Cowichan Watershed Board Meeting – Review of conditions at lake Cowichan

> June 25, 2018, Presentation by Brian Houle

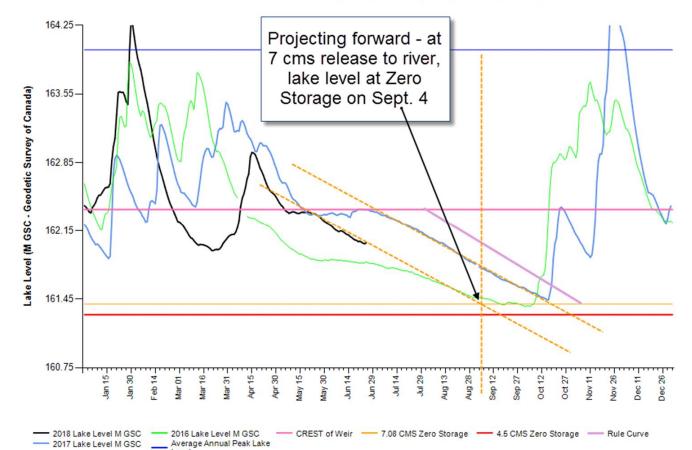


Aerial view of Lake Cowichan Weir





Lake level projection to fall shows inadequate inventory to sustain 7 cms

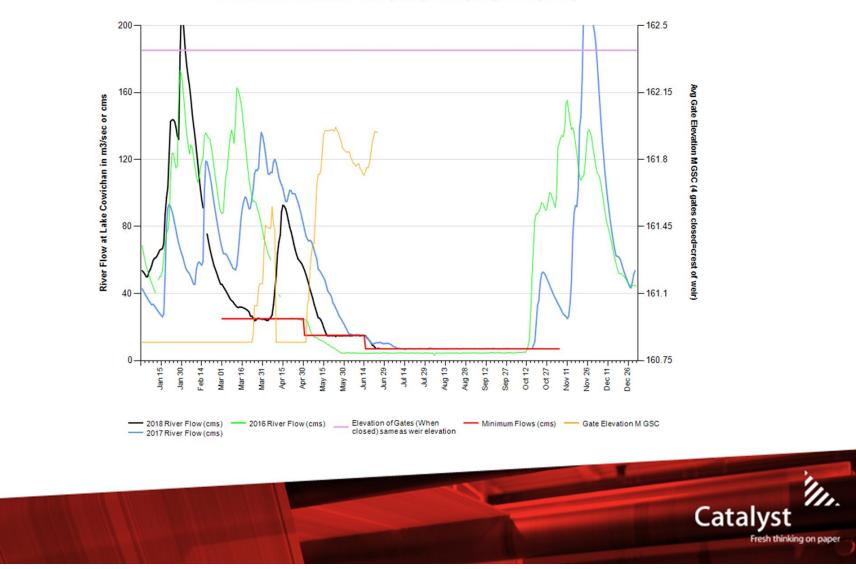


2018 Cowichan Lake Level - 2018 (Black) & 2017 (Blue) & 2016 (Green)

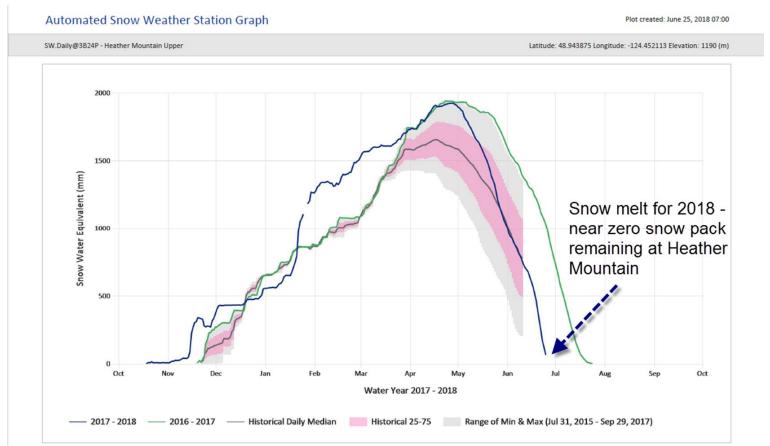


Release of water from lake being controlled to license minimum 7.08 cms

2018 Cowichan River Flow - 2018 (Black) & 2017 (Blue) & 2016 (Green)

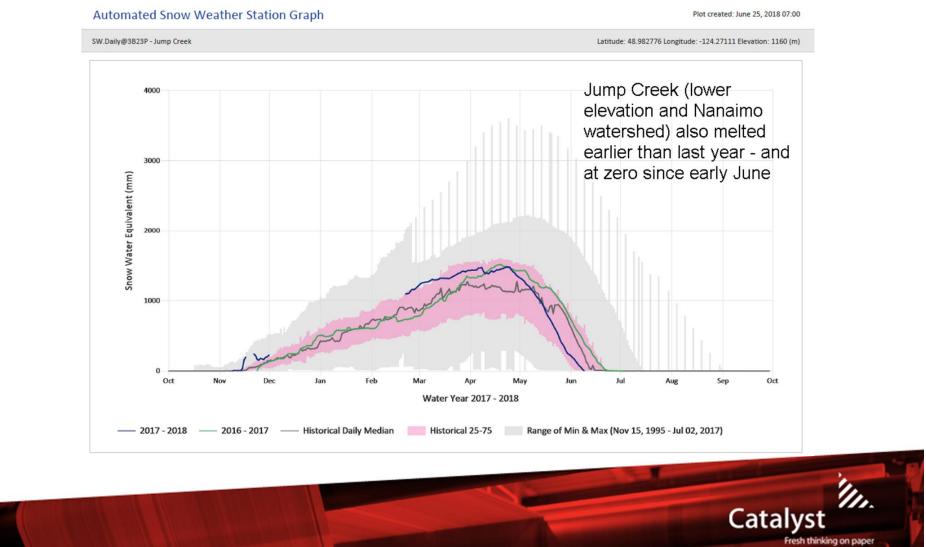


Heather Mountain snow pillow 2018 showing similar conditions as 2017 – except the earlier warmer weather and snow pack melting sooner





Jump Creek snow pillow showing similar situation as Heather Mtn: 2018 was similar to 2017 except for earlier warmer weather



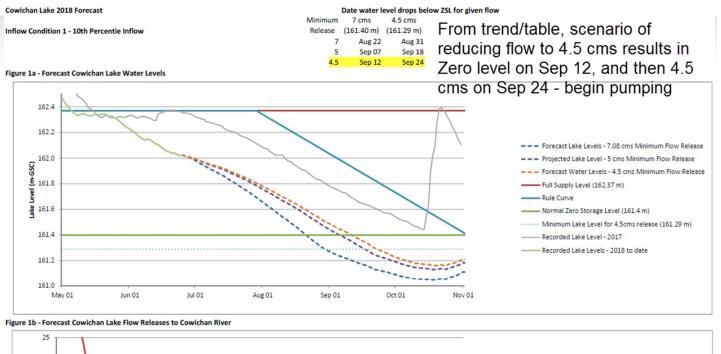
Weather Forecast for coming week does not indicate much rainfall but does include rain

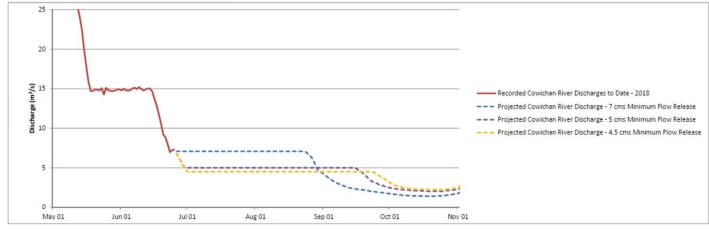
	Next 7 Days						
	Tue 06/26 A mix of sun and clouds	Wed 06/27 Cloudy with showers	Thu 06/28 Cloudy with showers	Fri 06/29 Chance of a shower	Sat 06/30 A mix of sun and clouds	Sun 07/01 Chance of a shower	Mon 07/02 Mainly sunny
	Ö			R	Ċ.	F	÷
	۹ ⁻ 17	17 _{10°}	14 [°] 11°	16 [°] 10°	18 [°] 11°	21 [°] 10°	21 [°] 10°
Feels like		17	13	16	20	23	22
POP	20 %	40 %	40 %	40 %	30 %	40 %	10 %
Wind (km/h)		9 sw	11 w	14w	14 sw	10 sw	8 w
Wind gust (km/h)	11	14	17	21	21	15	12
Hrs of Sun	- M h	4 h	3 h	7 h	6 н	8 h	12 h
24 Hr Rain	-	~1 mm	~1 mm	~1 mm	<1 mm	~1 mm	-



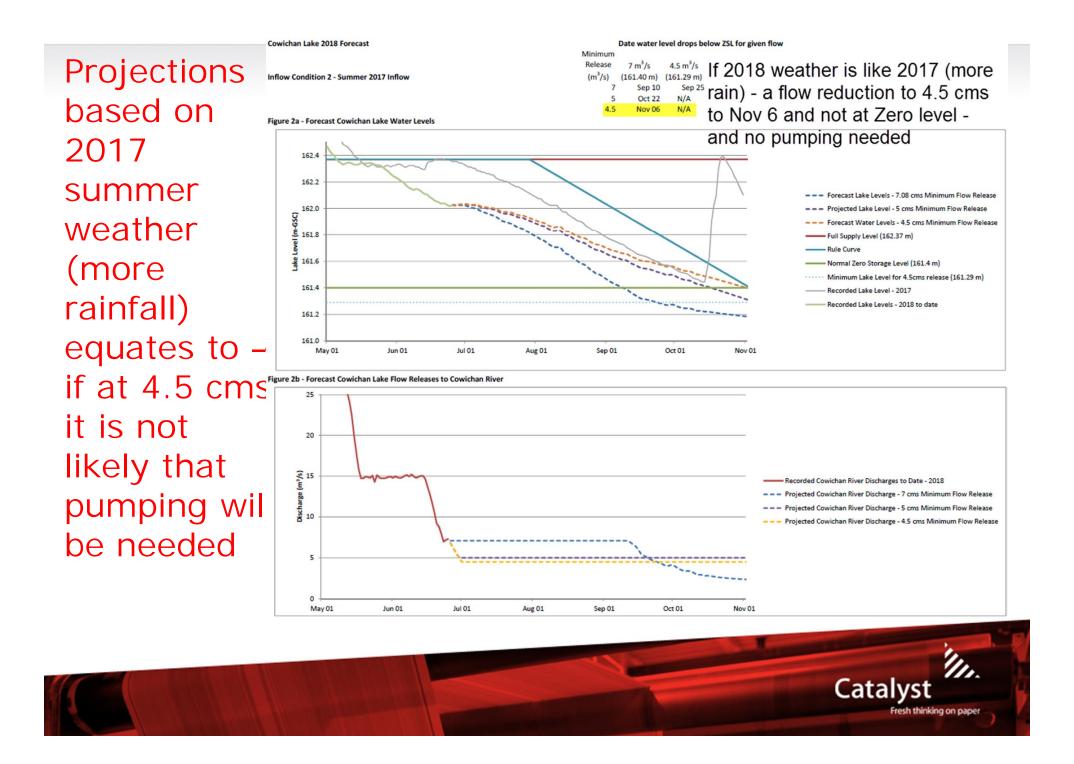
Kerr Wood Leidal projections

Not enough water in lake to sustain 7 cms @ 10th % inflows through dry season









2018 Conditions review – plan foward

- Boat Lock put into operation on March 21 with storage beginning prior to April 1.
- Off control early April when rainfall refilled lake
- On control again on May 1 and after May (driest May on record) and early warm weather, lake has dropped to now alarm low levels.
- With lake at 64% full, not have enough water to sustain 7 cms through to end of dry season
- Begin discussion for lower release flows from Lake Cowichan – 4.5 cms will allow sustained river flow for added 24 days: "last day of 4.5 cms / all gates 100% open" from August 31 to September 24.

