

An aerial photograph of a rugged mountain landscape. In the foreground, a suspension bridge with a metal railing spans a deep, rocky gorge. Several people are walking across the bridge. To the left of the bridge, a small, simple wooden building sits on a rocky outcrop. Further back, a tall metal power line tower stands on a rocky slope. The background features steep, rocky mountainsides with patches of snow and a large, winding snowfield on the right side. The overall scene is one of a high-altitude, mountainous environment.

**RioTinto**

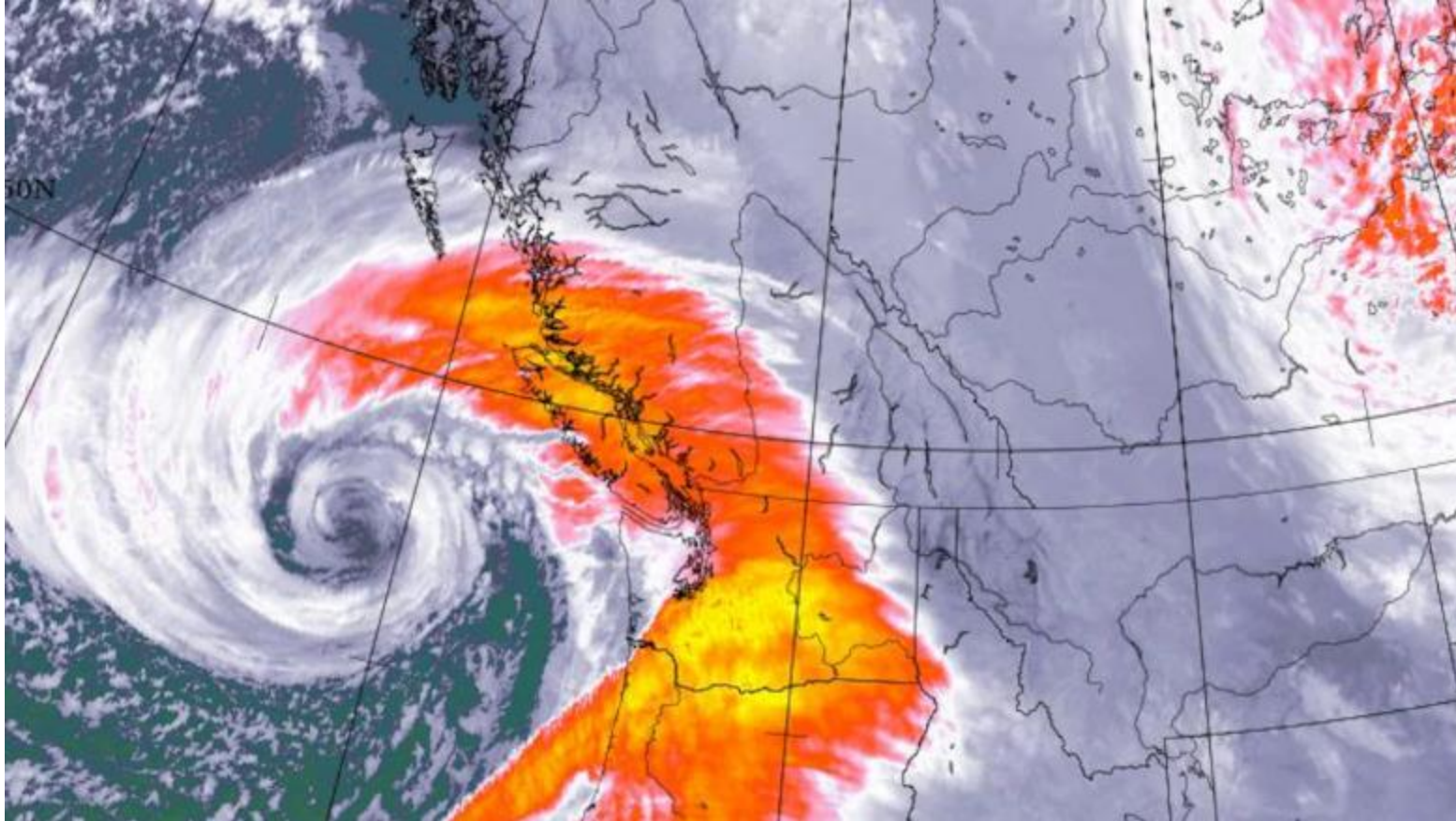
# **Nechako Reservoir / River Information Sharing – Community Leaders**

20<sup>th</sup> November 2024

Prepared by Kenjy Demeester



# Recent event



# Precipitation and Inflows - Last 12 months

**Nechako Watershed Inflows and Precipitation**

Period	Observed Inflows			Observed Precipitation		
(2023-2024)	(cms)	(%LTA 1957-2023)	(%LTA 1994-2023)	(mm)	(%LTA 1957-2023)*	(%LTA 1994-2023)
November, 2023	65	41%	40%	79	65%	64%
December, 2023	75	66%	70%	97	87%	102%
January, 2024	75	76%	77%	71	72%	72%
February, 2024	79	94%	96%	34	49%	49%
March, 2024	61	84%	79%	40	71%	59%
April, 2024	102	71%	58%	32	74%	65%
May, 2024	263	59%	56%	45	107%	105%
June, 2024	329	65%	67%	71	125%	137%
July, 2024	202	63%	67%	16	29%	28%
August, 2024	84	50%	56%	33	58%	63%
September, 2024	119	95%	100%	102	140%	136%
October, 2024	221	144%	149%	102	96%	96%
Winter (Nov-Mar)	71	67%	67%	321	70%	71%
Spring & Summer (Apr-Aug)	196	62%	62%	197	78%	78%
Fall (Sept-Oct) (to date)	170	122%	127%	204	114%	112%
Year 2023-2024 (to date)	139	70%	70%	722	81%	82%

\* Watershed precipitation data before the 1990s was estimated from a more limited number of weather stations in operation.

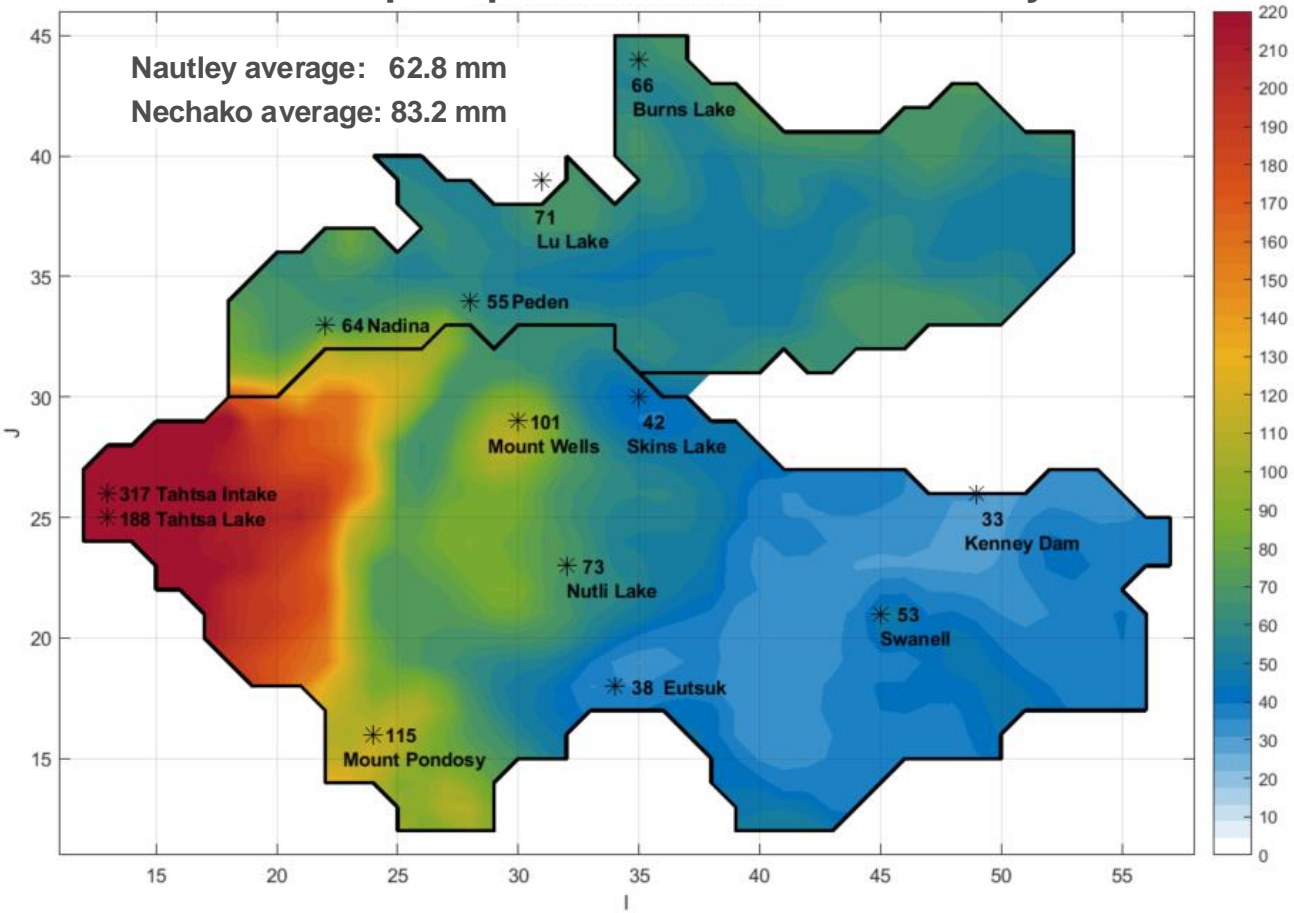
**Nechako Watershed Inflows and Precipitation**

Period	Observed Inflows			Observed Precipitation		
(2024-2025)	(cms)	(%LTA 1957-2024)	(%LTA 1995-2024)	(mm)	(%LTA 1957-2024)*	(%LTA 1995-2024)
November, 2024	192	114%	112%	62	80%	76%
Winter (Nov-Mar)	192	114%	112%	62	80%	76%
Year 2024-2025 (to date)	192	114%	112%	62	80%	76%

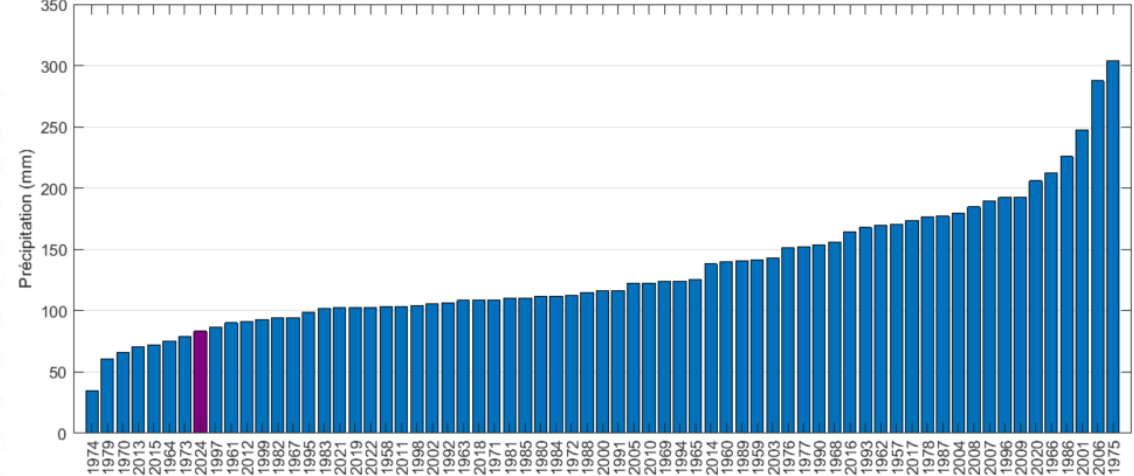
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# Weather - Last 30 days

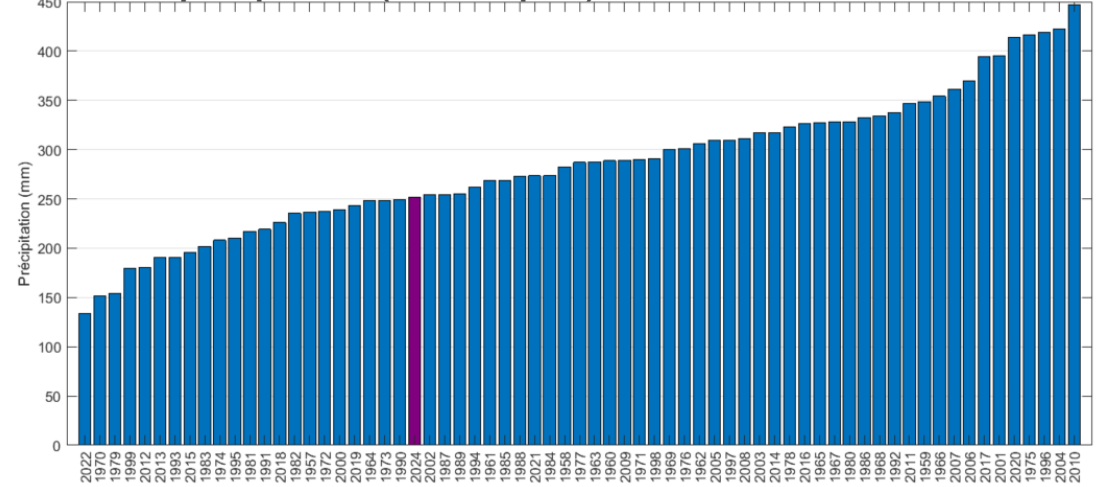
Total precipitation over the last 30 days



Last 30 days precipitation event vs historical record rank value



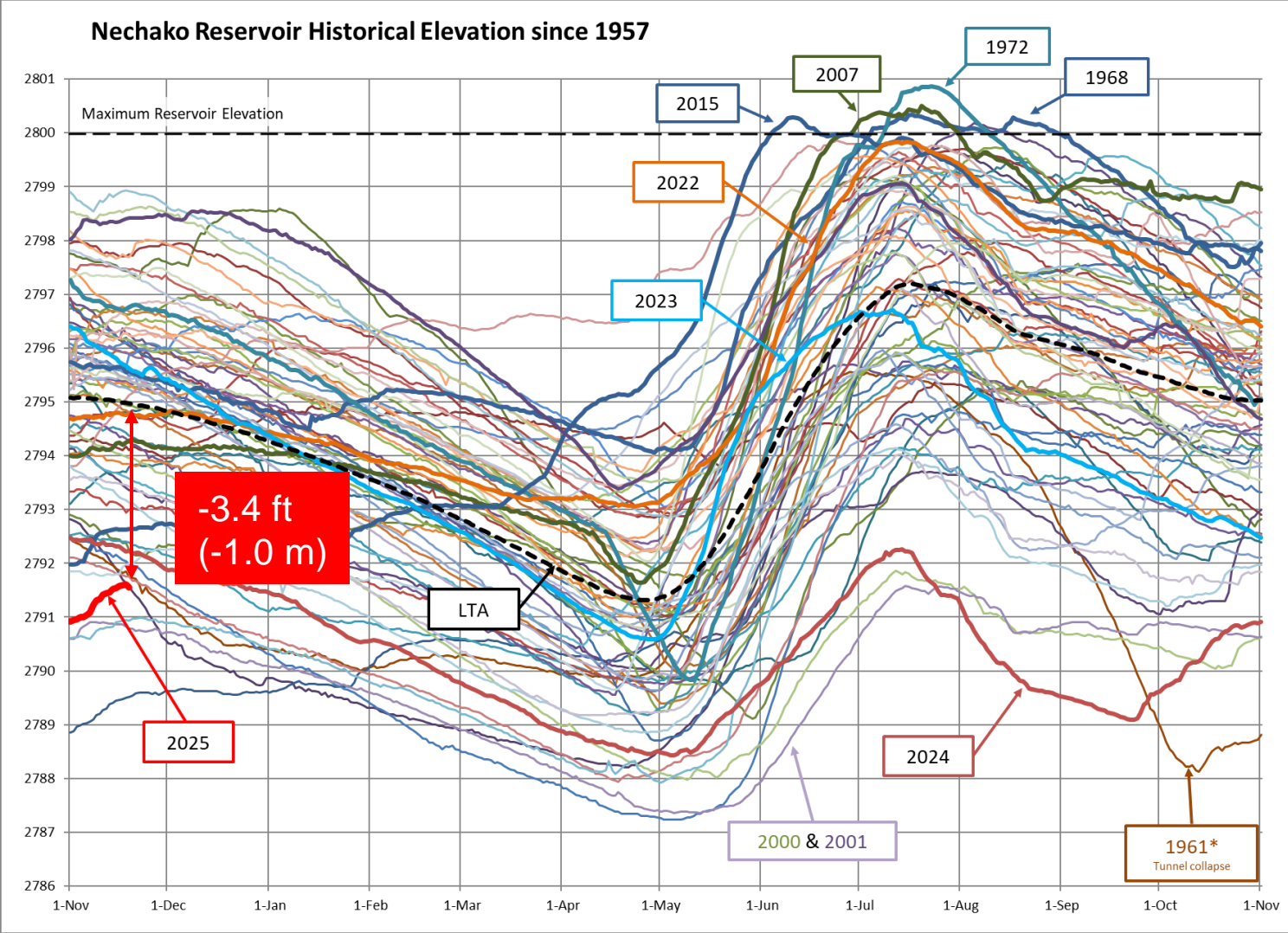
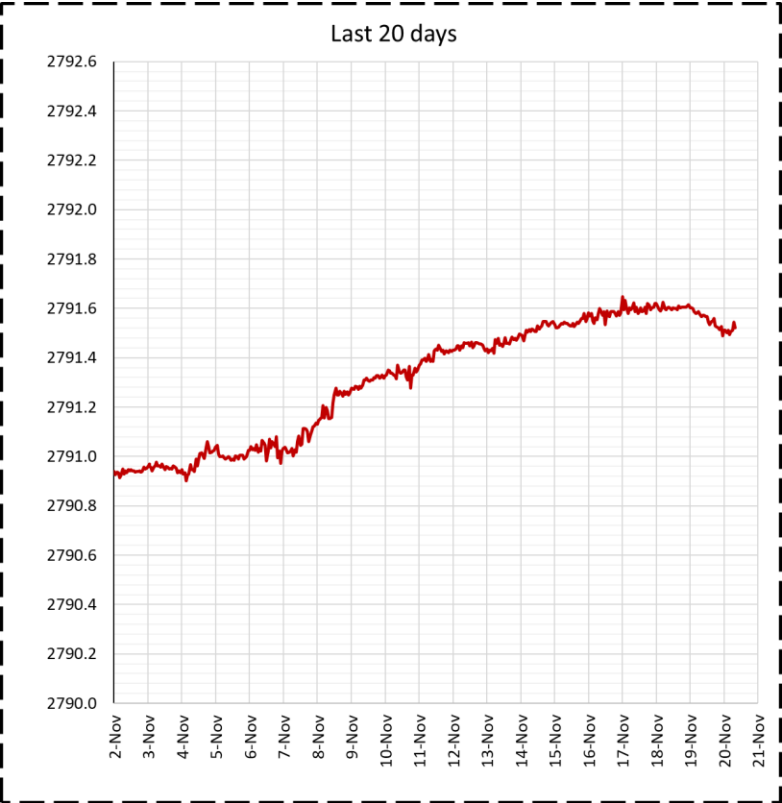
Total precipitation (since Sep 1<sup>st</sup>) vs historical record rank value



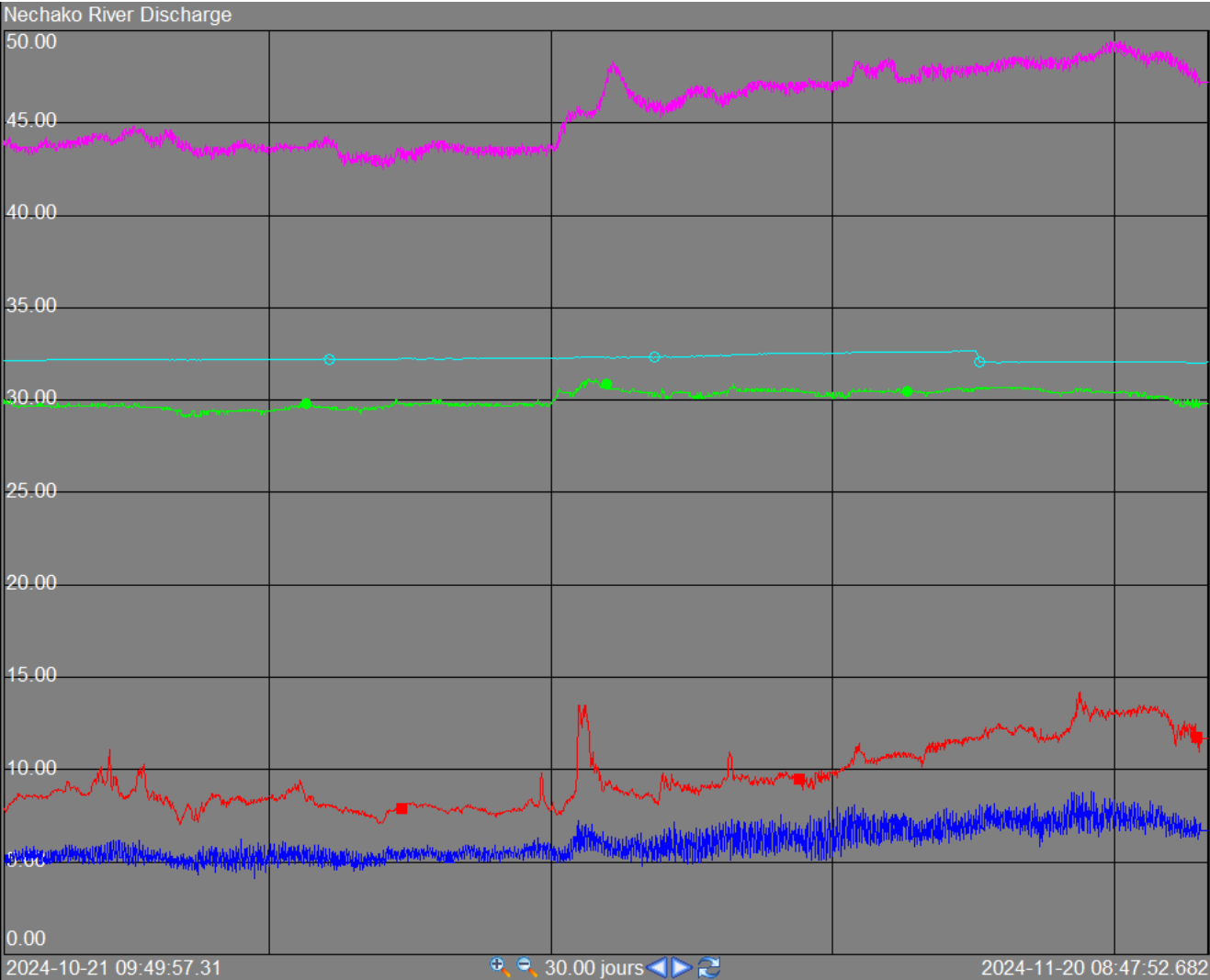


# Reservoir Elevation

*Current reservoir level*  
**2791.52 ft (Approx)**



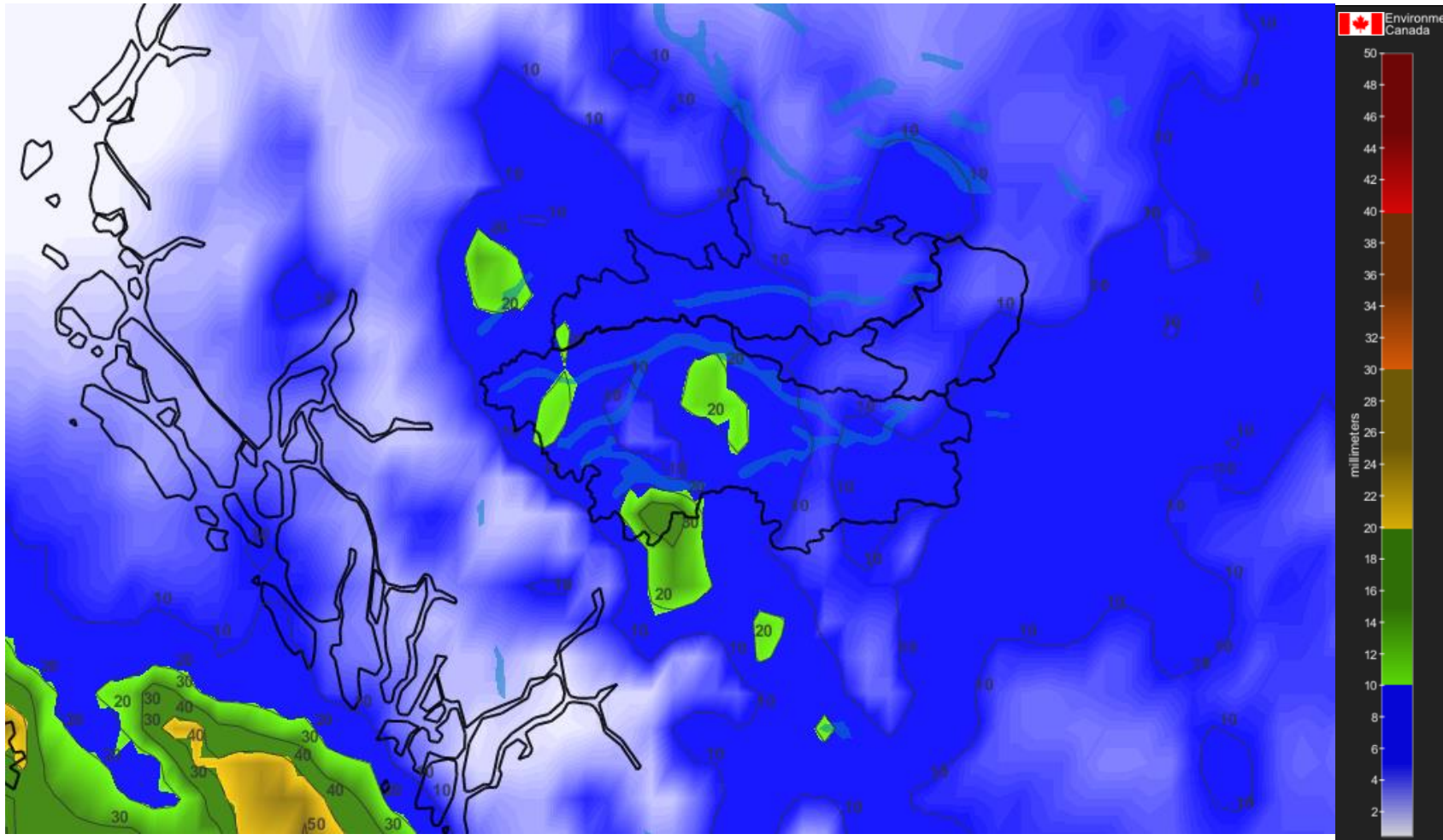
# Flows - Last 30 days



Current values (m³/s)	
Vanderhoof	47
Skins Lake	32
Cheslatta Falls	30
Nautley	12
Stellako	7

# Precipitation forecast

Forecast (next 10 days)

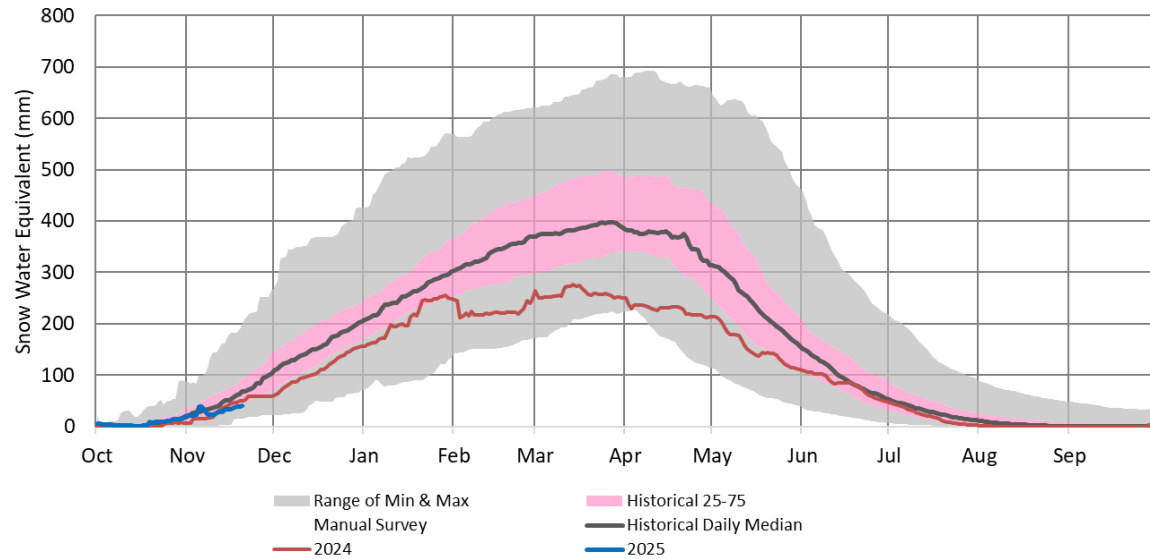


Nechako Reservoir watershed area-average = 0-10 mm



# Current snowpack

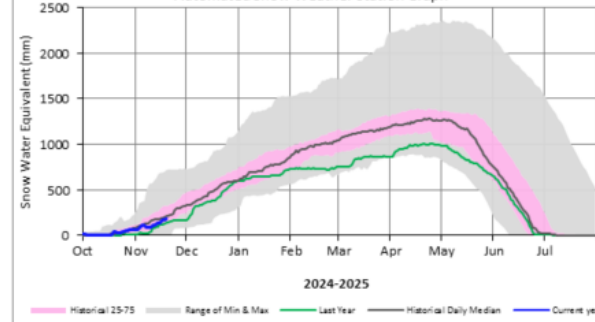
Nechako Reservoir Snowpack



52 mm (54% LTA; 52<sup>th</sup> / 66)

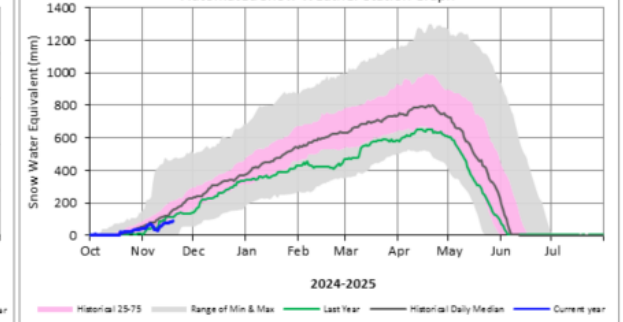
Tahtsa Lake

Automated Snow Weather Station Graph



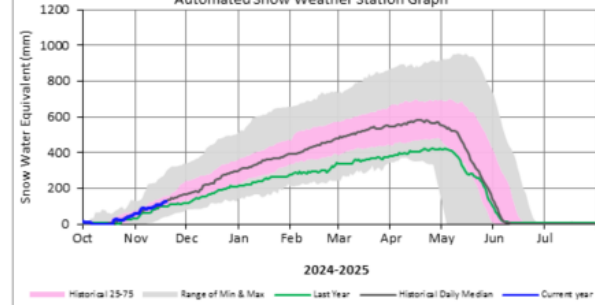
Mount Pondosy

Automated Snow Weather Station Graph



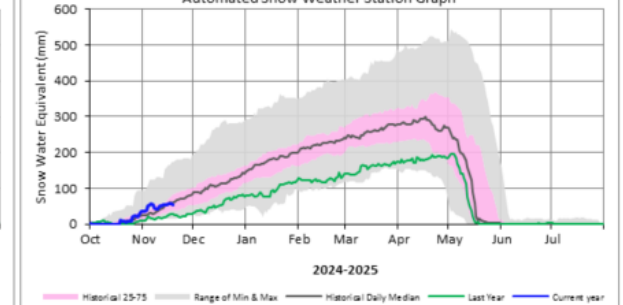
Mount Wells

Automated Snow Weather Station Graph



Lu Lake

Automated Snow Weather Station Graph



Station	Current Value (mm)	LTA* (mm)	%LTA*	Percentile Rank*
Tahtsa Lake	180	244	74%	41%
Mount Pondosy	87	163	53%	11%
Mount Wells	126	139	91%	44%

\* (1992-2024)

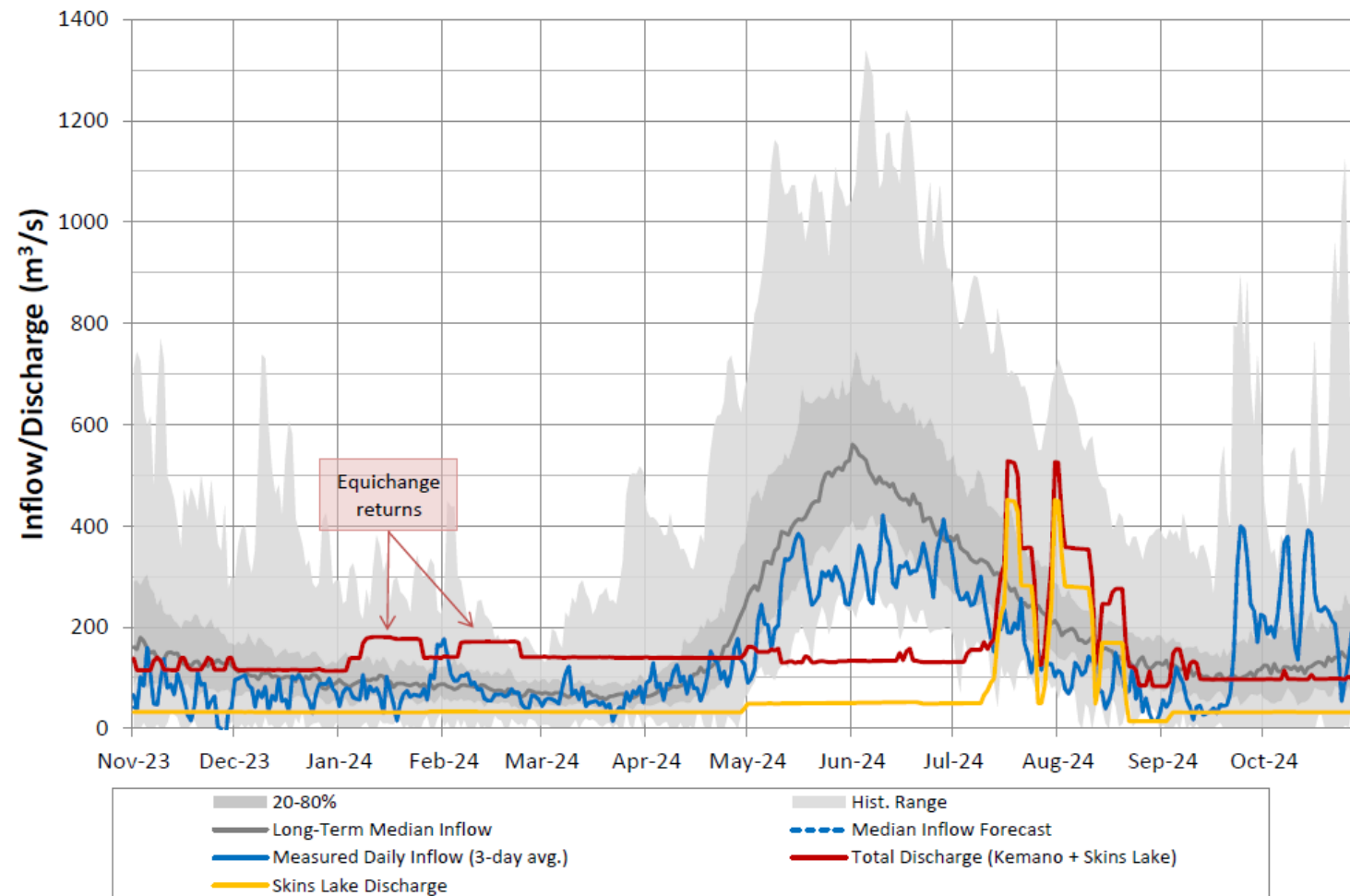
Station	Current Value	%LTA*
Lu Lake	54	82%

\* (1997-2024)



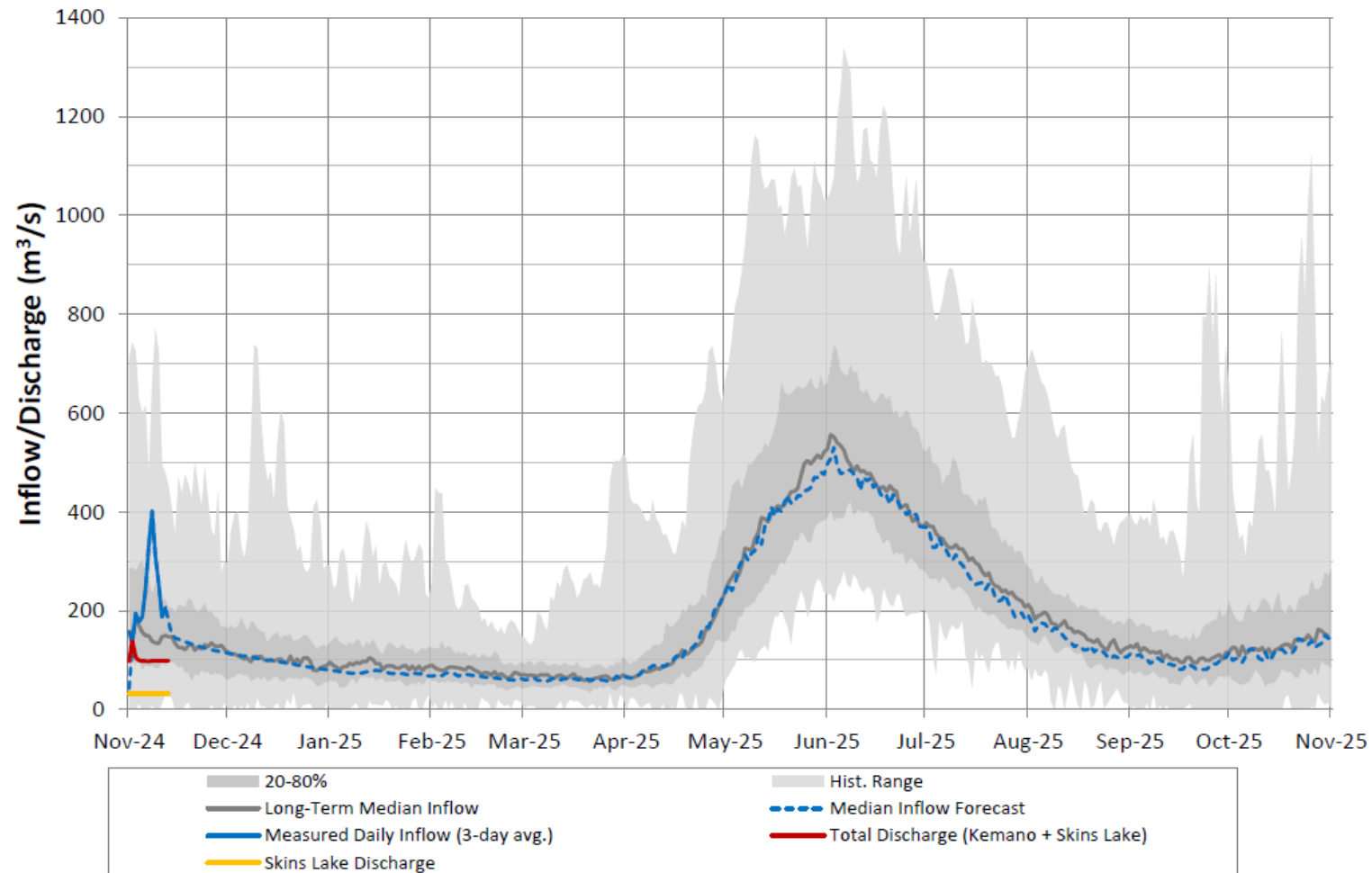
# Observed Inflows & Discharge vs Historical

**Nechako Reservoir Operation**  
**Observed Inflow and Discharge 2023-2024**



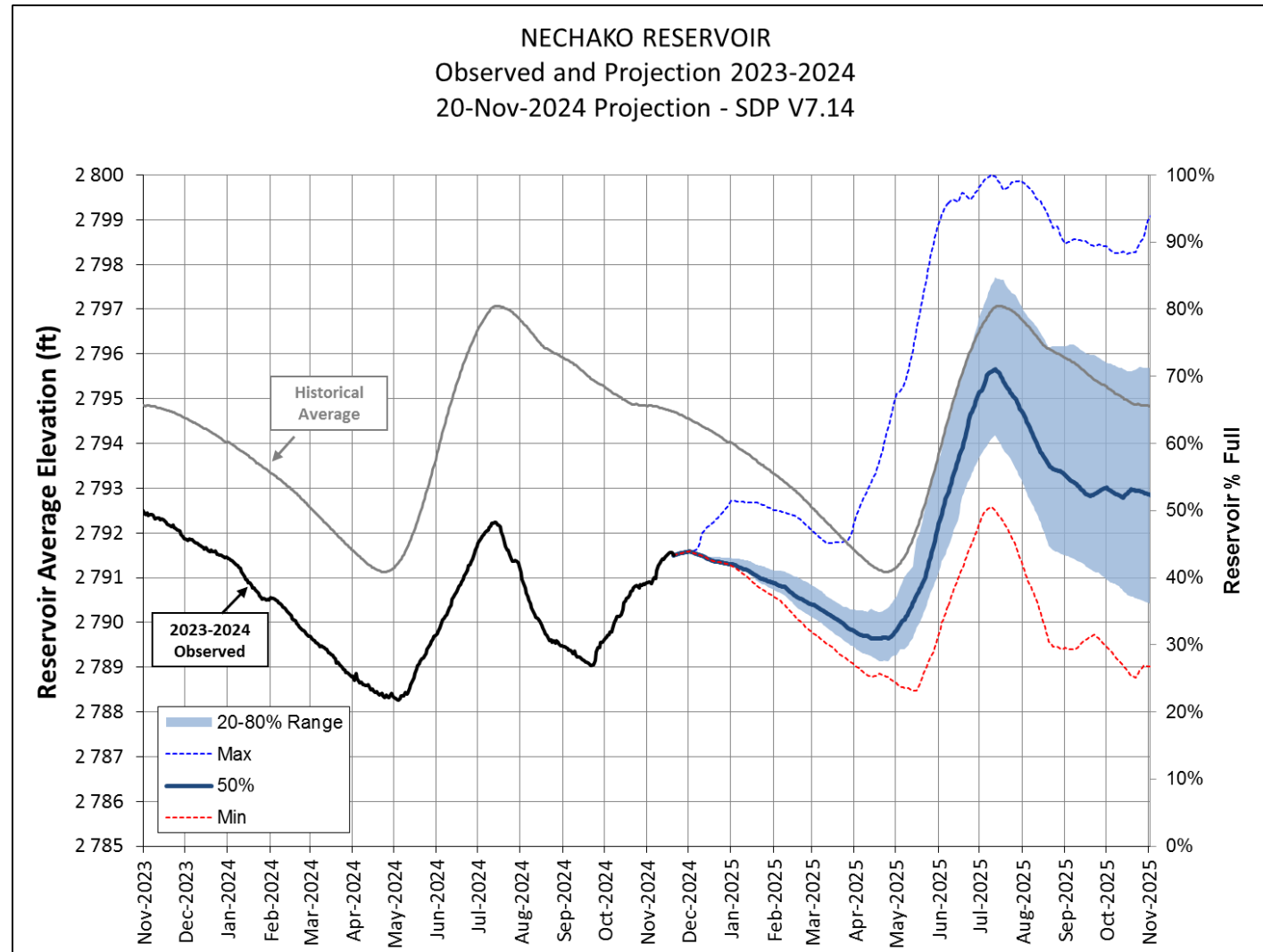
# Observed Inflows & Discharge vs Historical

**Nechako Reservoir Operation**  
**Observed Inflow and Discharge 2024-2025**



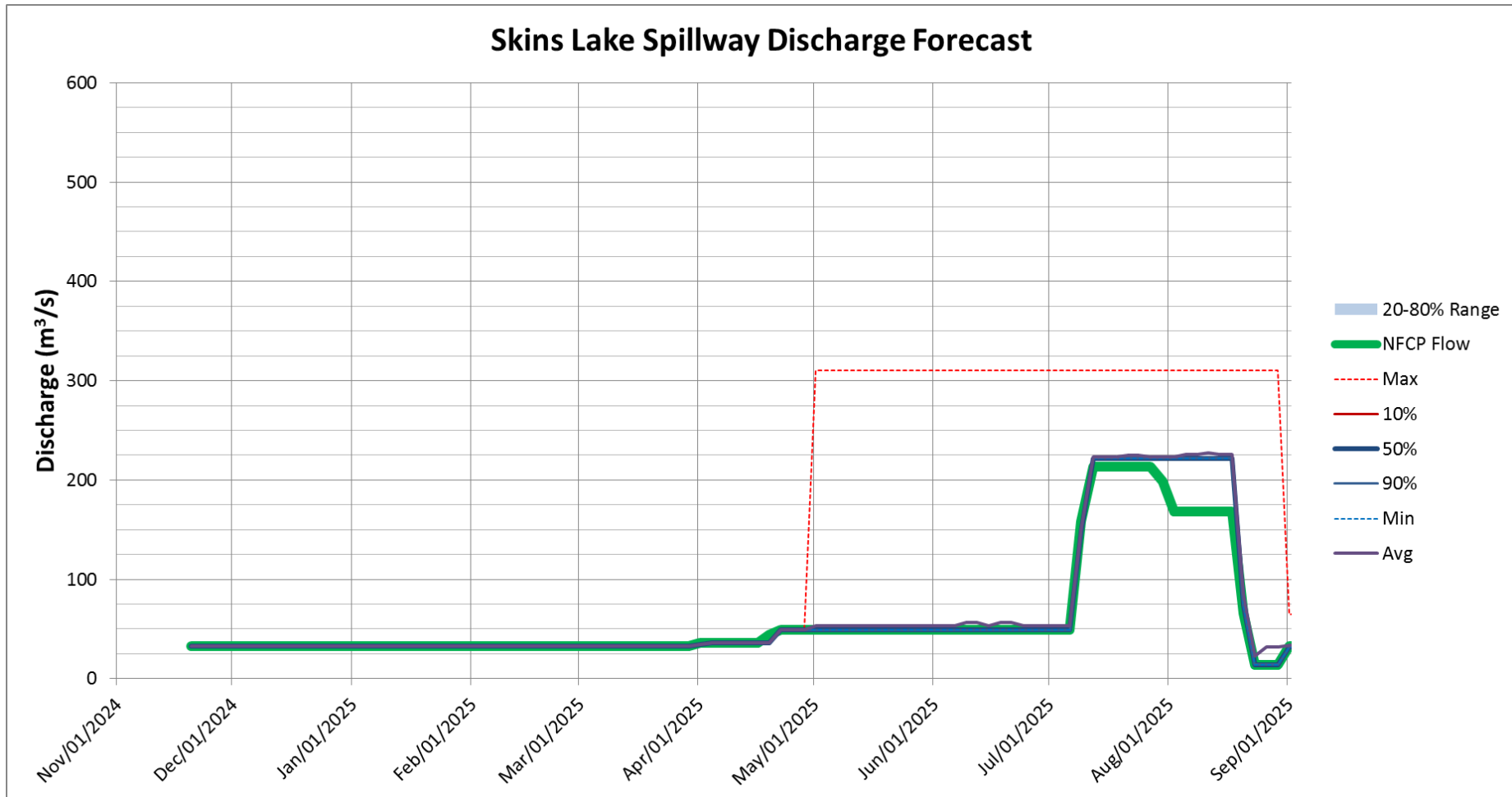


# Reservoir Level Projection



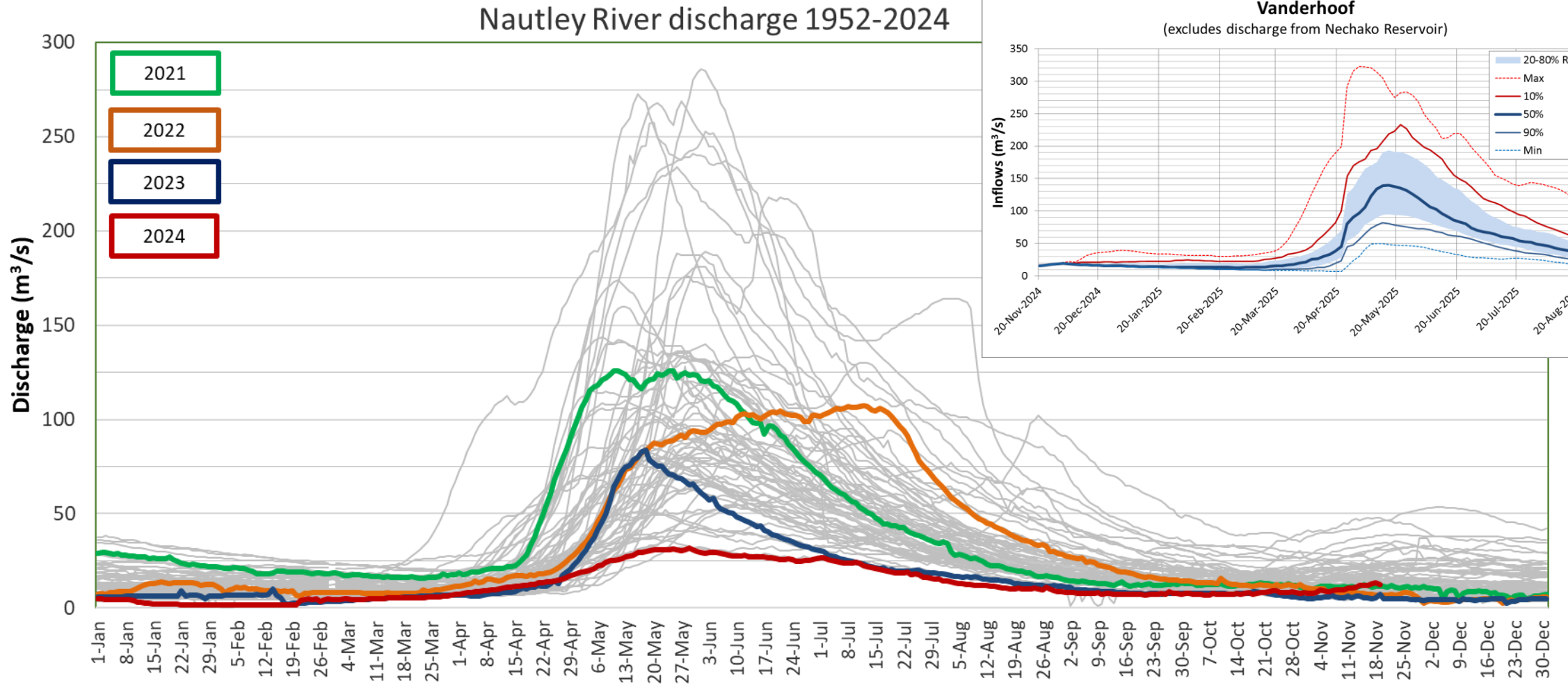
# Skins Lake Spillway Release - Forecast

- Current release = **32 m<sup>3</sup>/s**

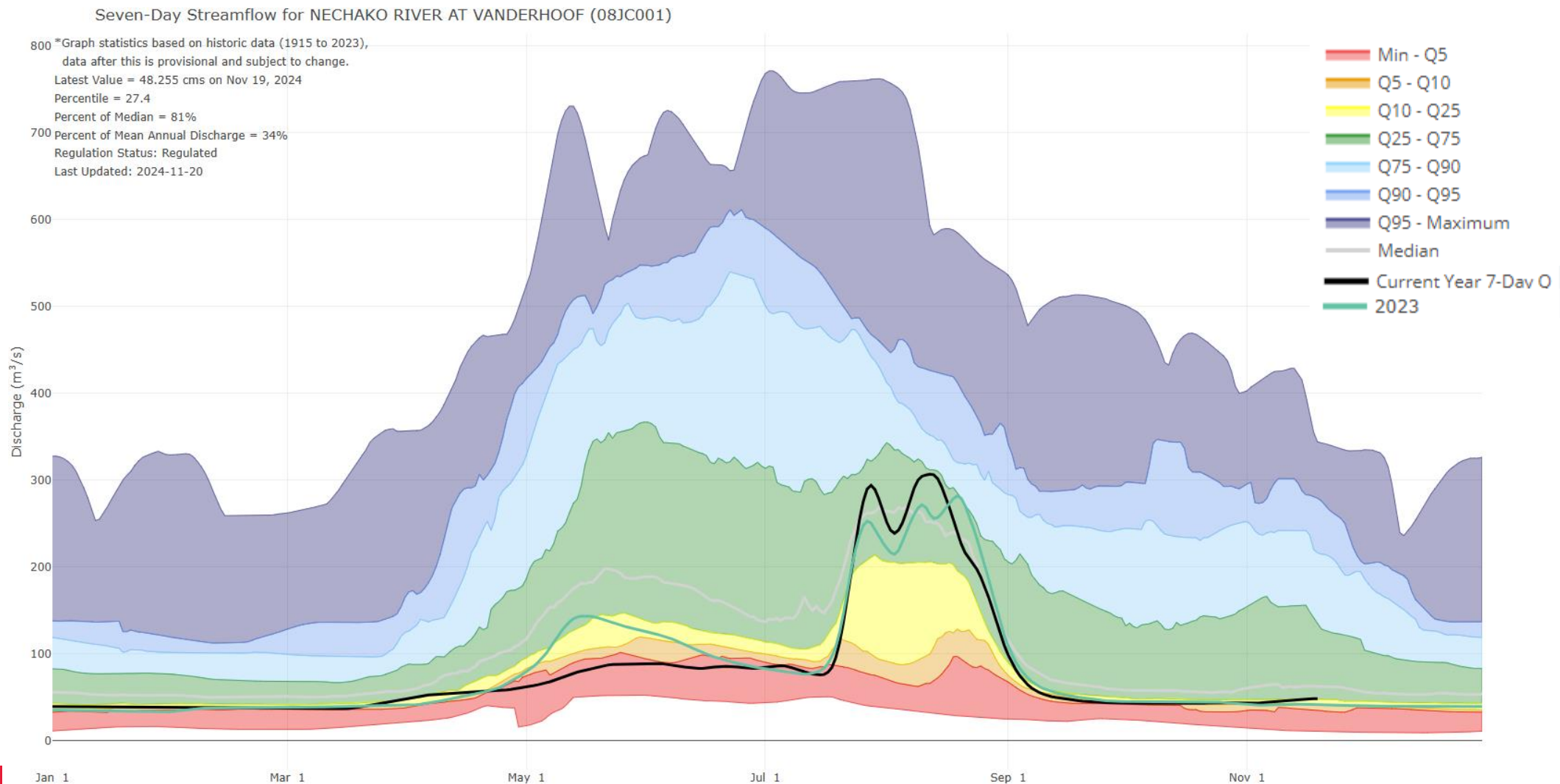




# Nautley River Flows, Forecast

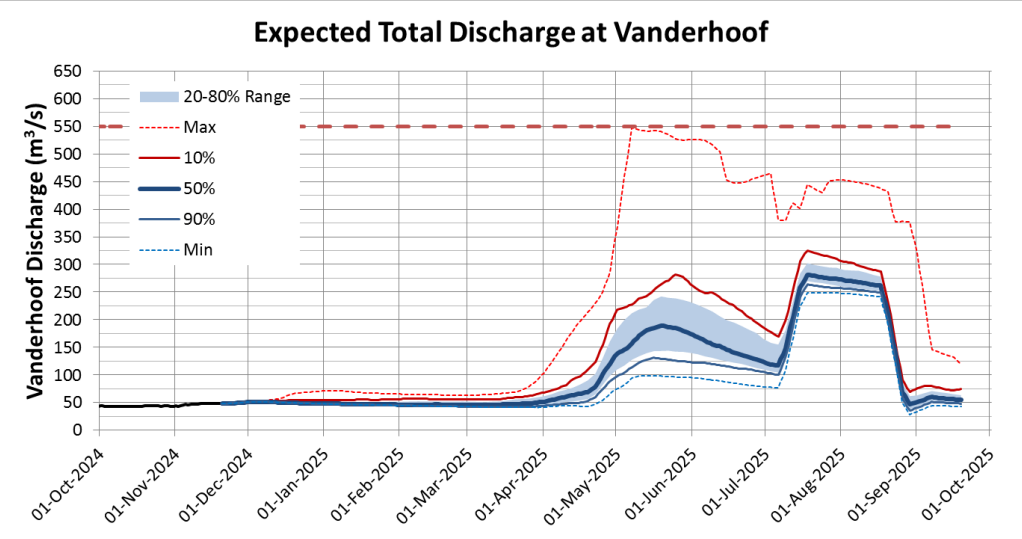


# Vanderhoof

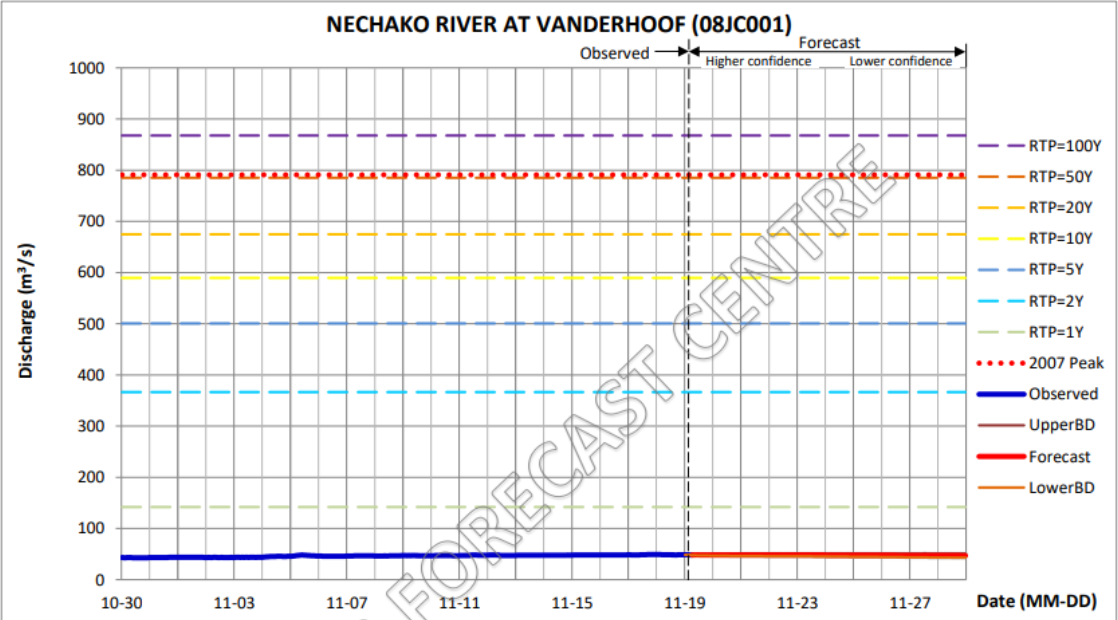




# Forecast – Vanderhoof



Note: Set "Check for newer version of stored pages" to "Every time I visit the webpage" and refresh browser frequently to view latest forecast.



Reading at 07 AM ( $\text{m}^3/\text{s}$ ) Tue 2024-11-19	Forecast Daily Discharge ( $\text{m}^3/\text{s}$ ): AVERAGE									
	UPPER BOUND					LOWER BOUND				
	Tue 2024-11-19	Wed 2024-11-20	Thu 2024-11-21	Fri 2024-11-22	Sat 2024-11-23	Sun 2024-11-24	Mon 2024-11-25	Tue 2024-11-26	Wed 2024-11-27	Thu 2024-11-28
48.5	49.7 48.5 47.3	50.4 48.5 46.6	50.7 48.4 46.1	50.7 48.3 45.8	50.7 48.1 45.6	50.8 48.0 45.2	50.8 47.8 44.8	50.9 47.6 44.2	51.0 47.4 43.6	51.0 47.1 43.2

Color Scheme for Return Periods:

RTP=1Y	RTP=2Y	RTP=5Y	RTP=10Y	RTP=20Y	RTP=50Y	RTP=100Y	2007 Peak
142.0	366.5	500.7	589.6	674.8	785.2	867.8	791.0
							( $\text{m}^3/\text{s}$ )

Remark: This station is labeled as "regulated", and the forecast is the sum of natural flows and extended regulated flow from 08JA017.

# Updates - Next Steps – Actions



1. Confirm next meeting date & time  
– **Propose December 18<sup>th</sup>**
2. Work with BC Hydro to manage the drought and energy balance for the winter

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



# Feedback & Reflections

