RioTinto

Nechako Reservoir / River / Freshet Information Sharing — Community Leaders

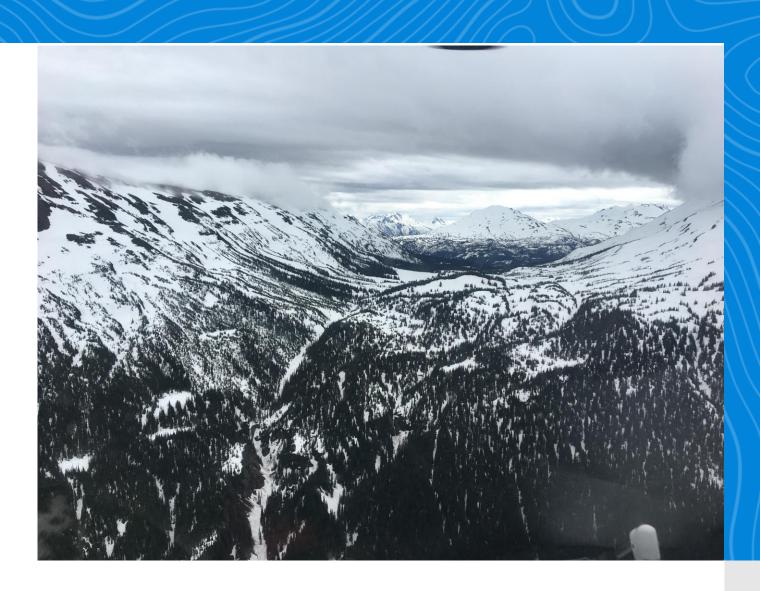
02 February 2022

Prepared by Andrew Czornohalan and Alec Mercier

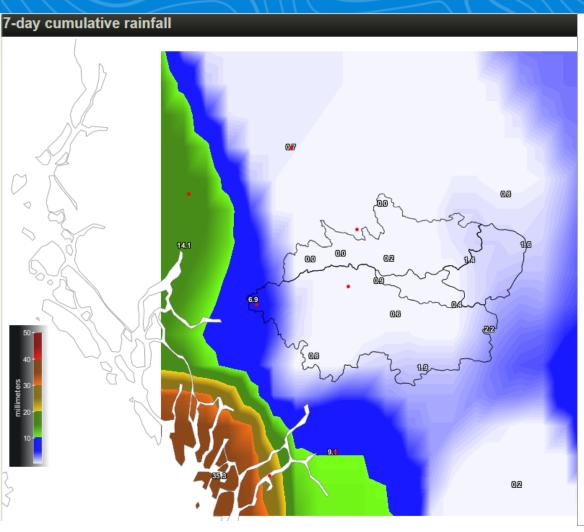


Key Focus

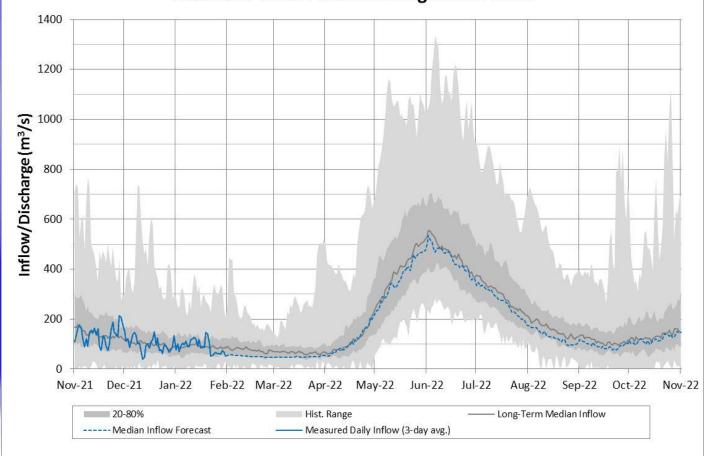
- Current Watershed Data: Precipitation and elevation
- 2. Winter Operation & Forward look to Spring



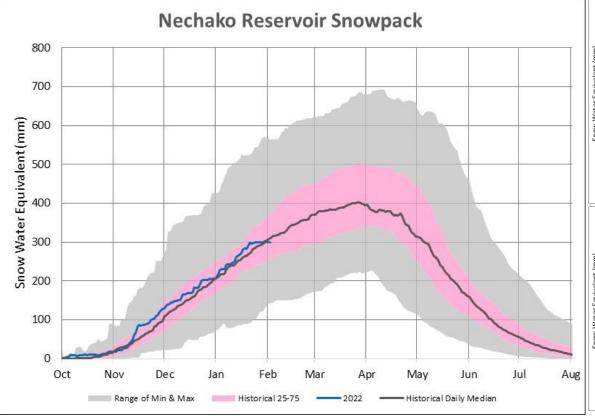
Observed Precipitation, Inflows vs Historical

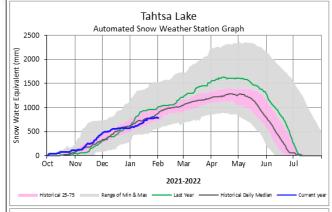


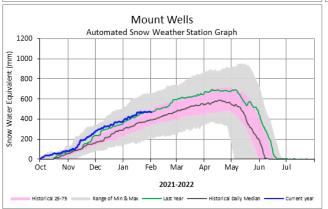
Nechako Reservoir Operation Observed Inflow and Discharge 2021-2022

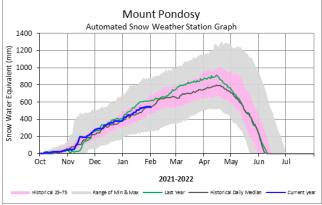


Current Snowpack



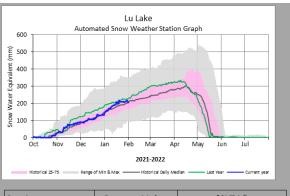






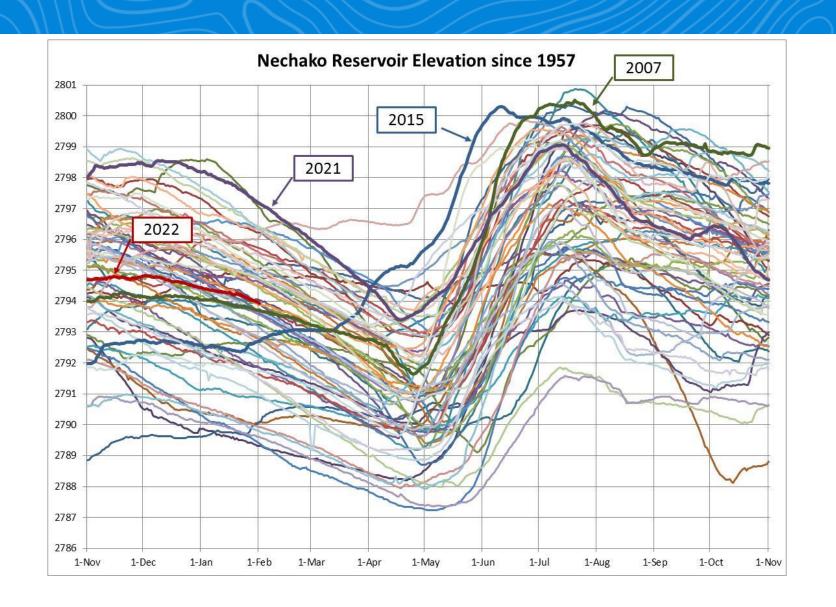
Station	Current Value (mm)	LTA* (mm)	%LTA*	Percentile Rank*
Tahtsa Lake	784	909	86%	28%
Mount Pondosy 537		573	94%	48%
Mount Wells	467	406	115%	72%

* (1992-2021)

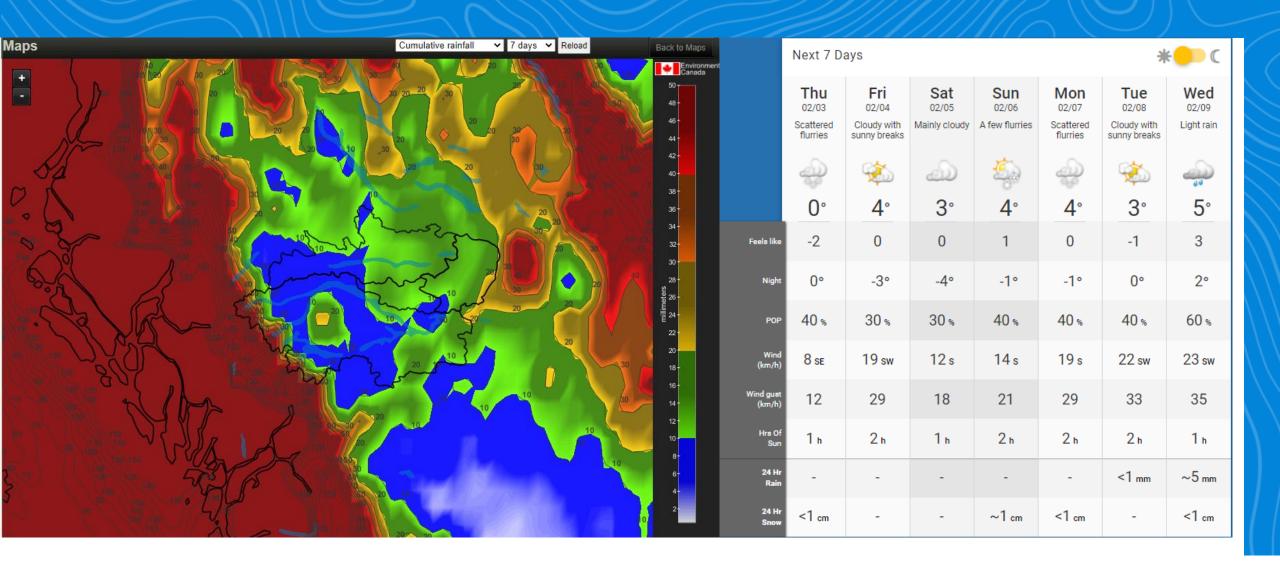


Station	Current Value	%LTA*
Lu Lake	205	100%
* (1997-2021)		

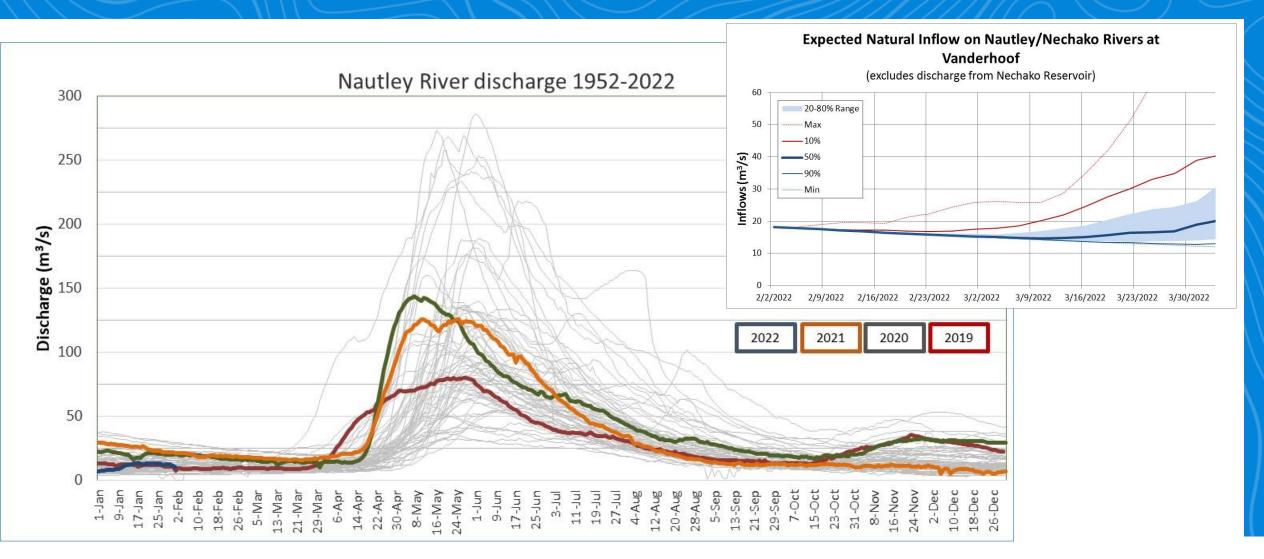
Historical Reservoir Elevation



7 Day Weather Forecast

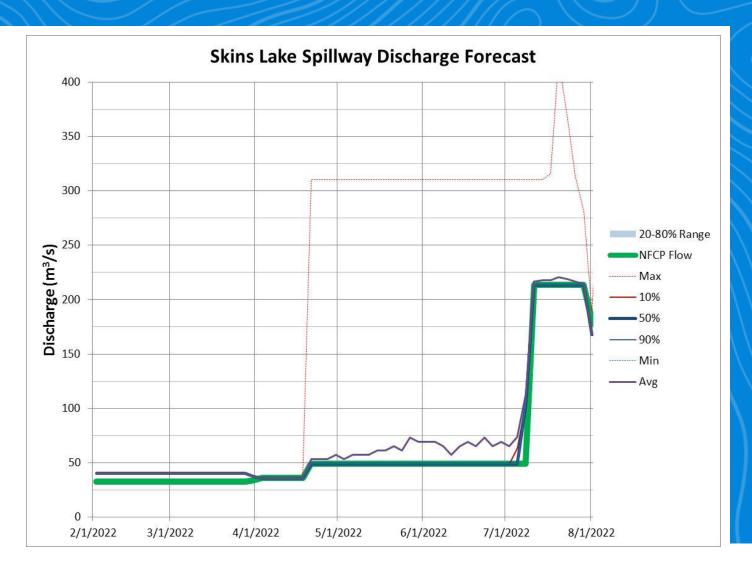


Nautley River Flows, Forecast

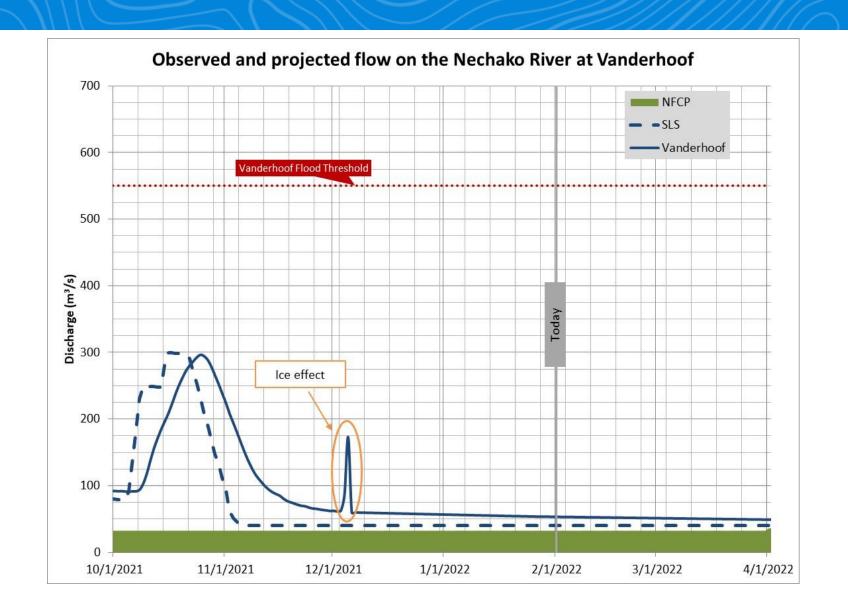


Spillway Management – Looking to Winter and Spring

- SLS discharge currently 40 m³/s, and is most likely to be maintained at 40 m³/s throughout winter;
- Working through the Smelter load and re-start scenarios
- Ice Jam risk and winter flow protocols collecting data as per NHC recommendation
- Spring Freshet flood risk; Murray Cheslatta System and Vanderhoof

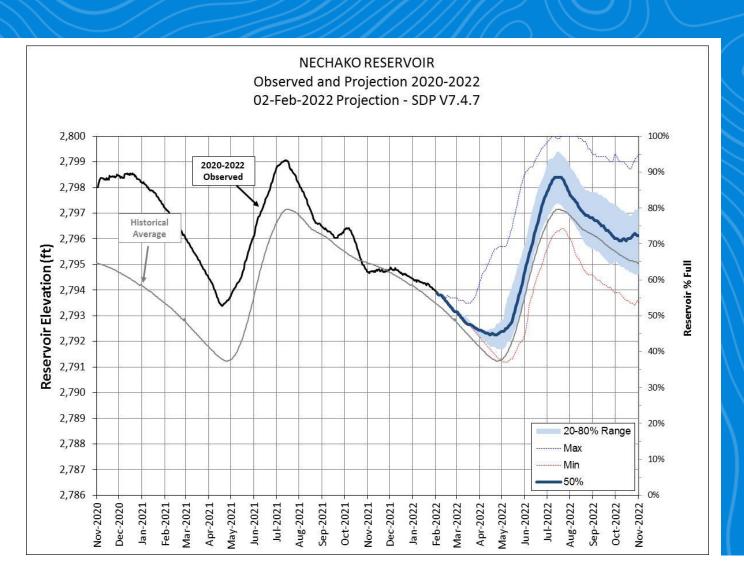


Forecast – Vanderhoof Flows

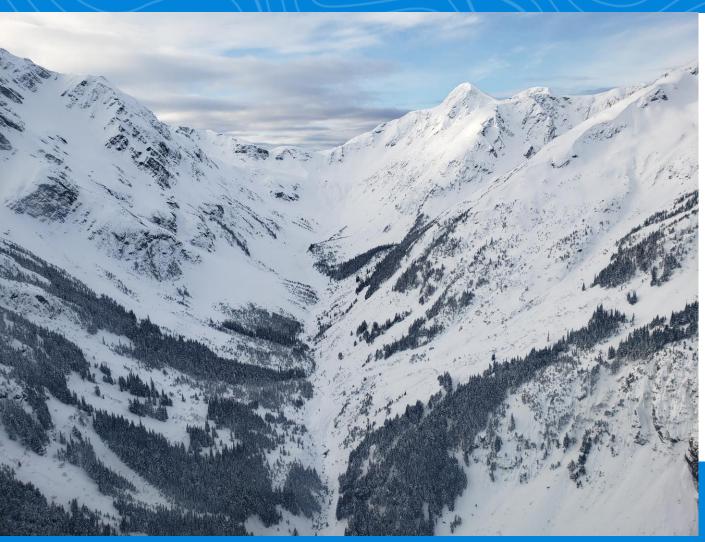


Reservoir Level Projection

 Inflow projections are used to estimate reservoir levels over time considering current hydrology and historically observed additional snow and rain.



Next Steps – Actions

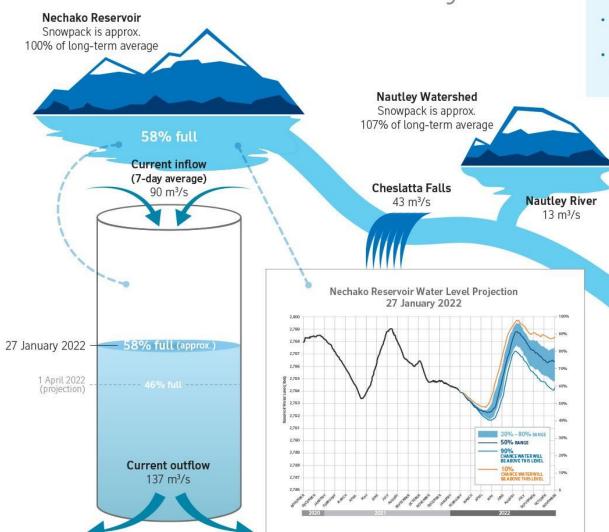


- 1. Model update and communications.
- 2. Ice Surveys Ongoing
- 3. Confirm next meeting date 16 February

Presentations are available on the Get Involved Nechako website under 'Our Operations'. Recordings can be requested up to 30 days following the meeting.

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Current Conditions - 27 January 2022



Nechako Reservoir operations update

- Skins Lake Spillway discharge is likely to be maintained at approximately 40 m³/sec for the duration of the winter in accordance to the Nechako Fisheries Conservation Program guidelines.
- For real time information and updates visit getinvolvednechako.ca
- To subscribe to weekly updates email us at nechakoreservoirupdates@riotinto.com



Stuart River 51 m³/s

> Prince George 124 m³/s

Fraser River

Vanderhoof

54 m³/s

