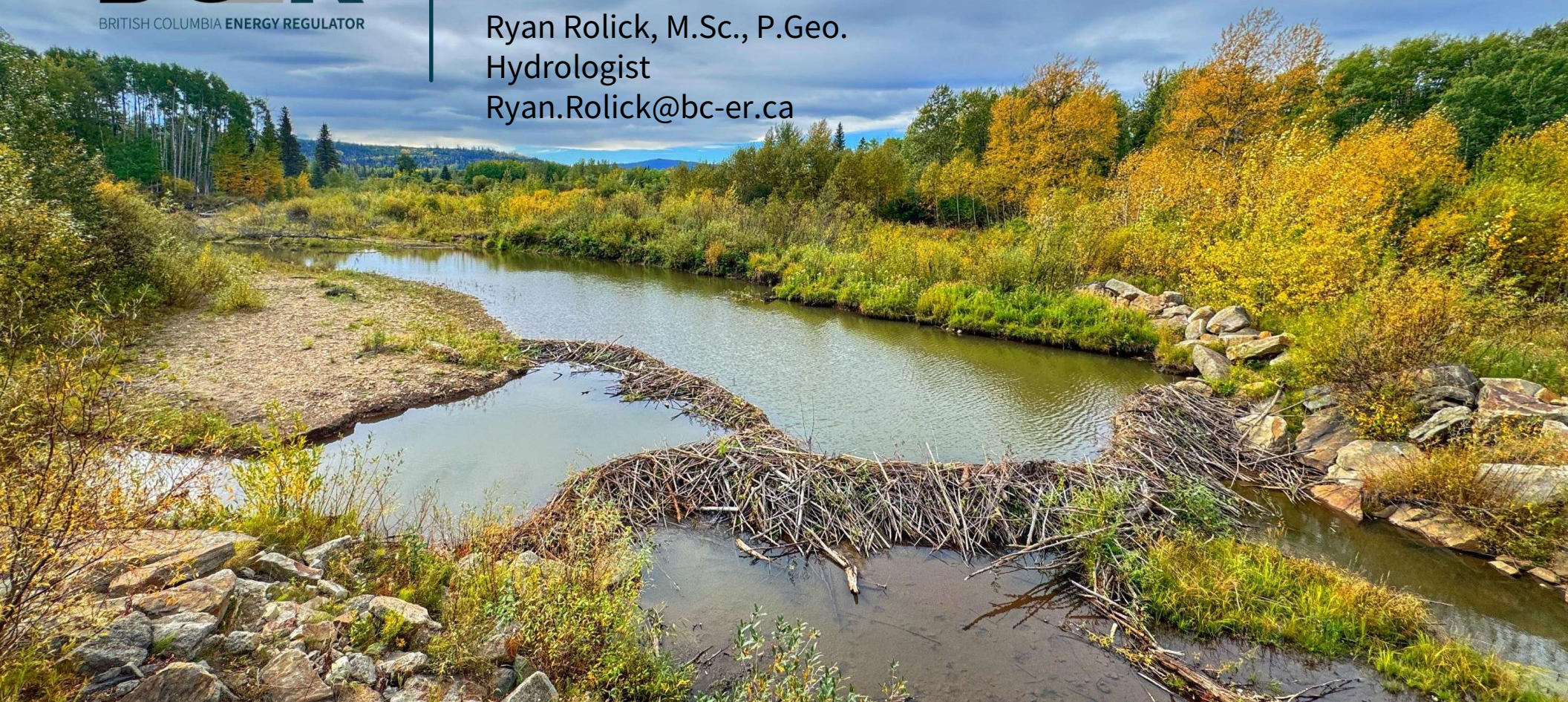




Hydrology, Water Decisions, and Water Projects in Northeast BC

Ryan Rolick, M.Sc., P.Geo.
Hydrologist
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Who I am

Ryan Rolick

- Hydrologist

- The study of the location, movement and properties of surface water
- Provide technical support for water management decisions
 - January 2023
 - Watershed hydrology
 - Hydrogeology
 - GW/SW and stream temperature

- Previously

- Environmental Management Specialist
 - December 2018
 - Field and technical lead for Regulator Hydrometric Program
 - Manage water withdrawal reporting
 - Provide technical support for water management decisions



Water Management Overview

- Regulate water use for oil and gas purposes
 - Water Licences (s.9 WSA = 5-20 yrs)
 - Short-Term Use Approvals (s.10 WSA= <2 yrs)
 - Application of the Provincial Environmental Flow Needs (EFN) Policy
- How we sustainably manage water for all needs?
 - Fish, environment, human consumption, First Nations, agriculture, and industry
- How we transform data/information into decision making?



Water Sustainability Act (WSA) Section 9 & Section 10

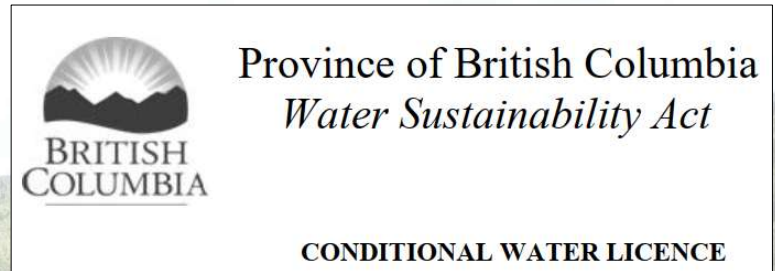
Short-Term Use Approvals (STUA, s.10)

- Up to 24 months
- Shorter time period
- Typically smaller volume water requests
- Prior to water licence
- Drought condition restrictions
 - EFN thresholds
 - Pump rate
- ~294 active S. 10's

Water Licence (s.9)

- 2 – 20-year terms
- Long term development plans and guarantee
- Higher level of scrutiny and detail required
- Drought conditions
 - EFN thresholds
 - Pump rates
- ~119 water licences

SHORT TERM WATER USE	
Short Term Water Use Number - 0006126	
Approval Period – From: February 2, 2023, To: February 1, 2025	
ACTIVITY DETAILS	
Point of Diversion No.: 001	Water Source Name: Pine River
Type: Stream/River	
Purpose: Oil and Gas & Storage	
Location (UTM): Zone 10, Northing 6204944.454, Easting 609800.131	
Maximum Withdrawal Rate (m/s): 0.116 m3/s	
Daily Withdrawal Volume (m³/day): 10,000	
Total Withdrawal Volume (m³): 180,000	
Point of Diversion No.: 002	Water Source Name: 2-21 Dugout
Type: Water Source Dugout	
Purpose: Oil and Gas & Storage	
Location (UTM): Zone 10, Northing 6201288.328, Easting 611193.92	
Total Withdrawal Volume (m³): 15,500	
Point of Diversion No.: 003	Water Source Name: 1-25 Dugout
Type: Water Source Dugout	
Purpose: Oil and Gas & Storage	
Location (UTM): Zone 10, Northing 6202748.242, Easting 616512.525	
Total Withdrawal Volume (m³): 19,500	



Water Allocation Principles

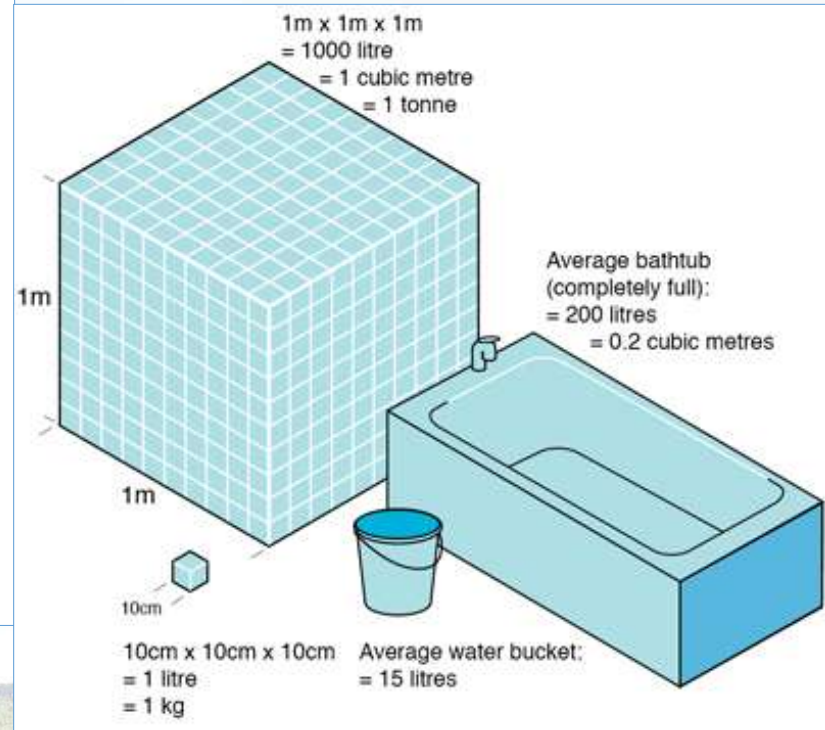
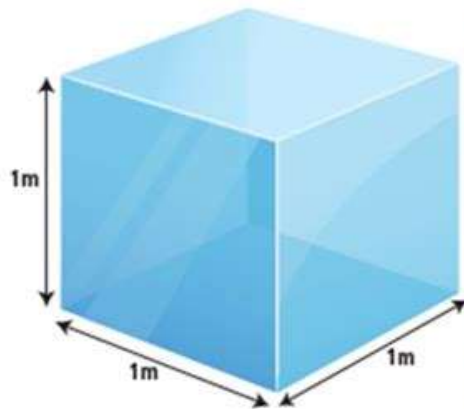
- Protect environmental flows for fish and wildlife
- Protect present and future water needs for all users and First Nations
- Understand and manage for natural variability and future change
- Recognize and respond to unusual low flow conditions (e.g. drought)
- Be fully transparent with information and decisions
- Collaborate and innovate



Water Units

How big is this room?

Water use is measured by the cubic metre (1,000 litres).



Water Units

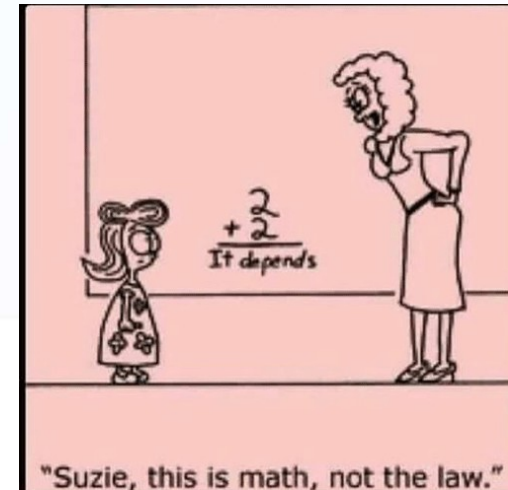


Decision-Making Questions

1. How water much is required for the environment and other users?
2. Is there any water available for allocation?

IT DEPENDS

- Natural variability
- Location (e.g. mountains, foothills or plains)
- Environmental sensitivity
- Other users
- Data/Information available

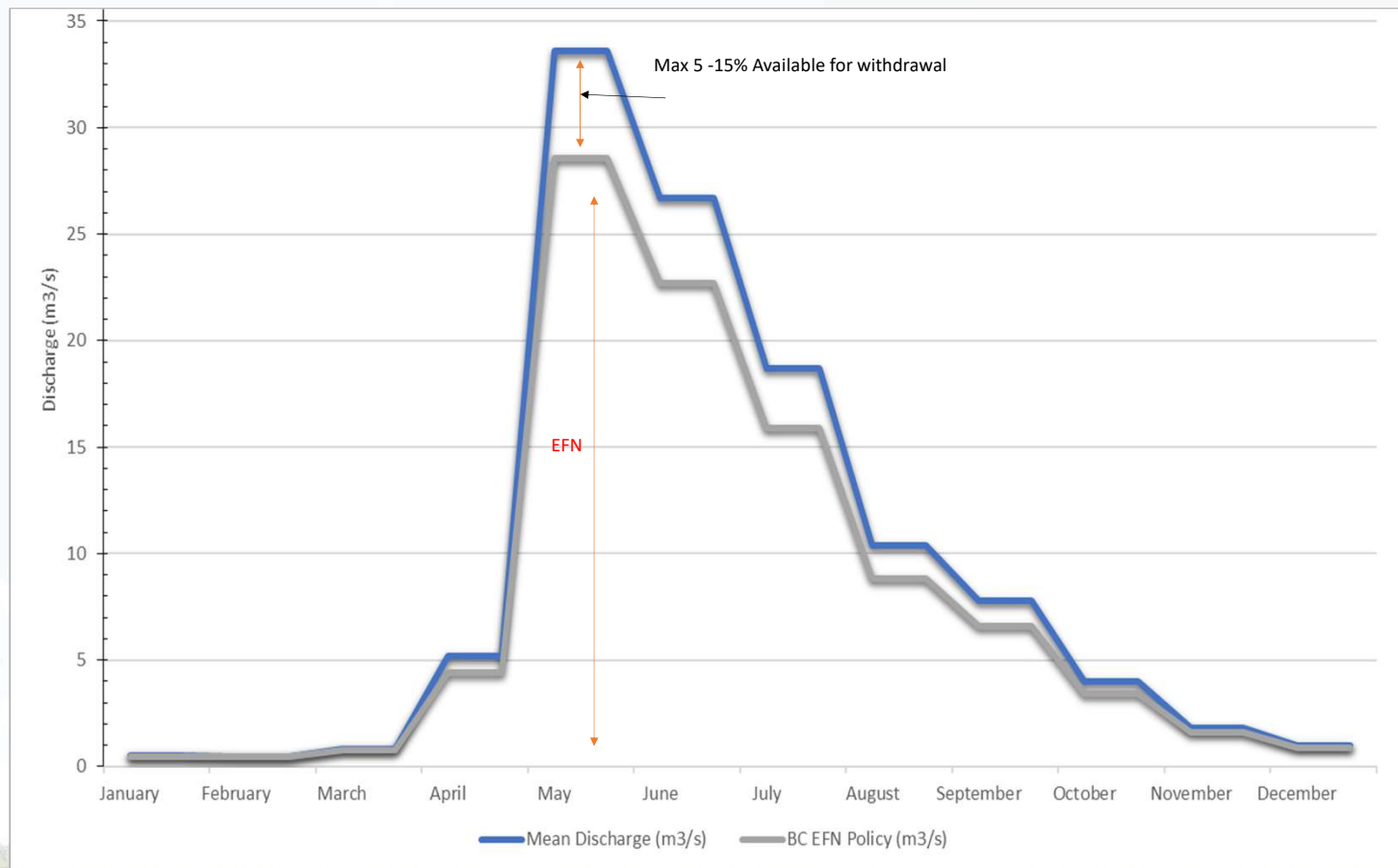


Available Water – EFN Policy

- **Environmental Flow Needs (EFN)** – volume and timing of water flow required for proper functioning of the aquatic ecosystem.
- **Provincial Environmental Flow Needs (EFN) Policy**
 - All water users' withdrawals added together total 5 -20% of the water flow
 - BCER - Maintain minimum of at least 85% of natural flow (aim for 5-10% max)



Available Water – EFN Policy



Example

Rolick Inc. Water Licence Application

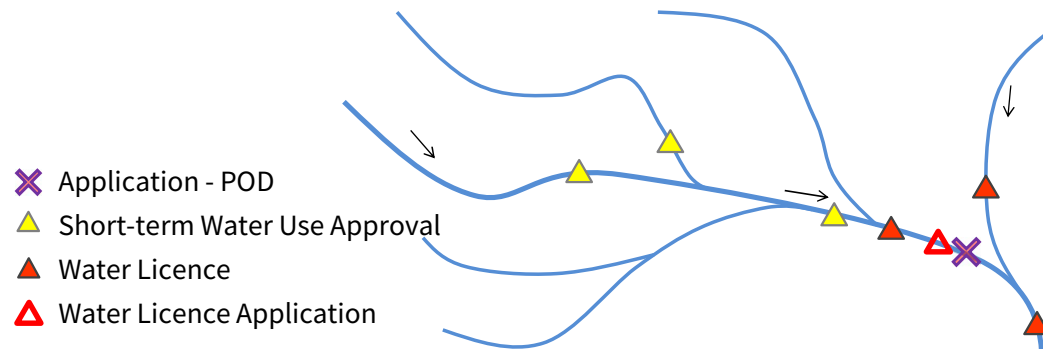


Rolick Inc. Water Licence Application

- Point of diversion (e.g. stream name)
- Volume of water applied for (m3) and pumping rate?
 - Annual, season
 - Storage
- Other users upstream/downstream of POD
 - % of weekly/monthly average flows allocated
- Hydrologic analysis
 - Weekly/Monthly flows
 - Variability (high/low flows)
- Environmental Flow Needs assessment

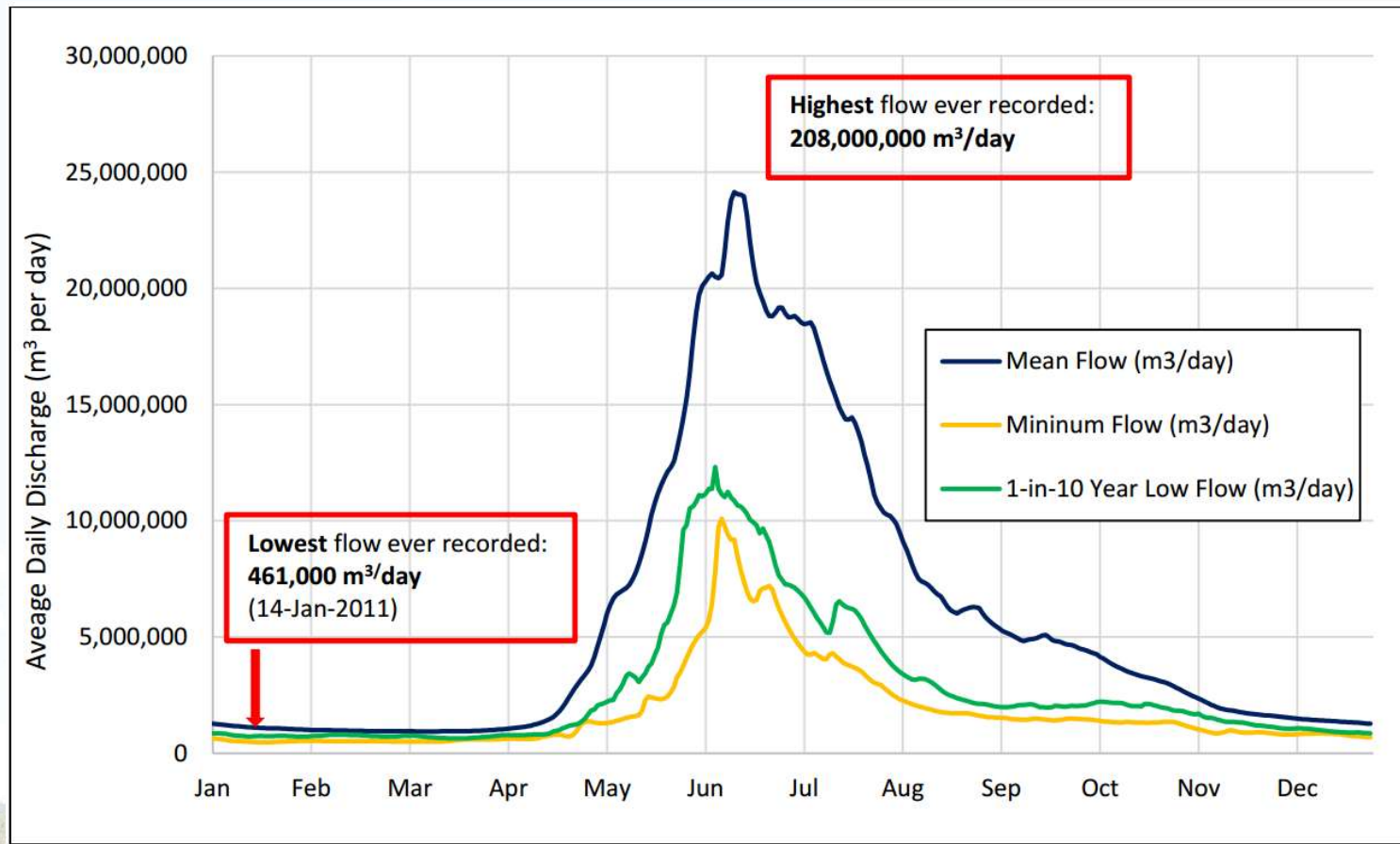


Rolick Inc. Water Licence Application



Annual withdraw volume = 450,000 m³
Storage = 450,000 m³
Withdrawal season = April 1 – August 31
Max pumping rate = 0.1 m³/s
Current diversions at POD = 0.1 m³/s (April 1 – Aug 31)
Total diversions at POD = 0.2 m³/s

Rolick Inc. Hydrologic Review



Rolick Inc. Water Licence Request

Month	Avg. flow (m ³ /s)	Total diversions (m ³ /s)	% of avg. licenced	EFN Thesholds (m ³ /s)	Potential Allocations (m ³ /s)	% of EFN
April	15	0.2	1.3%	12.75	2.25	8.9%
May	20	0.2	1.0%	17	3	6.7%
June	30	0.2	0.7%	25.5	4.5	4.4%
July	18	0.2	1.1%	15.3	2.7	7.4%
August	2	0.2	10%	1.7	0.3	66.7%

- Assumes all water withdrawals/diversions occur all the time
- EFN thresholds based on low flows
 - Varies for each system
 - No pumping threshold
- **Based on low flow conditions**
- Spring freshet withdrawals and storage

Water Management Overview

Water Licence (S.9) – Bissette Creek 2017 – 2027

- e) The maximum quantity of water that may be held in storage is 450,000(m³/year. The maximum quantity of water which may be diverted and used for Oil & Gas purposes is 450,000m³/year. The license holder will employ a variable pumping rate to ensure that the rate of diversion does not exceed 0.15m³/s or 10% of discharge as measured per the requirements of Condition (j).
- f) The period of the year during which water may be diverted into storage is April 1 to July 31, and the stored water may be used for Oil & Gas purposes the whole year.
- k) The authorization holder is required to implement the following Environmental Flow Needs requirements:
Diversion must not occur when the measured discharge is equal to or less than the following Environmental Flow Needs thresholds.
- April 16 – April 29 – 0.15 m³/s
 - April 30 – May 6 – 0.13 m³/s
 - May 7 – May 13 – 0.11 m³/s
 - Any other date not otherwise specified - 0.07 m³/s.
- Water Diversions must never result in discharge immediately upstream of the POD to fall below these Environmental Flow Needs thresholds.

Monitoring Conditions

- Depending on the application details (source, rate, total volume, timing, etc.)
 - Consider including monitoring conditions
- Many different methods to satisfy this
 - Prefer tying to Water Survey of Canada (WSC) Station for ease and enforceability

Date of Issuance: July 12, 2023

Effective Date: July 12, 2023

Application Submission Date: December 13, 2022

Application Determination Number: 100117241

Short Term Water Use No.: 0006455	Point of Diversion No.: 001
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Conditions

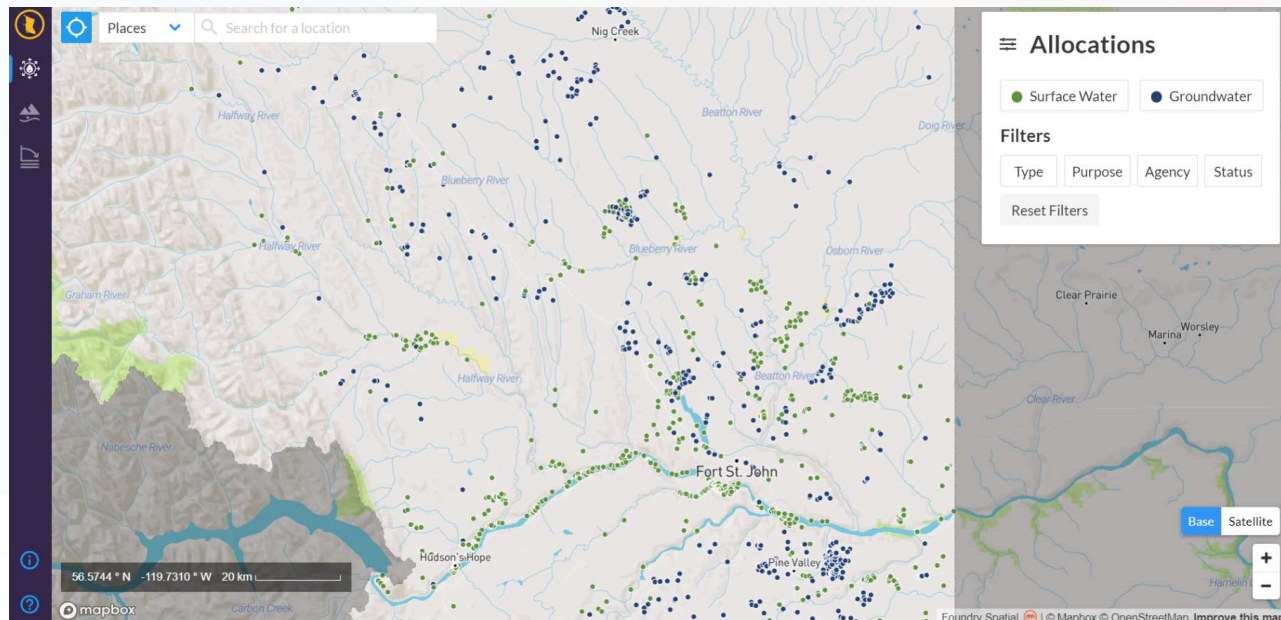
Environmental

2. Prior to any water withdrawals the flow of the Beaton River must be monitored at the Water Survey of Canada Beaton River Station near Ft. St. John (07FC001). Water withdrawals are prohibited when the flow of the Beaton River as measured at the Water Survey of Canada Beaton River Station near Ft. St. John (07FC001) is at or below the following thresholds.
 - April: 13.0 m³/s
 - May: 57.5 m³/s
 - June: 42.2 m³/s
 - July: 24.0 m³/s
 - August: 9.3 m³/s
 - September: 6.5 m³/s
 - October: 5.4 m³/s

On any day when water is being withdrawn the license holder shall keep records of daily water withdrawals in units of cubic metres (m³) and the discharge of the Beaton River as measured at the Water Survey of Canada Beaton River Station near Ft. St. John (07FC001) in units of cubic metres per second (m³/s). These records must be made available to the Regulator upon request.

Decision-Making Tools/Resources: Northeast Water Tool (NEWT)

- The Commission/Regulator developed the Northeast Water Tool (NEWT).
 - Expanded to other regions since then
- Hydrology based on “modelling” of Water Survey of Canada flow gauges.
- Incorporates environmental flow protection.
- The tool presents “cumulative effects” of water authorized - S9 & s10.



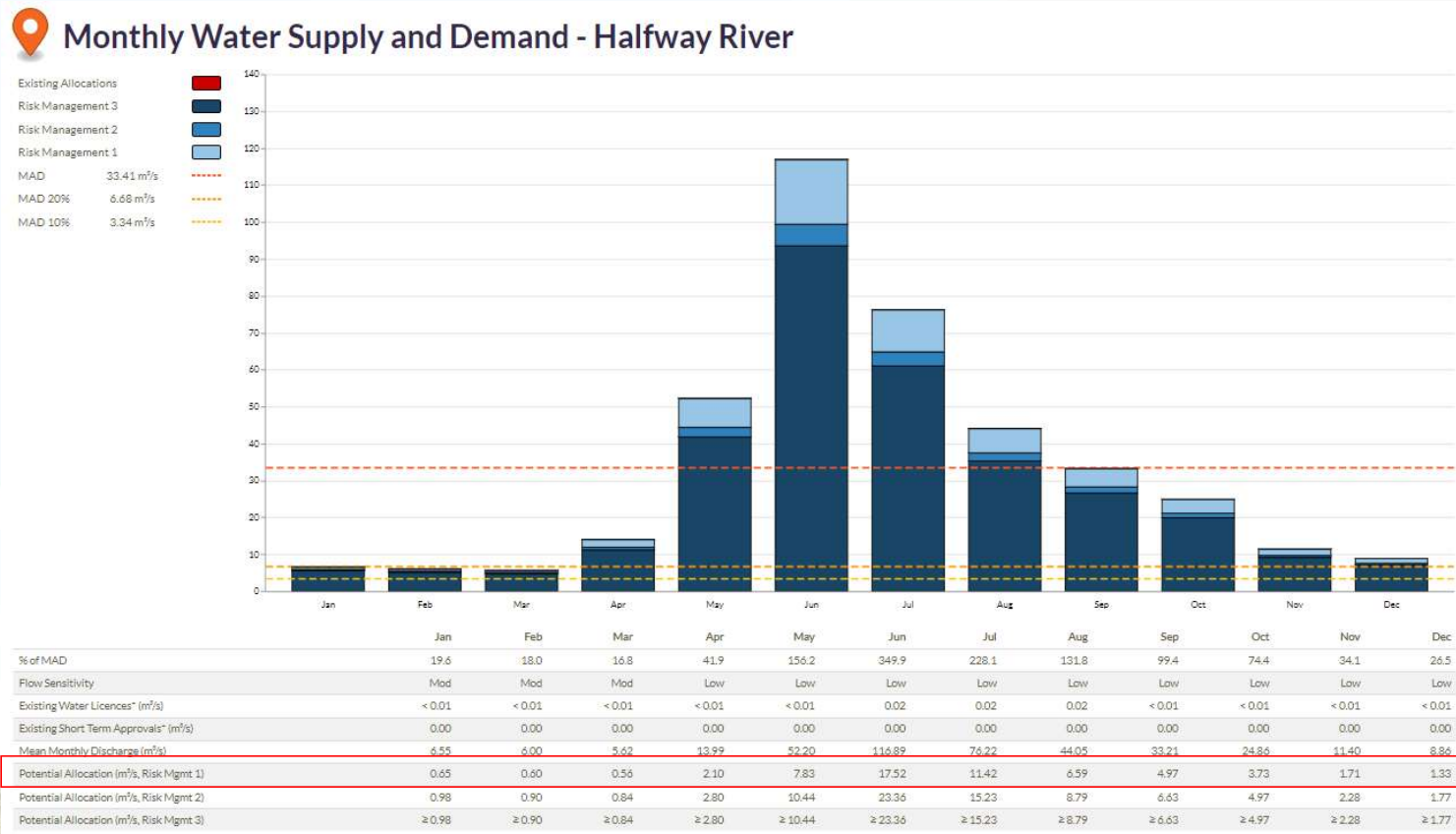
Decision-Making Tools/Resources

- Northeast Water Tool (NEWT)
 - BC Water Tool
- Water Survey of Canada Hydrometric Data
 - Water Portal
- Independent Data (streamflow information)
- Hydrologic Modelling
- Climate change – *Pacific Climate Impacts Consortium*
- Water Licence Query Tool



Northeast Water Tool (NEWT)

Provides a high-level overview of potential water availability



Drought considerations

Northeast Water Tool (NEWT)

Tabular Data - Hydrologic Variability

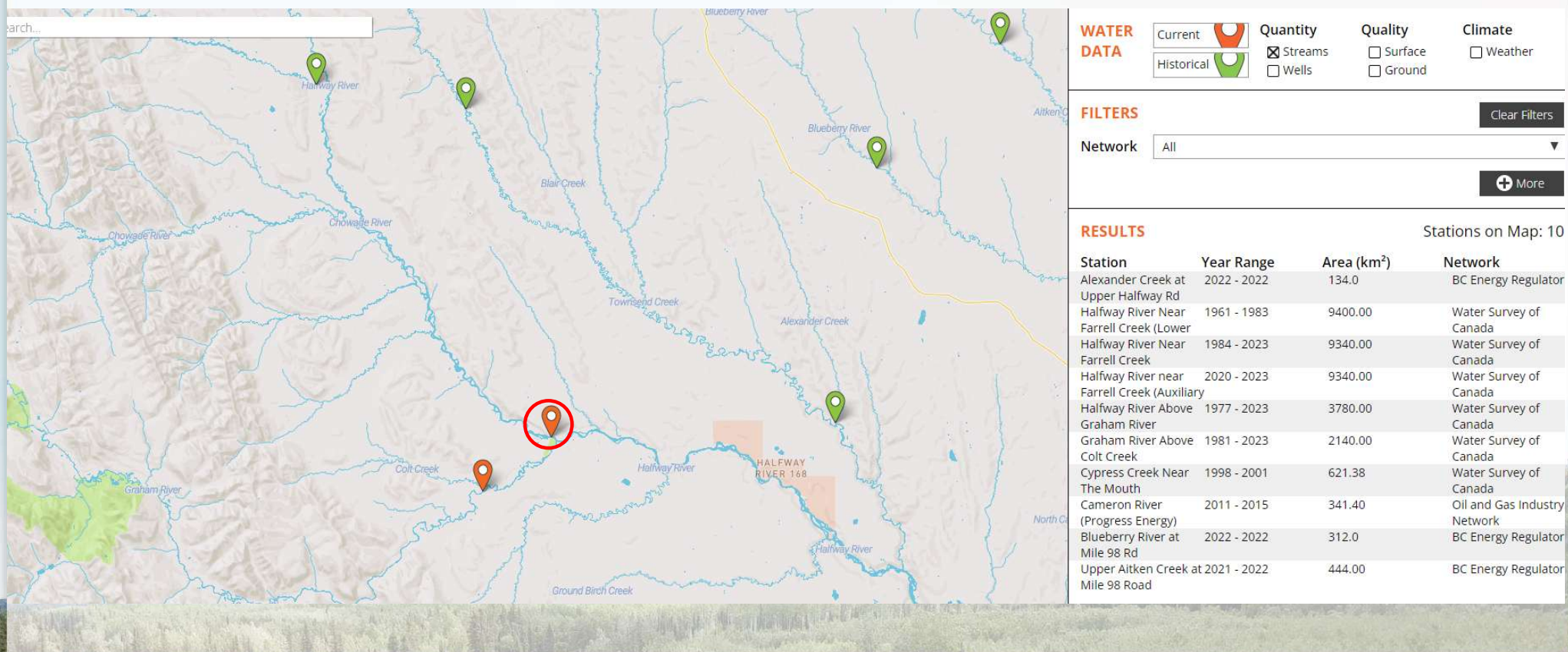
	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Station	07FA003	07FA003	07FA003	07FA003	07FA003	07FA003	07FA003	07FA003	07FA003	07FA003	07FA003	07FA003
Candidate 1	90th	8.02	6.77	6.67	26.66	91.50	198.42	142.56	83.85	56.82	40.17	16.16	11.58
	75th	7.01	5.79	5.60	15.29	63.25	129.64	88.94	46.80	39.60	30.15	13.55	9.40
	Mean	6.55	6.00	5.62	13.99	52.20	116.89	76.22	44.05	33.21	24.86	11.40	8.86
	25th	4.86	4.60	4.35	6.29	24.10	62.50	38.61	18.49	18.58	17.12	8.31	6.90
	10th	3.92	3.95	3.64	5.04	13.62	51.35	25.04	11.73	12.51	12.64	7.00	5.42

	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Station	10CB001	10CB001	10CB001	10CB001	07FA005	07FA005	10CB001	07FA005	10CB001	10CB001	10CB001	10CB001
Candidate 2	90th	8.32	7.56	7.20	23.91	108.58	178.56	121.38	68.00	54.26	37.88	16.71	11.95
	75th	7.53	7.06	6.39	12.44	75.71	139.30	87.89	49.89	38.76	28.95	12.73	10.27
	Mean	6.55	6.00	5.62	13.99	52.20	116.89	76.22	44.05	33.21	24.86	11.40	8.86
	25th	5.67	5.29	4.86	6.26	18.37	73.70	45.72	26.06	20.28	17.37	7.79	7.16
	10th	4.42	4.25	4.01	5.14	11.39	56.09	33.49	17.80	15.76	13.70	6.71	6.06

	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Station	07EB002	07FA005	07EB002	07FA005	10CB001	10CB001	07FA005	10CB001	07FA005	07FA005	07FA005	07FA005
Candidate 3	90th	8.47	7.33	6.61	22.27	92.44	179.68	125.03	77.77	58.78	36.82	16.24	11.93
	75th	7.32	6.57	6.10	16.31	64.30	135.22	92.21	50.83	39.76	28.25	13.22	10.14
	Mean	6.55	6.00	5.62	13.99	52.20	116.89	76.22	44.05	33.21	24.86	11.40	8.86
	25th	5.63	5.30	5.19	8.61	21.89	70.73	46.67	24.71	21.32	18.26	8.88	6.87
	10th	5.07	4.92	4.88	7.10	13.23	54.47	31.82	19.09	15.33	14.33	7.05	5.71

Drought considerations

Water Portal



Drought considerations

Water Portal

Halfway River Above Graham River

07FA003

NETWORK
Water Survey of
Canada

YEAR RANGE
1977 - 2026

STATUS
Current

AREA
3780.00 km²

MEAN ANNUAL DISCHARGE
33.30 m³/s

Seven Day Flow

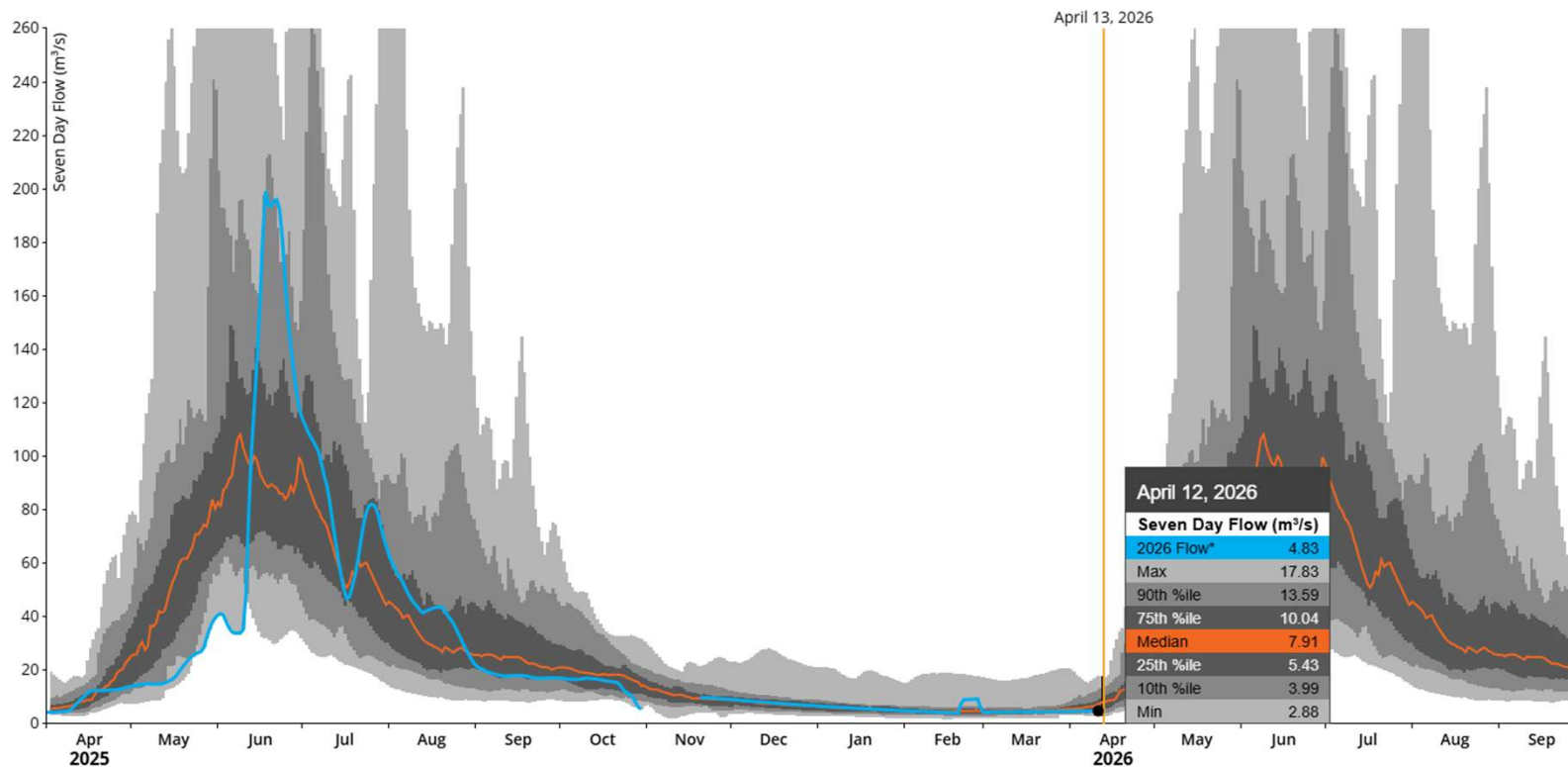
Flow Duration Tool

Flow Metrics

Monthly Mean Flow

Seven Day Flow

Save Chart

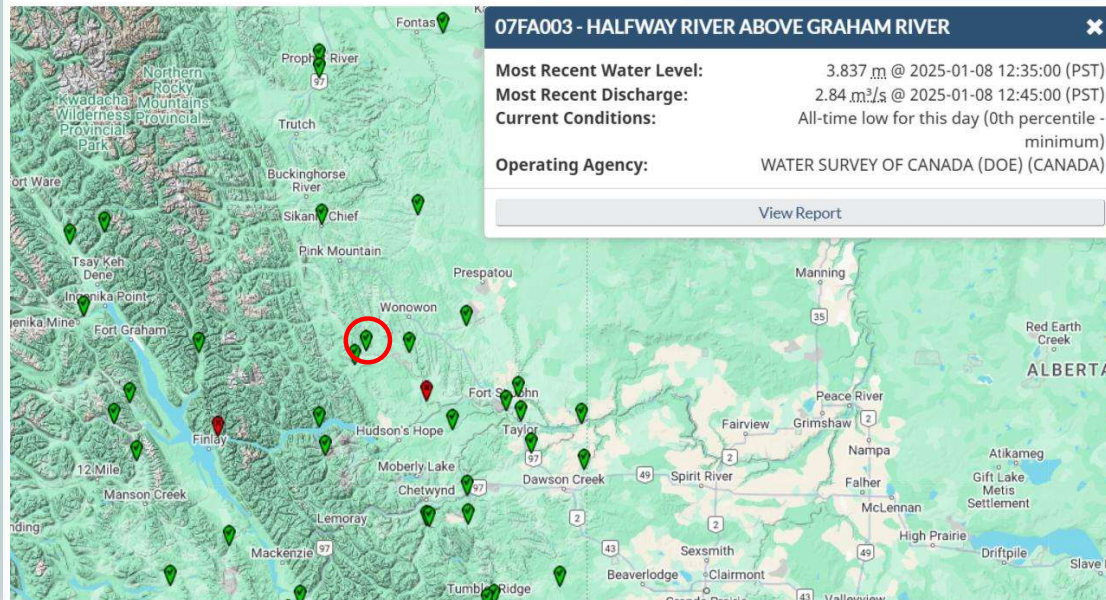


*Unverified data

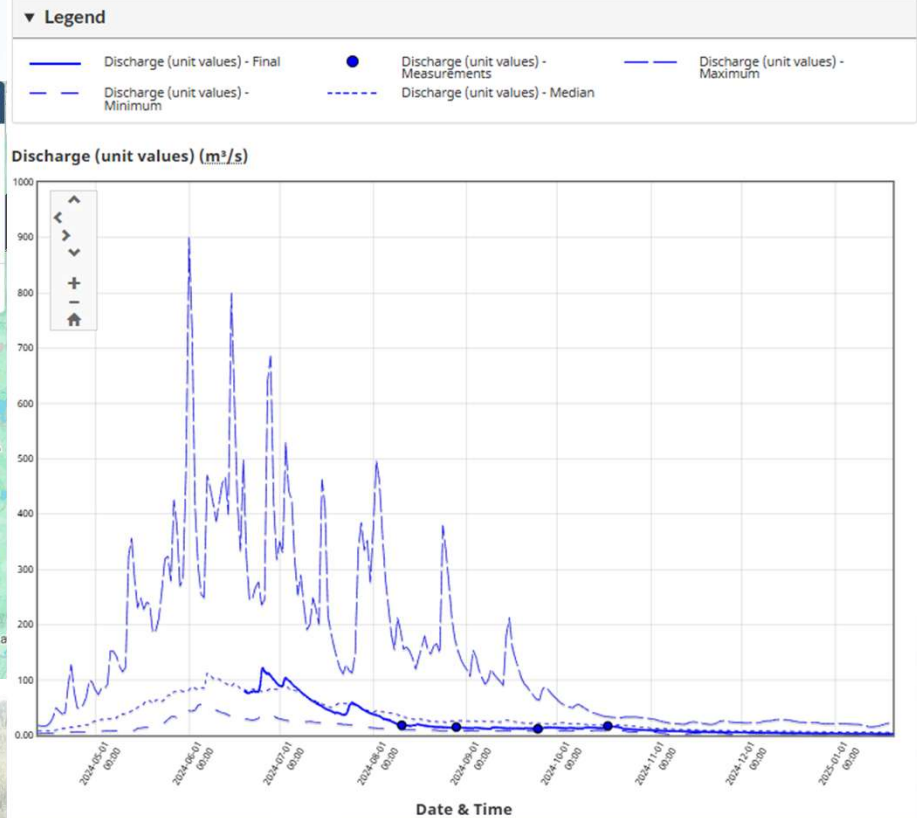
2025 Water State

Water Survey of Canada

Real-Time Hydrometric Data Map Search



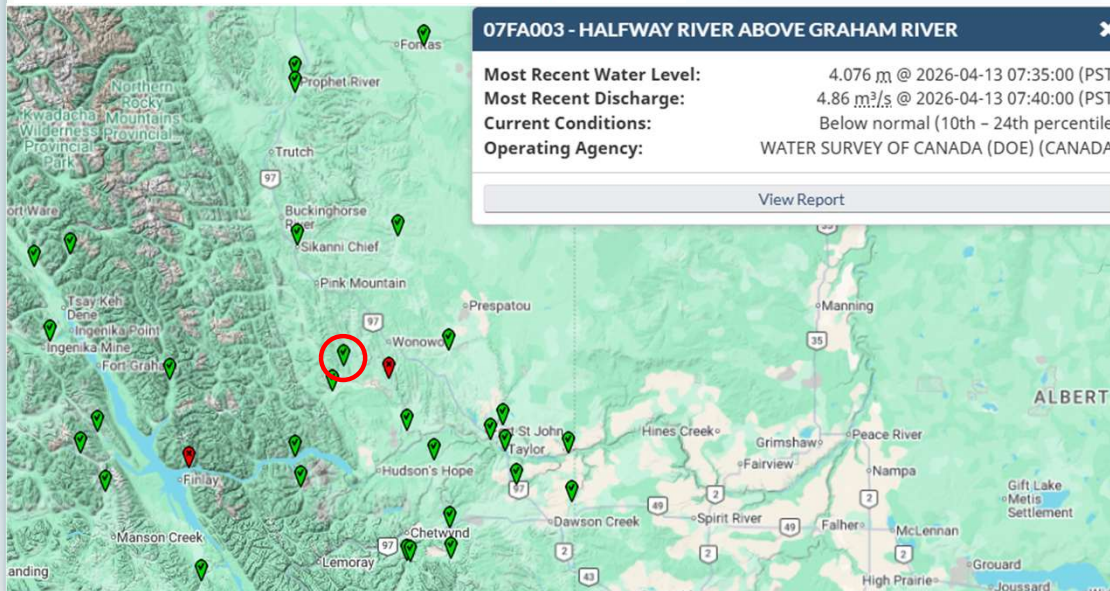
Real-Time Hydrometric Data Graph for HALFWAY RIVER ABOVE GRAHAM RIVER (07FA003) [BC]



Current Water State

Water Survey of Canada

Real-Time Hydrometric Data Map Search

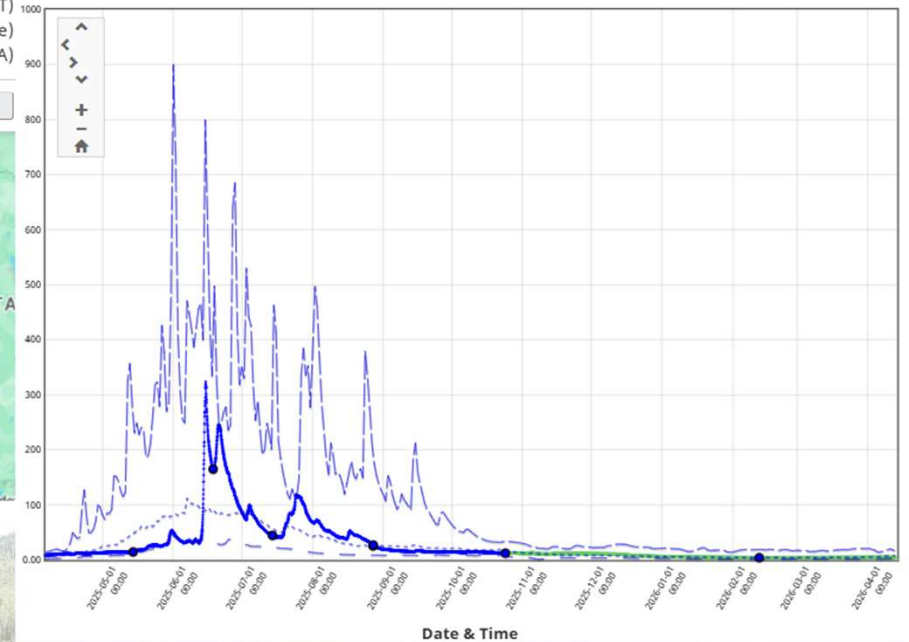


Real-Time Hydrometric Data Graph for HALFWAY RIVER ABOVE GRAHAM RIVER (07FA003) [BC]

Legend

- Discharge (unit values) - Final
- Discharge (unit values) - Provisional
- Discharge (unit values) - Maximum
- Discharge (unit values) - Minimum
- Discharge (unit values) - Measurements
- Discharge (unit values) - Median

Discharge (unit values) (m³/s)



Current Water State

Snow Pillows

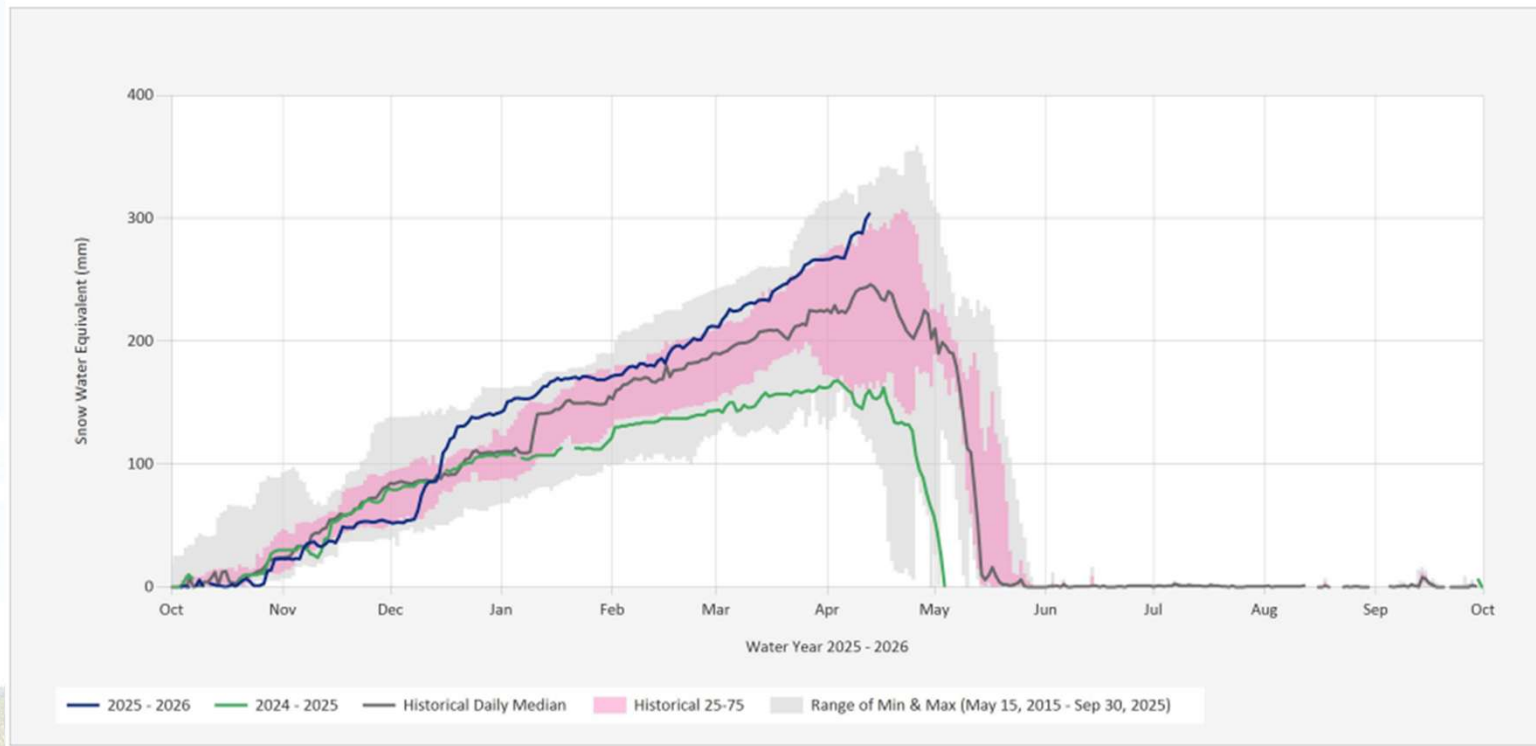
Automated Snow Weather Station Graph

Apr 13, 2026 | 1 of 1

Snow.4A31P.Automated Snow Weather Station Graph

Source Data: SW.Daily@4A31P

Location: Crying Girl Prairie, Latitude: 56.3858611, Longitude: -122.8928333, Elevation: : 1358 m



Current Water State

Snow Pillows

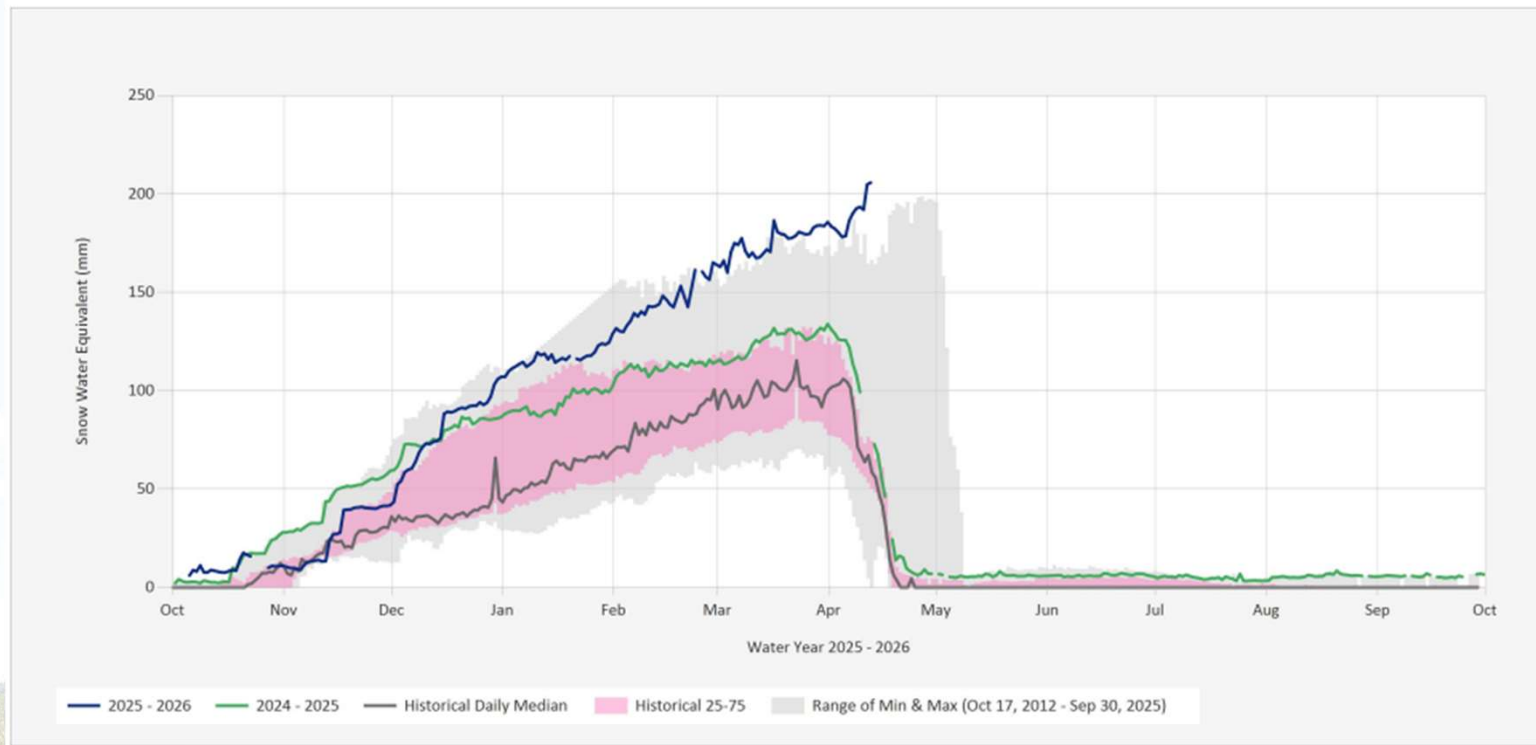
Automated Snow Weather Station Graph

Apr 13, 2026 | 1 of 1

Snow.4C21P.Automated Snow Weather Station Graph

Source Data: SW.Daily@4C21P

Location: Two Island Climate, Latitude: 59.344647, Longitude: -122.085922, Elevation: 708 m



Current Water State

Snow Pillows

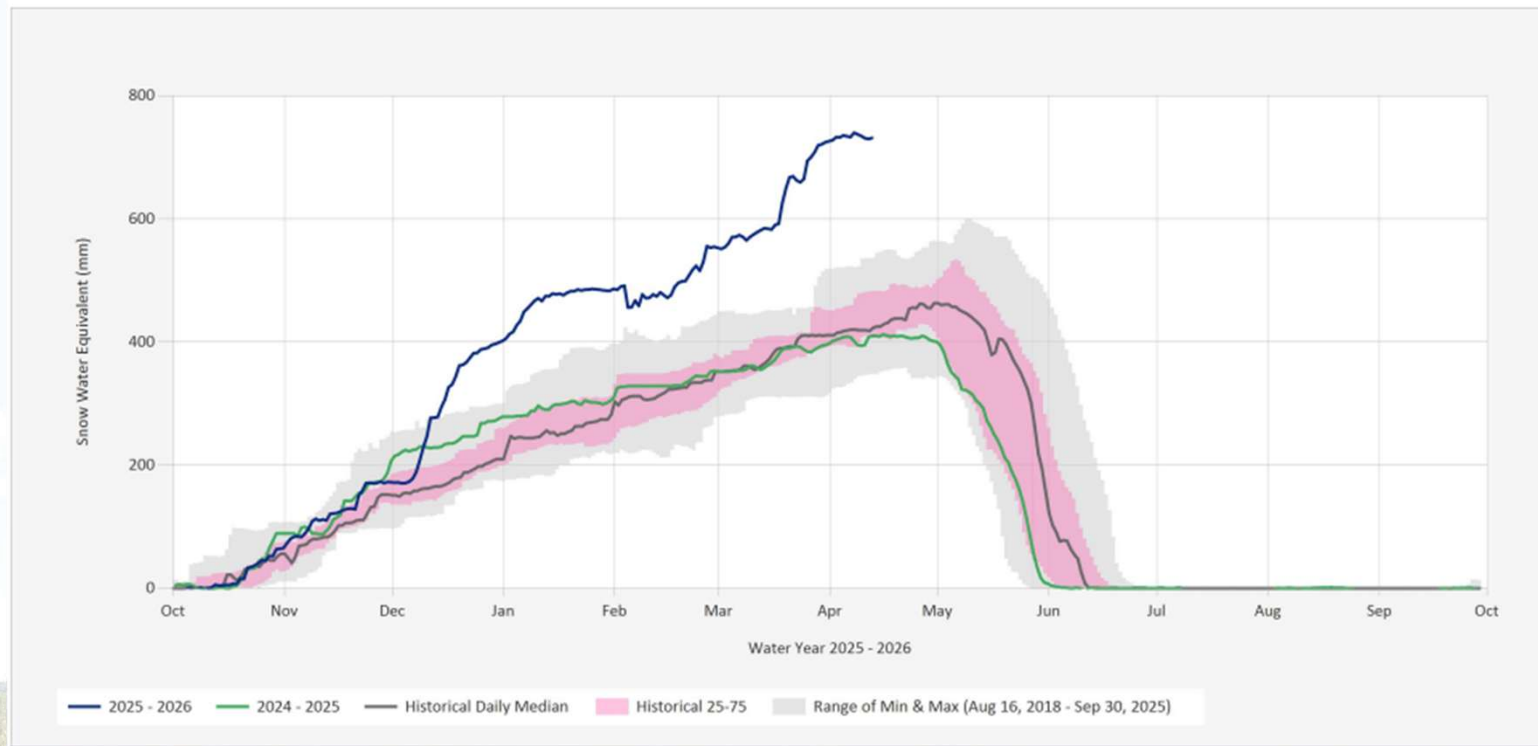
Automated Snow Weather Station Graph

Apr 13, 2026 | 1 of 1

Snow.4A20P.Automated Snow Weather Station Graph

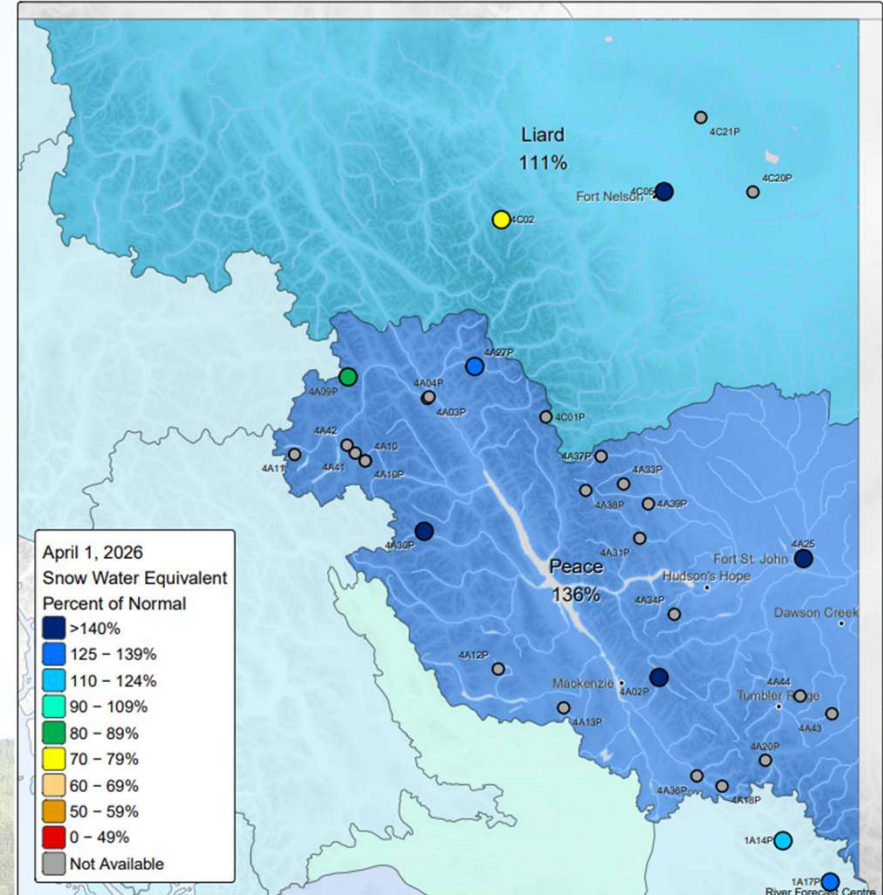
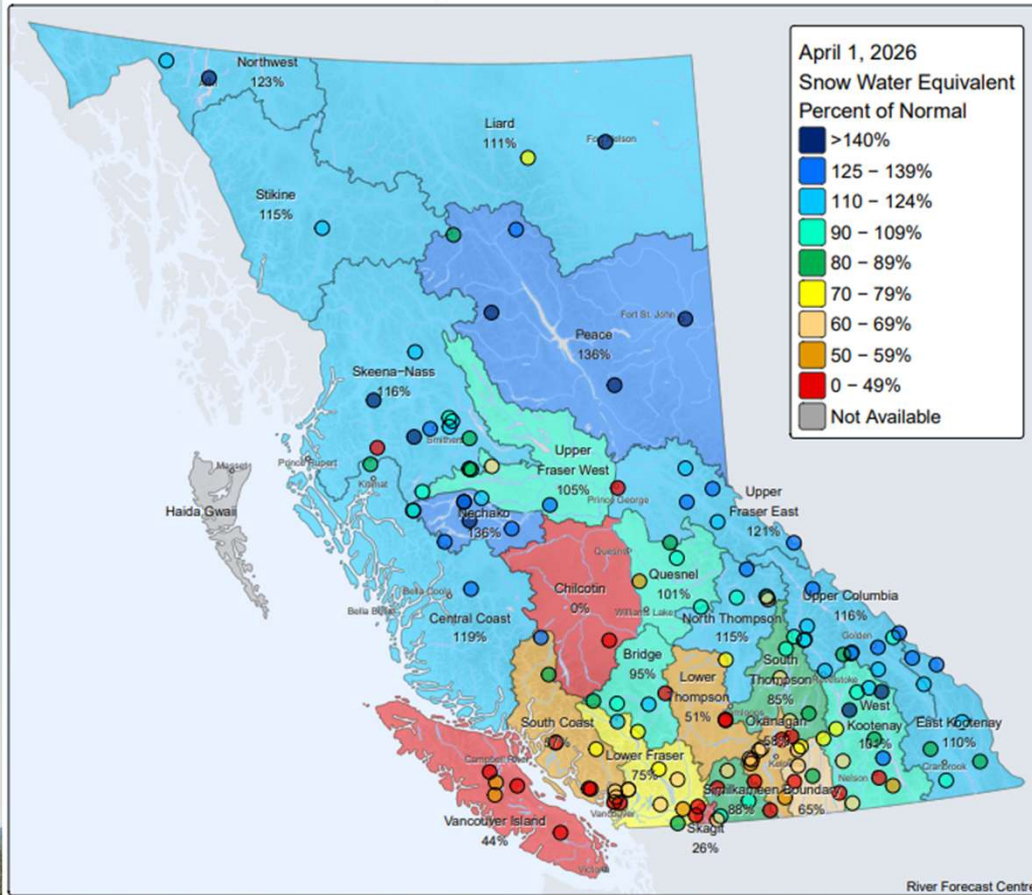
Source Data: SW.Daily@4A20P

Location: Monkman Creek, Latitude: 54.7252806, Longitude: -121.2316972, Elevation: : 1570 m



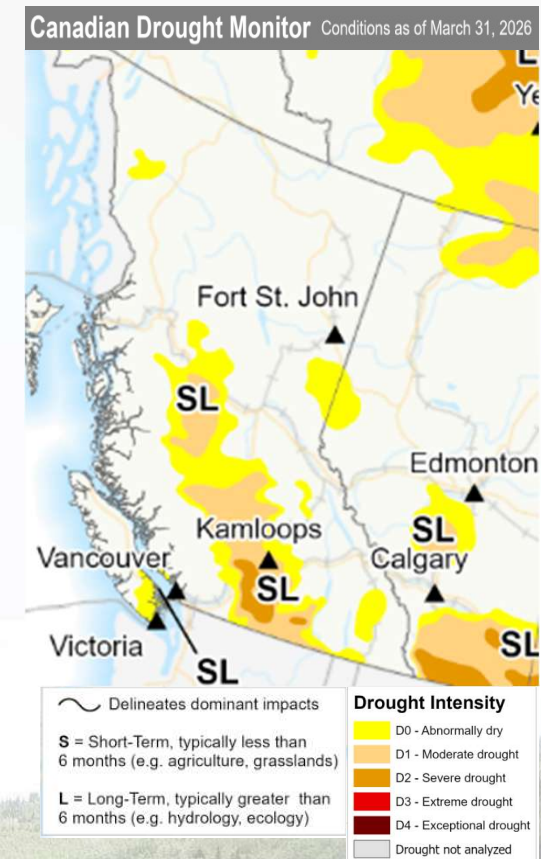
Current Water State

Snow Station Map – Percent of Normal



2026 Outlook

- **Current ENSO-neutral conditions are present**
 - El Niño likely to emerge in May-July and persist through at least the end of 2026
 - Seasonal outlooks from Environment and Climate Change Canada (ECCC) show increased likelihood of above normal temperatures across much of BC for the April to June period
 - Seasonal precipitation forecasts remain more uncertain
 - Some northern regions display a slight tilt toward above normal precipitation, but confidence is low
 - Potential for spring snowmelt related flooding in the north
 - Potential improvement to low stream flows and groundwater levels
 - Drought hazard remains sensitive to spring weather.
 - A warm and dry spring could rapidly accelerate snowmelt and reduce water availability.
 - Cool spring with continued precipitation could help mitigate emerging drought conditions.
- **We cannot accurately predict if drought will occur this summer; much will depend the weather patterns precipitation we see through spring and summer**



Drought in BC

Core Drought Indicators & Thresholds

Table 3: Drought Indicators Criteria Summary*.

Indicator	Core Indicators	Timing of Use	
		Early Season	Drought Season
		Basin Snow Measures	7-Day Average Stream flow (Percentiles)
Supplemental Indicators	Supplemental Indicators	Seasonal Volume Runoff Forecasts	30 Day Precipitation (Percentiles)
		All supplemental indicators listed above may be used throughout early season or drought season as appropriate	

Table 5: Drought Season Core Indicator Thresholds and Levels.

Indicator	Level 0	Level 1	Level 2	Level 3	Level 4	Level 5
30 Day* Precipitation (Percentiles)	>30 th	21 st - 30 th	11 th - 20 th	6 th - 10 th	2 nd - 5 th	< 2 nd
7-Day Average Streamflow (Percentiles)	>30 th	21 st - 30 th	11 th - 20 th	6 th - 10 th	2 nd - 5 th	< 2 nd

*The 30-day time scale is used for this criterion, but other timescales (60, 90 or 180 days) will also usually be referred to.

Supplemental Indicators

Supplemental indicators that may be considered include:

- Air temperatures;
- Stream water temperature;
- Aquifer levels;
- Community or commercial operations responding to low snowpack or low water supplies;
- Forecasts of stream flows from hydrologic models;
- Groundwater levels and soil moisture deficits;
- Indicator aquatic species;
- Individual indicator hydrometric station results;
- Measured flows at discontinued WSC or provincial hydrometric stations;
- Multi-year trends;
- Percent mean annual discharge (% MAD);
- Precipitation deficits at longer timescales (2-6 months);
- Reports of fish stress and other ecosystem impacts;
- Reports of low flows;
- Reservoir inflows, storage, or lake levels;
- Scientific drought indicators (e.g., Palmer Drought Severity Index, Standardized Precipitation Index);
- Short- and long-term weather forecasts;
- Streamflow characteristics at longer timescales (e.g., cumulative streamflow over 1-6-month periods); and,
- Wildfire danger class ratings and wildfire "Drought Codes".

[BC Drought Information Page](#)

[BC Drought Information Portal](#)

[British Columbia Drought and Water Scarcity Response Plan](#)

Drought in BC

34 Provincial Administrative Drought Regions

Drought levels

• Level 0



• Level 1



• Level 2



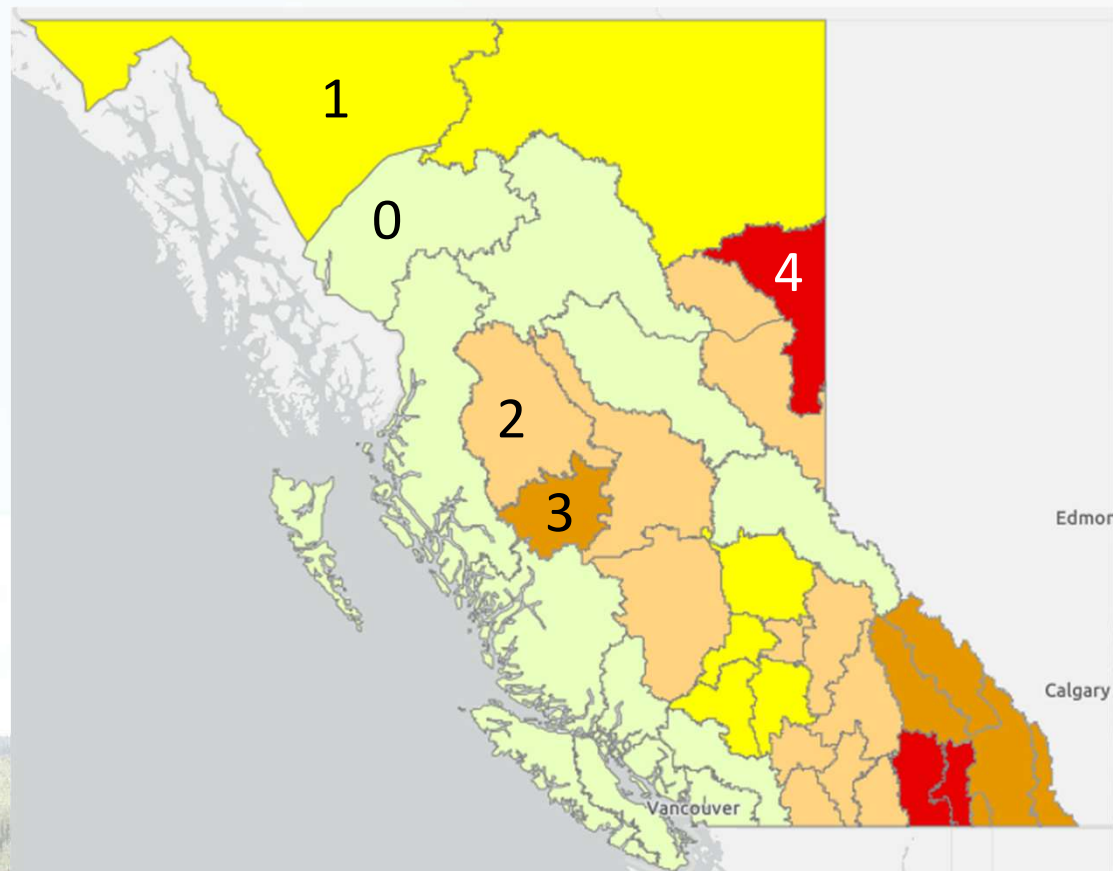
• Level 3



• Level 4



• Level 5



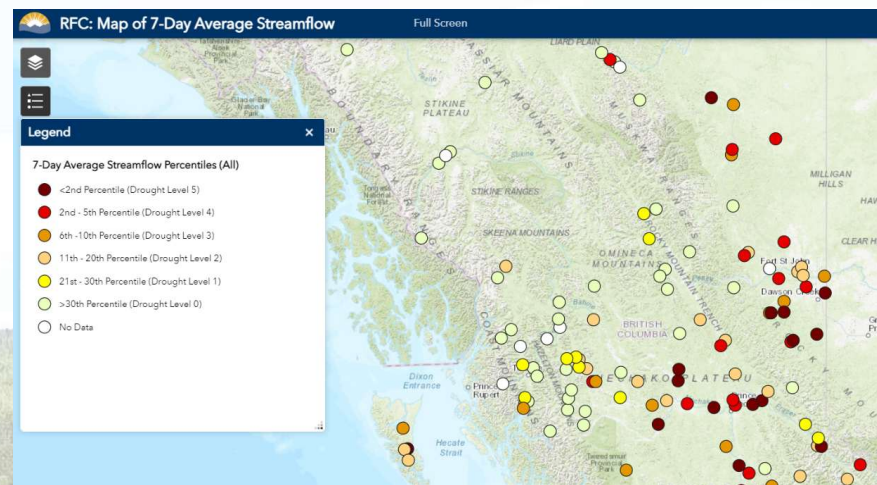
Current Conditions

- 3 of 34 (9%) Drought Regions at Level 4 at the wrap of drought monitoring season
 - Previous years: Unusual in both timing, length, and geographic extent
 - Antecedent Conditions

2025 DROUGHT LEVELS AT A GLANCE																												
Drought Levels:	0	1	2	3	4	5	*	Not updated outside of core drought season																				
BASINS	15-May	22-May	29-May	5-Jun	12-Jun	19-Jun	26-Jun	3-Jul	10-Jul	17-Jul	24-Jul	31-Jul	7-Aug	14-Aug	21-Aug	28-Aug	4-Sep	11-Sep	18-Sep	25-Sep	2-Oct	9-Oct	16-Oct	23-Oct	30-Oct			
Fort Nelson	3	3	3	3	4	3	5	5	2	1	2	1	1	1	1	1	1	1	1	1	2	2	2	2	1			
East Peace	4	4	4	4	4	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4			
North Peace	3	3	3	3	4	1	0	0	0	1	1	0	0	0	0	1	1	1	1	3	2	2	1	1	2			
South Peace	*	2	2	2	3	3	3	3	3	3	2	2	2	2	2	1	1	1	2	3	3	2	1	1	2			
Northwest	*	*	*	0	2	2	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1			
Stikine	*	*	*	0	2	2	1	0	0	0	0	0	1	0	0	0	0	0	0	1	1	2	1	0	0			
Skeena-Nass	*	*	1	0	0	2	0	1	1	0	0	1	2	0	0	0	1	3	2	0	0	0	1	1	0			
Skeena-Bulkley	*	*	*	1	2	2	2	2	2	2	1	2	2	2	1	1	2	2	1	1	0	0	1	2	2			
Nechako-Lakes	*	1	1	1	2	2	2	3	3	3	3	3	3	2	2	2	2	3	2	2	2	2	3	3	3			
Finlay	*	*	*	0	2	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0			
Parsnip	*	*	*	0	2	1	1	2	1	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0			
Upper Fraser West	*	1	1	1	1	1	1	2	2	1	1	2	2	2	1	1	2	2	2	2	2	2	2	2	2			
Upper Fraser East	*	*	*	0	1	1	1	2	2	1	1	1	1	0	0	0	1	2	2	2	1	0	0	0	0			
Upper Columbia	*	*	*	0	0	1	1	2	2	2	1	1	0	0	0	0	0	0	0	0	1	1	2	3	3			
Upper Arrow Lakes	*	*	*	0	1	1	2	2	2	2	2	2	2	2	0	1	1	1	2	3	4	3	3	3	3			
Kootenay River	*	*	*	0	3	3	4	3	3	3	2	1	2	1	1	1	3	3	3	3	3	3	2	3	3			
Elk-Flathead Valleys	*	*	3	1	4	5	4	2	2	2	0	0	0	0	0	1	2	2	2	2	1	2	2	3	3			
Creston	*	*	3	2	2	3	3	3	3	4	3	2	2	2	3	4	4	4	4	4	4	4	4	4	4			
Kootenay Lake-West Arm	*	*	2	0	2	3	3	3	3	3	2	2	2	1	0	1	2	3	3	3	3	3	3	3	3			
Stocan-Lower Columbia	*	*	1	0	2	2	3	2	3	4	4	3	2	2	1	2	2	3	3	3	4	4	4	4	4			
Kettle River	*	*	1	0	2	2	2	2	3	3	3	2	2	2	1	1	1	2	2	3	3	3	3	3	2			
Cleaverwater	*	2	1	2	3	3	3	2	3	2	2	1	2	1	1	1	2	2	2	3	3	3	2	1	2			
South Cariboo	*	2	2	1	3	3	1	1	2	2	0	0	1	1	2	3	3	3	3	3	3	2	1	1	1			
Quesnel	*	*	*	0	1	0	1	1	1	1	0	0	1	0	0	0	2	2	3	3	2	0	0	1	1			
Chilcotin	*	1	2	1	2	1	2	1	2	2	2	2	2	2	2	2	3	3	3	2	2	1	1	2	2			
Lower Thompson	*	2	2	2	3	2	2	2	2	2	1	1	1	0	0	0	1	1	2	2	2	2	1	2	1			
North Thompson	*	*	*	0	1	1	2	2	2	2	1	1	1	1	0	0	1	2	2	3	3	2	2	2	2			
South Thompson	*	*	*	0	1	1	1	1	2	1	1	1	1	0	0	0	1	1	2	2	3	2	2	2	2			
Bridge	*	*	*	0	1	1	2	2	2	1	2	2	2	2	2	3	2	1	2	2	0	0	0	2	1			
Nicola	*	1	2	2	2	1	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	3	3	3	2			
Okanagan	*	1	1	1	2	2	2	2	3	3	2	1	1	1	0	1	2	3	3	3	3	4	4	3	2			
Similkameen	*	1	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3			
Central Pacific Range	*	*	2	0	1	2	2	2	3	3	2	2	2	3	1	2	2	1	1	2	1	0	1	2	0			
Eastern Pacific Range	*	*	*	0	0	1	1	2	2	2	2	2	2	2	1	3	3	2	3	2	2	0	1	2	0			
Sunshine Coast	2	1	1	1	1	1	1	2	2	0	2	2	2	1	0	1	1	2	2	1	0	0	0	0	0			
Lower Mainland	2	1	1	1	1	1	1	2	2	0	2	2	2	1	0	1	1	1	1	1	1	0	0	0	0			
Central Coast	*	*	2	1	0	2	2	2	2	0	1	2	3	3	0	1	1	2	1	0	0	0	1	2	0			
West Vancouver Island	3	2	0	1	1	1	2	2	2	2	2	2	3	3	0	0	1	2	1	1	0	0	1	1	0			
East Vancouver Island	3	2	1	1	1	1	1	2	2	2	2	3	3	3	0	1	2	2	2	2	0	0	0	1	0			
Haida Gwaii	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0			

Key Messages

- Decreased likelihood of drought this summer
 - Drought and wildfire conditions this spring/summer will be highly dependent on actual weather patterns and precipitation we see
- Difficult to plan using only seasonal forecasts so let's be ready for anything & everything
- Consider water conservation measures
- Ensure preparation and update of water use contingency plans
- Stay informed on developing conditions
 - BC Drought Information Portal
 - Drought Levels
 - 7-Day Streamflow Conditions
 - Groundwater Level Conditions
 - Snow Basin Indices



Active and Engaged Water Management

- Prioritize environmental and community water needs
 - Regulatory Authority for WSA s9 & s10
- Issue Directives suspending water use under WSA S10
- Proactive engagement of industry in preparation for the 2026 drought season
- Actively monitor conditions across B.C. and work with provincial staff to identify other basins outside of the northeast in need of suspension

2025 BCER Drought Management Summary

At the start of the 2025 drought season, several s.10 Directives were in effect, some extending from 2023

Legend:

- "Open" = water diversion/use allowed, as permitted
- "Closed" = water diversion/use suspension in effect

Peace River Watershed

River	Mainstem	Tributaries (including lakes)
Kiskatinaw	Closed	Closed
Beaton	Open	Closed
Sukunka	Open	Closed
Murray	Open	Closed

Liard River Watershed

River	Mainstem	Tributaries (including lakes)
Fontas	Closed	Closed
Sikanni Chief	Open	Closed
Prophet	Open	Closed
Kiwigana	Open	Closed

2025 BCER Drought Management Summary

- There were no escalation of suspension directives during the 2025 core drought season
 - Due to extended suspensions from 2023 & 2024
- One suspension issued in December 2025 (Nicola Lake) due to record low lake levels

2025 BCER Drought Management Summary

At the time of preparing this presentation, the following s.10 Directives are in effect:

Legend:

- “Open” = water diversion/use allowed, as permitted
- “Closed” = water diversion/use suspension in effect

Fraser River Watershed		
Nicola Lake	Closed	
Peace River Watershed		
River	Mainstem	Tributaries (including lakes)
Kiskatinaw	Closed	Closed
Beatton	Open	Closed
Sukunka	Open	Closed
Murray	Open	Closed
Liard River Watershed		
River	Mainstem	Tributaries (including lakes)
Fontas	Closed	Closed
Sikanni Chief	Open	Closed
Prophet	Open	Closed
Kiwigana	Open	Closed

BCER Water Information

<https://www.bc-er.ca/how-we-regulate/safeguard-the-environment/water-management/>



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Restoring Oil & Gas Sites

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Water is an essential component in many oil and gas operations. Our water team is responsible for reviewing, assessing, and making decisions on water use and have the expertise and tools to make informed water management choices.

Protecting and maintaining environmental and community water needs are our priorities.

The largest use of water for oil and gas activities is for hydraulic fracturing. However, water is used for other purposes, such as:



BCER Water Management Reports

<https://www.bc-er.ca/data-reports/reports/?topic=39>

The screenshot shows the BCER website's 'Data & Reports' section for Water Management. The page has a header with the BCER logo and navigation links. A sidebar on the left lists various topics, with 'Water Management' highlighted. The main content area displays a list of reports, with the '2025 Q3 Water Management Summary' report highlighted by a red box. The reports are sorted by 'Date Published' in descending order.

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- Orphan Site Reclamation Fund
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- Seismicity and Fracturing
- Water Management**
- Wildfires

Date Published

- All years**
- 2026
- 2025

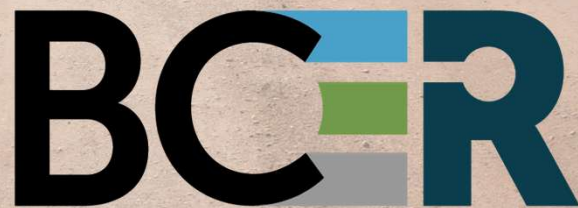
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	Water Management Date Published: Jan 24, 2025 2024 Q3 Water Management Summary (PDF)
	Water Management Date Published: Sep 5, 2024 2024 Q2 Water Management Summary (PDF)
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	Water Management Date Published: May 17, 2024 2023 Q4 Water Management Summary (PDF)

Thank You

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