

Community Flow Monitoring Network



Vancouver Island

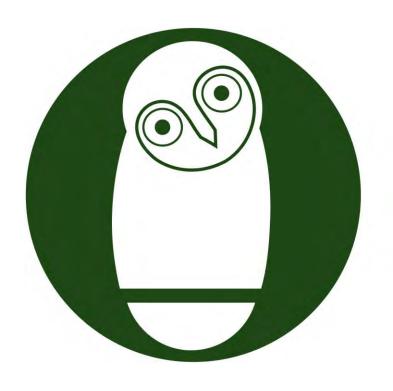












BRITISH COLUMBIA CONSERVATION FOUNDATION

Project funding and support provided by:











Freshwater Fisheries Society of BC

Fisheries and Oceans Canada

Pêches et Océans Canada

REGI
DIST



The McLean Foundation



Community Flow Monitoring Network



Streamkeepers and community groups

Vancouver Island

Regional Districts & Municipalities







Who are we?

• A network of community volunteers and eNGOs who are engaged in streamflow monitoring on Vancouver Island.

• The Network is delivered through a partnership with the British Columbia Conservation Foundation (BCCF) and the BC Ministry of Environment (ENV), overseen by a local Network Coordinator.

The CFMN-VI is a pilot project intended to test the feasibility of rolling out community hydrometric networks at a provincial scale.

Where are we?



Community Flow Monitoring Network











Is it for me?

- Anyone interested in monitoring streamflow in their local community
- Limited extra capacity for 2023 (expected to expand as program grows)







Is it for me?

Benefits:

- Training events, field support, equipment sharing, and data help
- Guidance from Standard Operating Procedures (SOP)
- 2x/year group meetings to review progress, discuss ideas, assess results
- 1x/year monitoring audit with direct feedback
- Support to share data directly with the Province of BC & house data on their central hydrometric database - AQUARIUS

Flow Data to Action







- Fish rescue
 - Habitat mapping
 - Fry salvage
- Channel and riparian restoration
 - Timing and seasonality of flow
 - Planting prescriptions
- ***** Estimating pollutant loads
 - Before-after comparisons
 - Potential mixing/loading rate calculations
- Environmental flow needs
 - More accurate flow estimates
 - Proactive protections
- Community water balance and water conservation
 - Campaign data
 - Outreach







2022 Pilot Results

Beach Creek Qualicum Beach, BC Streamkeepers

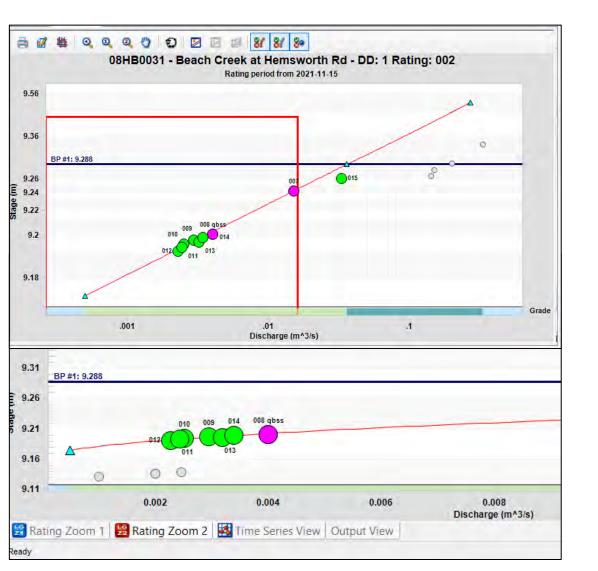




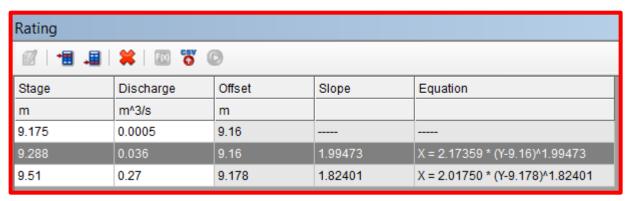




2022 Pilot Results



Beach Creek Qualicum Beach, BC Streamkeepers



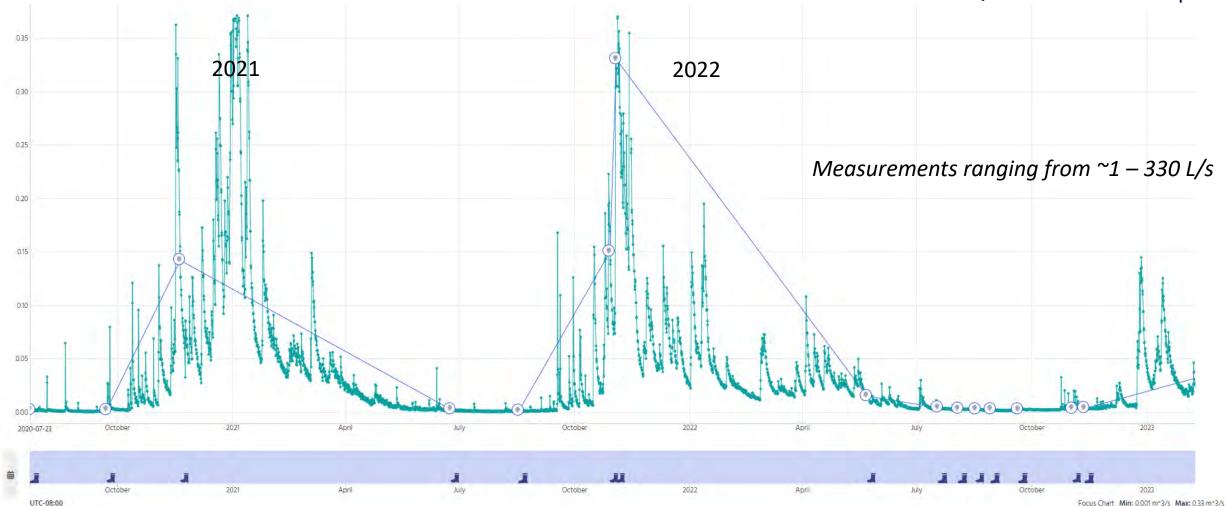
Discharge	Grade	Color
m^3/s		
0.0005	0 - Undefined	
0.036	31 - Good	
0.33	25 - Best Practice	
Above	0 - Undefined	

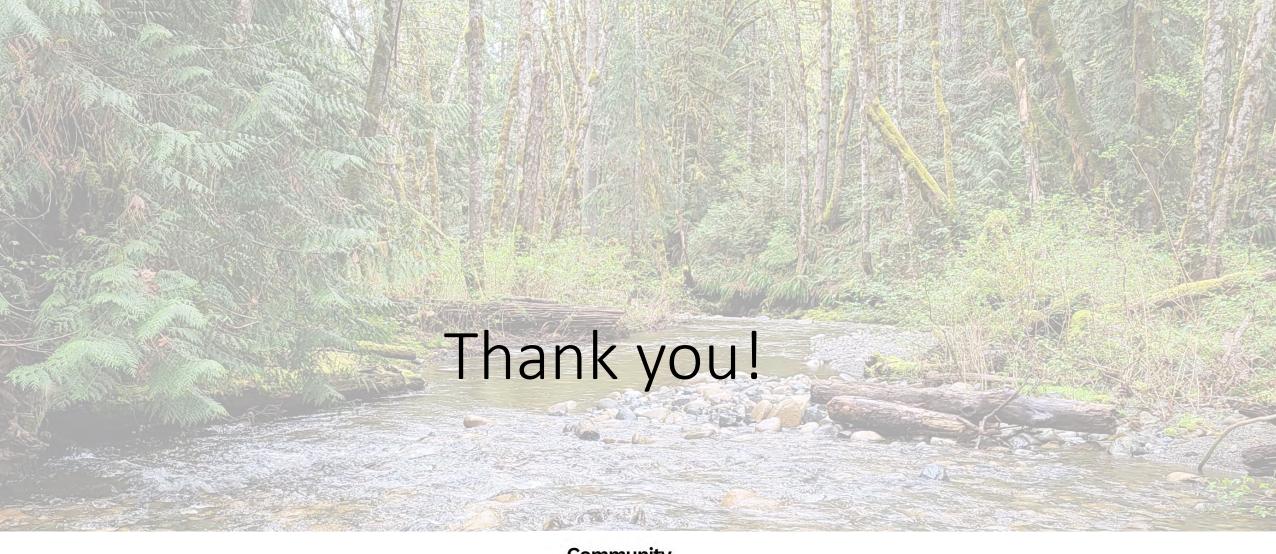




2022 Pilot Results

Beach Creek Qualicum Beach, BC Streamkeepers







Community Flow Monitoring Network



