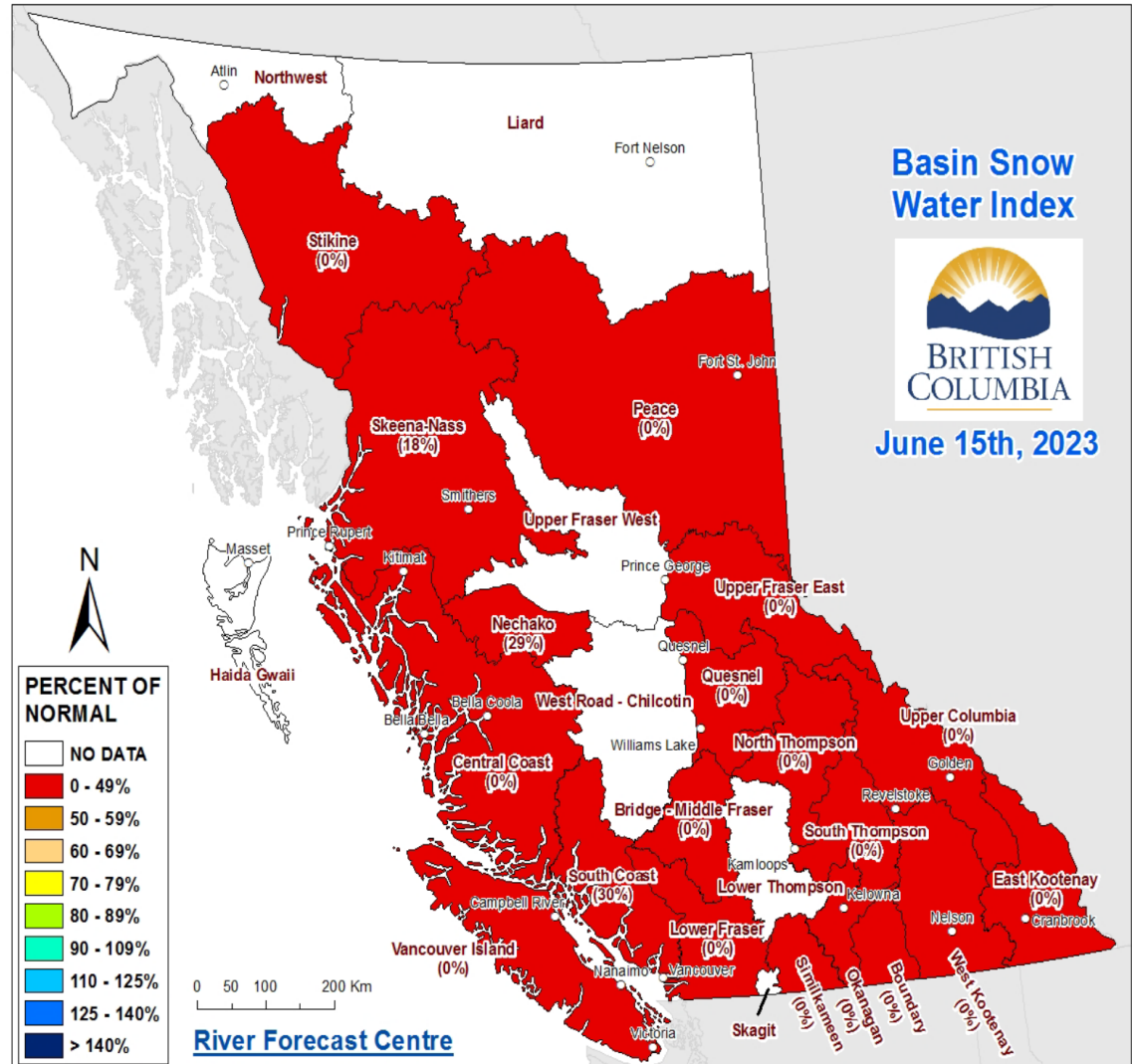
 Drought Level 2 - Adverse Impacts Unlikely

 Drought Level 3 - Adverse Impacts Possible

 Drought Level 4 - Adverse Impacts Likely

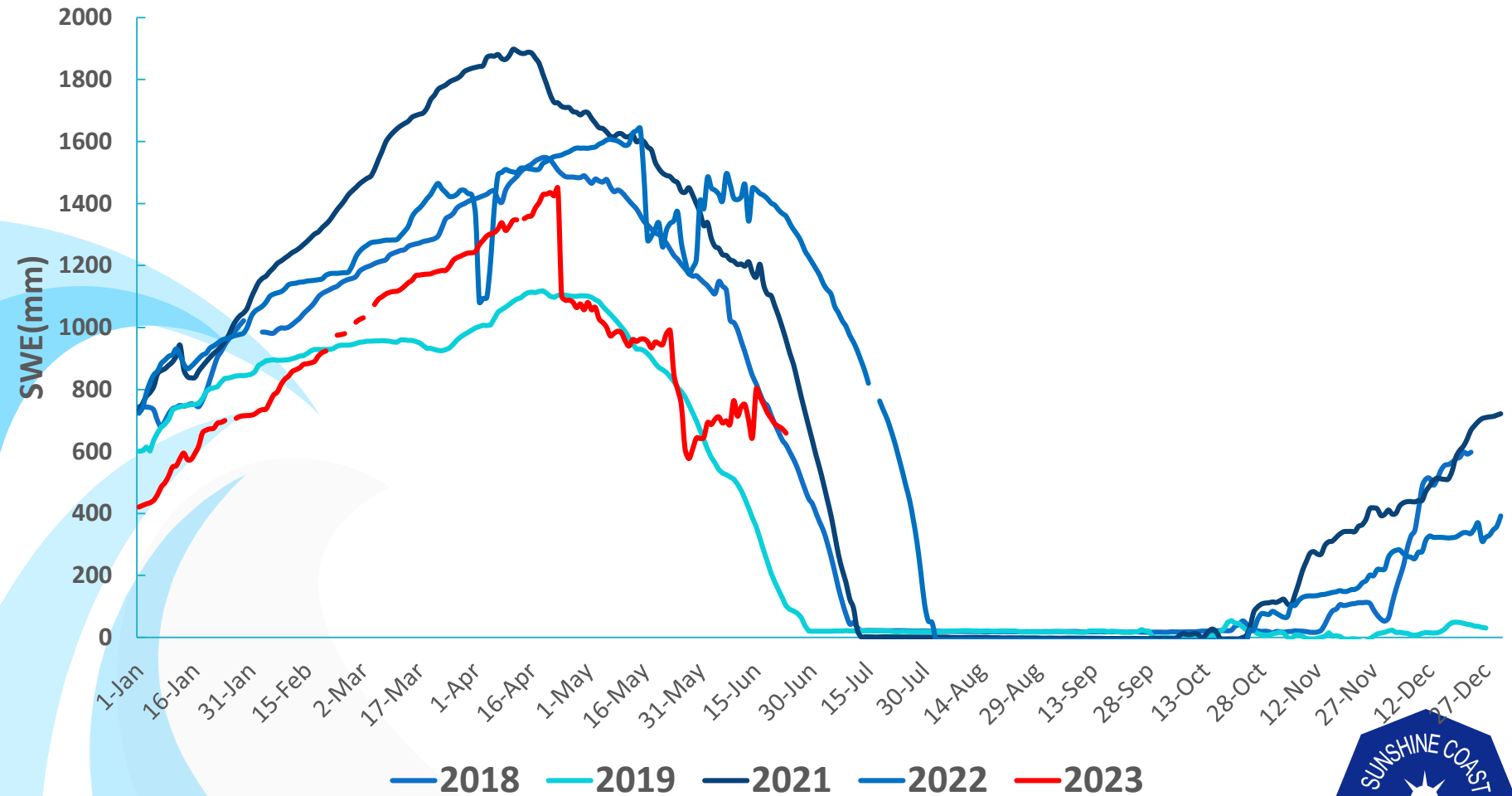
BC Snow Bulletin

- June 15th, 2023 Basin Snow Water Index Map of British Columbia.
- Sunshine Coast Region is currently 30% of normal



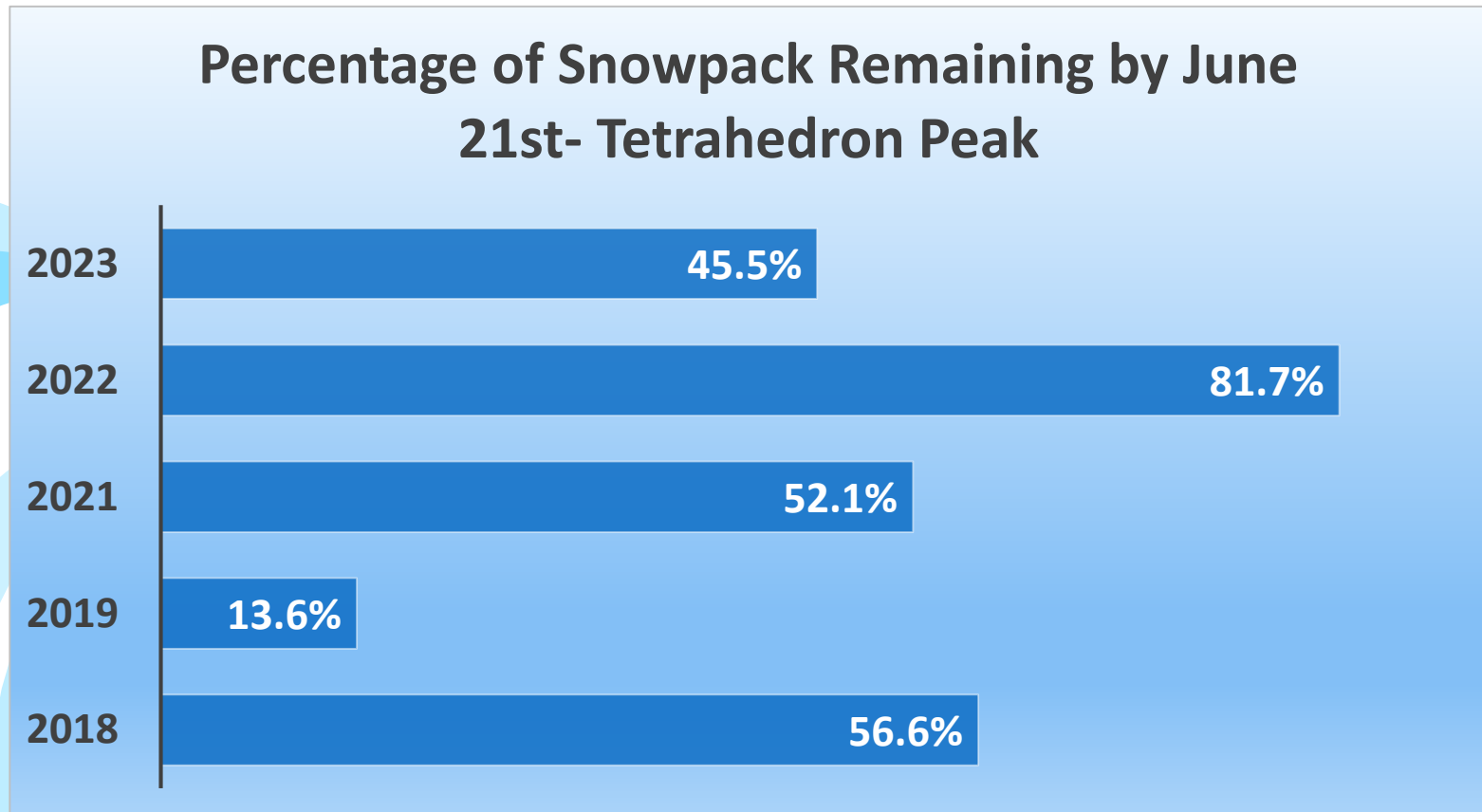
Tetrahedron Weather Station

Annual Snow Water Equivalency(SWE)- Tetrahedron Weather Station



Tetrahedron Weather Station

- Historic June Snowpack comparison



Tetrahedron Weather Station

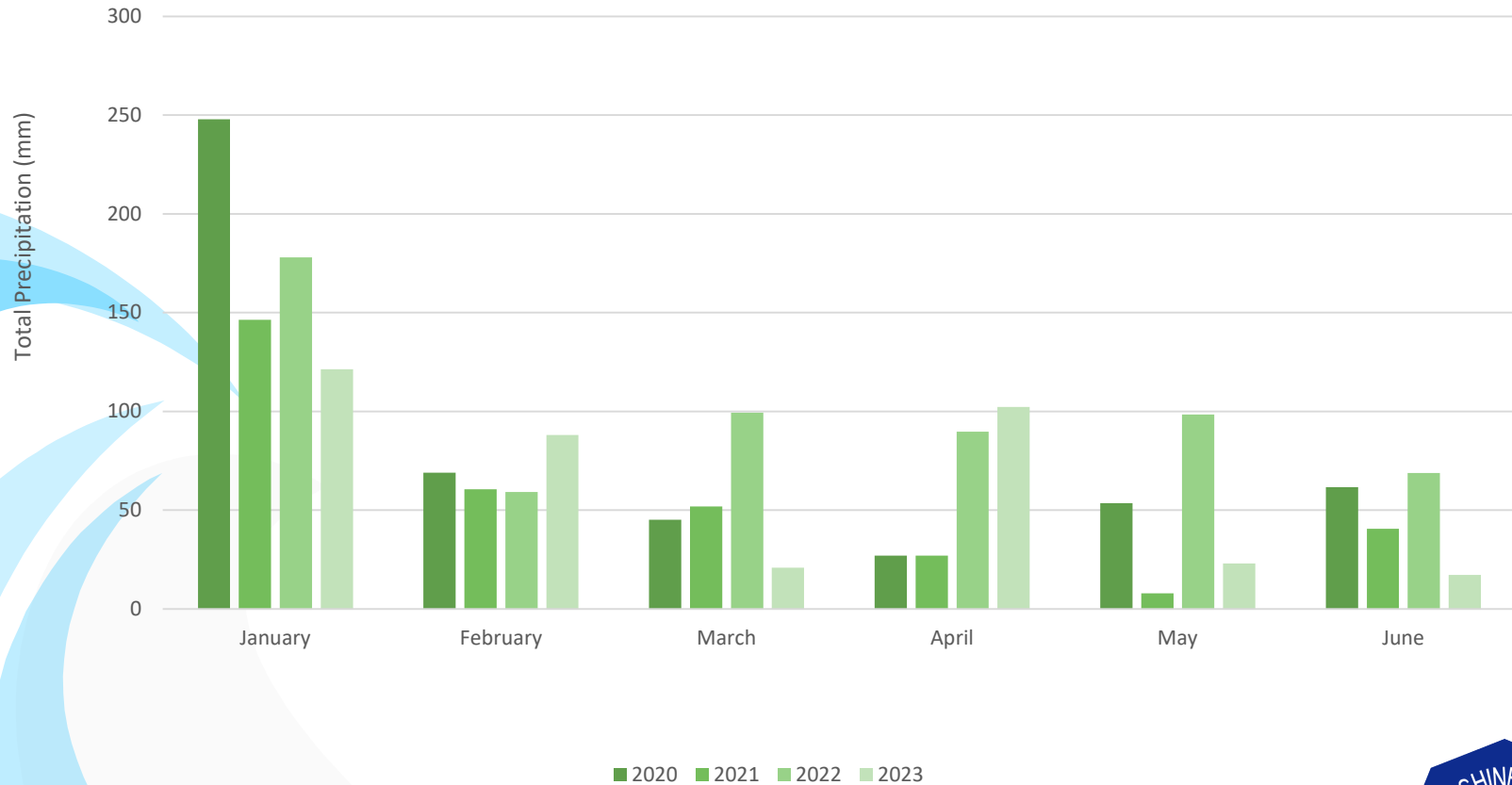
- Snowpack and Stage 2 comparisons

Year	Stage 2 Called (Chapman Dam not Overflowing)	Snowpack remaining at Tetrahedron peak
2018	17-Jul	6%
2019	23-Jun	9%
2021	12-Jul	3%
2022	28-Jul	18%
2023	N/A	45.5%(June 21)

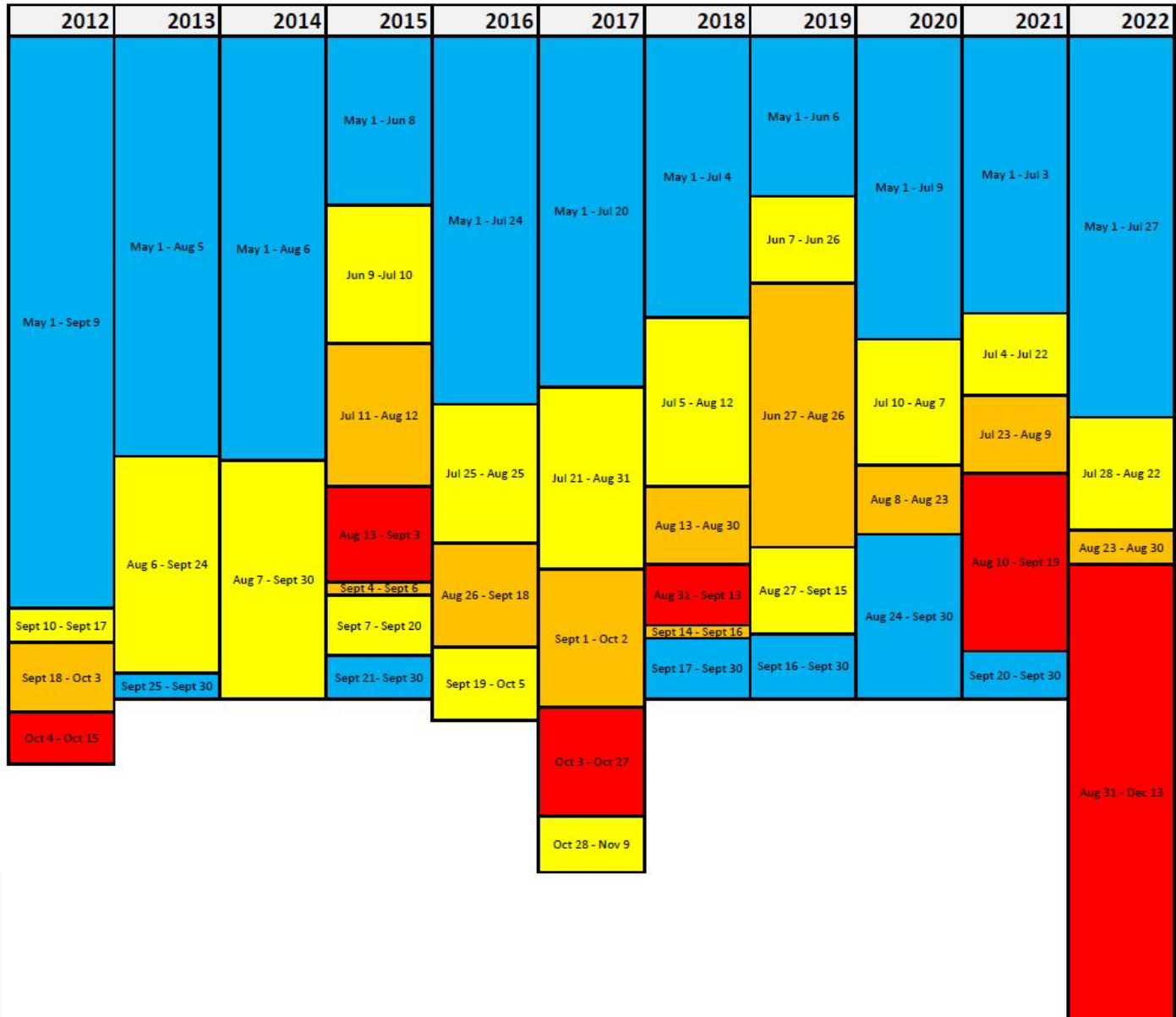


Rainfall Data – Sechelt Airport

Monthly Total Precipitation 2020 -2023

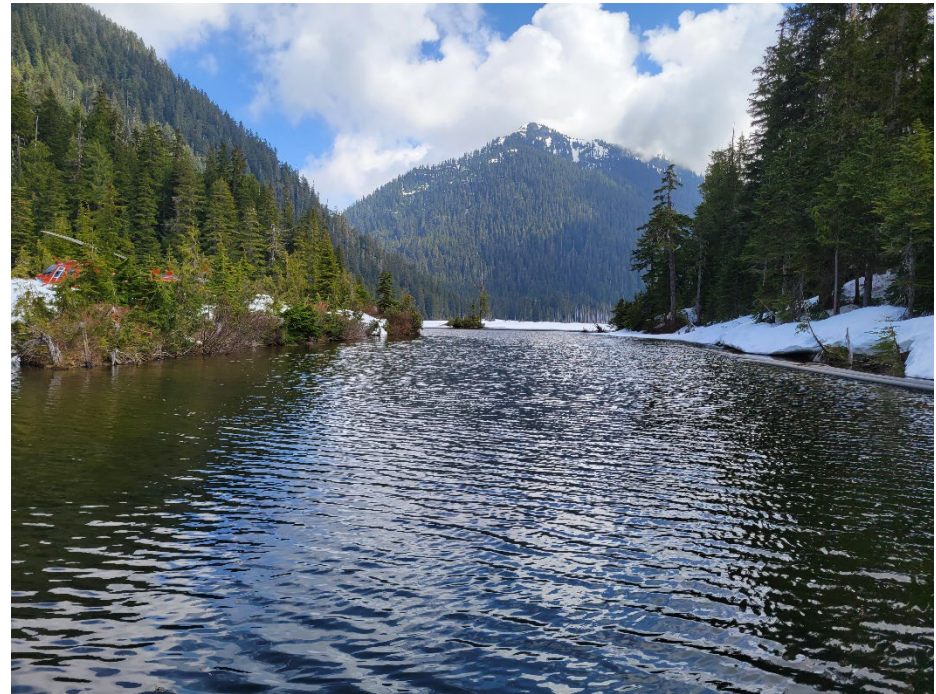


Historical Stage Calling



Water Source Updates

- Lakes are currently full and overflowing over the dam.
- Chaster Well is contributing around 750,000 L per day to Chapman Water System.
- Preparing to bring Gray Creek online. Flushing and cleaning underway.



Chapman Lake, view from the dam (May 30, 2023)

Church Road Well Field Project

- The well field is complete, tested and ready to be put online.
- June 20 meeting with Province-Ministry of Forests and contractor was positive and collaborative. This file is their top priority, and the team is aiming for a June 30 approval.
- This well field will be online as soon as we obtain the leave to commence diversion.
- Ongoing compliance monitoring of the creek will be required for two years, RFP has been posted.



Church Road Integration



Environmental Flow Needs(EFN) Chapman Creek

- Environmental Flow Needs is a provincial requirement under the Water Sustainability Act to ensure stream flows for aquatic ecosystems and fish.
- SCRD staff met with DFO in June.
- EFN application has been submitted to the Province. Next steps include First Nation consultation to develop robust monitoring program.
- Recommendations developed by consultant (RPBio) are 160l/s in Jun/Jul and 180l/s in Aug/Sep, that would be supported by a robust monitoring program.



Water Conservation Communications

- 349 leak letters went out on June 7, actively working with +50 residents.
- Continue to address major ongoing leaks that may be issued shut off notices.
- Staff have connected with SCREDO and Sunshine Coast Tourism to host outreach to businesses.
- Rainwater Harvesting Rebates have all been allocated.
- Encourage everyone to sign up for their monthly water use update!
scrd.ca/water-use

		Water Conservation Regulations			
		STAGE 1	STAGE 2	STAGE 3	STAGE 4
		MAY 1 TO SEP. 30	BASED ON DEMAND AND ENVIRONMENT		
WATERING					
Hand held container Hose with spray trigger nozzle Drip-irrigation	Trees, flowers and shrubs	PERMITTED	4 hours/day max. 7am - 10am and 7pm - 9pm	1 hour/day max. 7am - 10am or 7pm - 9pm	
	Food producing trees and plants	PERMITTED	PERMITTED	2 hours/day max. 7am - 10am and 7pm - 9pm	
Sprinkler Soaker hose Micro-spray	Lawns	Two days per week: 7am - 8am Even numbered address: Thu/Sun Odd numbered address: Wed/Sat <i>(Other watering is prohibited at any time)</i>	NOT PERMITTED	NOT PERMITTED	
	Trees, flowers and shrubs	Three days per week: 7am - 8am and 7pm - 9pm Even numbered address: Tue/Thu/Sun Odd numbered address: Mon/Wed/Sat	Two days per week: 7am - 8am Even numbered address: Thu/Sun Odd numbered address: Wed/Sat	NOT PERMITTED	
	Food producing trees and plants	Three days per week: 7am - 8am and 7pm - 9pm Even numbered address: Tue/Thu/Sun Odd numbered address: Mon/Wed/Sat	Two days per week: 7am - 8am and 7pm - 9pm Even numbered address: Thu/Sun Odd numbered address: Wed/Sat	NOT PERMITTED	
WASHING					
Hand held container Hose with spray trigger nozzle	Sidewalks, driveways, windows, fences and exterior building surfaces	PERMITTED	NOT PERMITTED except for prepping surfaces for parking or paving and for health and safety regulations.	NOT PERMITTED except for health and safety regulations.	
	Vehicles and boats	PERMITTED	PERMITTED	PERMITTED only to wash off sea water.	
FILLING					
Swimming pools and hot tubs Garden ponds and fountains		PERMITTED	PERMITTED	NOT PERMITTED	
		PERMITTED	PERMITTED	NOT PERMITTED	
STAGE 4 BAN ON ALL OUTDOOR WATER USE					
FINES		STAGE 1 \$200	STAGE 2 \$300	STAGE 3 \$400	STAGE 4 \$500

Questions or report a violation: 604-885-6806 | infrastructure@scrd.ca



Questions?

