



# Water Monitoring of Canadian Lakes

Living Lakes 2022 – 16th International  
Conference on Lakes and Wetlands

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Columbia Basin Water Monitoring Framework

# Land Acknowledgement

We respectfully that acknowledge our water stewardship work originated in the unceded traditional territories of the Ktunaxa, Secwepemc, Sinixt and Syilx Nations who have stewarded these lands for generations.

Our organization also works across the province and country on water stewardship projects in the traditional territories of many nations.



# Presentation Overview

- Living Lakes Canada Overview
- Regional Projects
- National Projects
- Lessons Learned and Transferability
- Closing



# Our Work

LLC works to understand all freshwater ecosystems, including:

- Lakes
- Wetlands
- Restoration
- Rivers and streams
- Groundwater
- Snow and high elevation lakes
- Data and policy



# Leader in Water Stewardship

## Regional

- Columbia Basin Water Monitoring Framework
- Columbia Basin Water Hub
- Columbia Basin Groundwater Monitoring Program
- Foreshore Integrated Management Planning
- High Elevation Monitoring
- Eastern Slopes Aquatic Monitoring Collaborative
- Watershed Restoration Program

## National

- National Community Based Water Monitoring Conference
- Member of BC and Federal Water Coalitions
- **STREAM (Sequencing The Rivers for Environmental Assessment and Monitoring)**
- **CABIN (Canadian Aquatic Biomonitoring Network) Training**
- Targeted Environmental DNA Research
- National Lake Blitz
- Empower Your Watershed



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# Columbia Basin Water Monitoring Framework

Monitoring climate impacts on all parts of the water cycle, from high elevation lakes to wetlands in valley bottoms.



**Welcome to the Columbia Basin Water Hub,**  
a central place for open water data and information, research, and  
collaboration in the Columbia Basin.



View Data



Explore Map



Contribute Data

[cbwaterhub.ca](http://cbwaterhub.ca)



# Foreshore Integrated Management Planning (FIMP)

- A shoreline survey tool that maps shoreline habitats, assesses habitat value and establishes Foreshore Development Guidelines to conserve ecosystems, support climate resiliency, protect species of conservation concern and provide best management practices



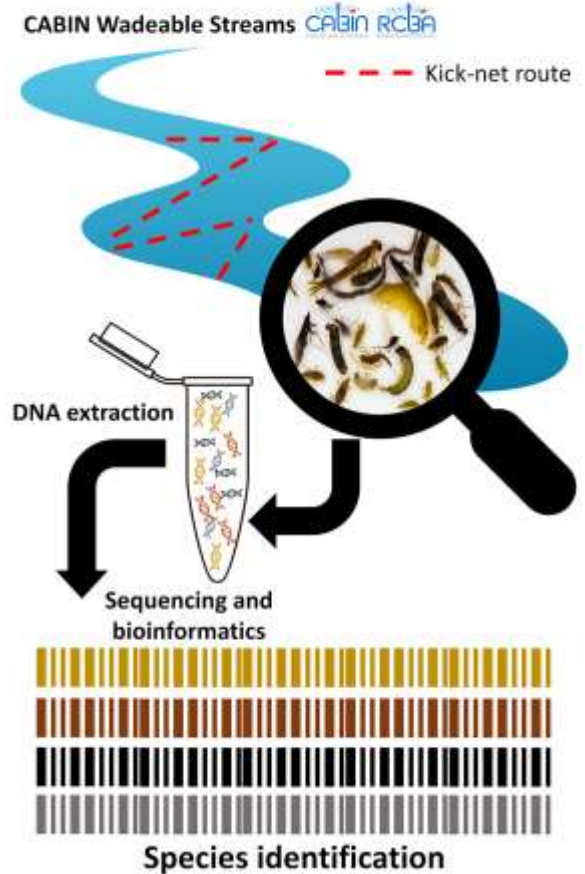
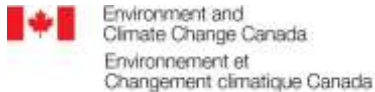
# CABIN

- Canadian Aquatic Biomonitoring Network
- Collecting benthic macroinvertebrates using the kick-net method
- Standardized federal protocol
- Used for assessing river and stream health
- Stream health assessment report is generated

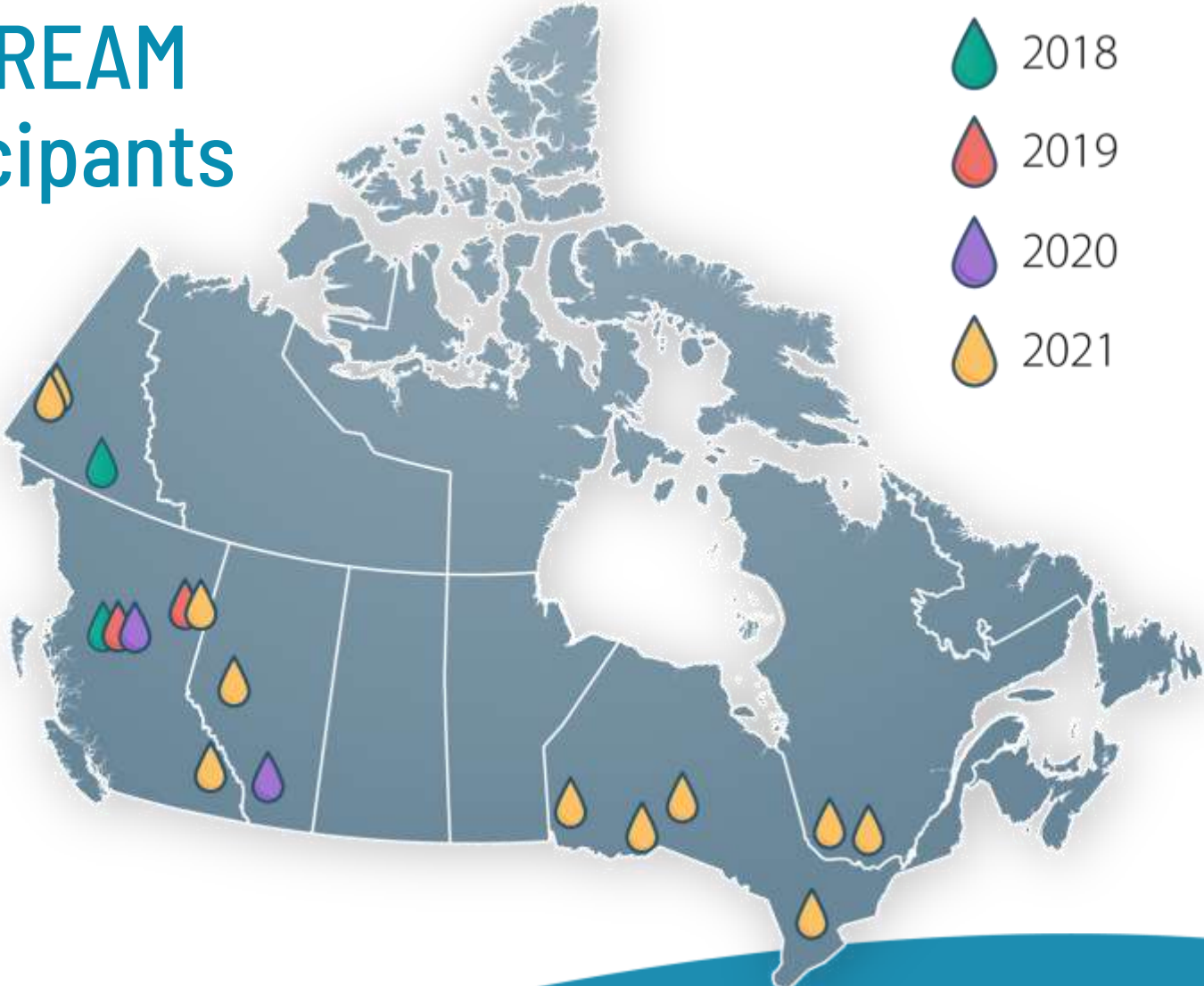


# STREAM Project

- Sequencing The Rivers for Environmental Assessment and Monitoring
- Combines community-based monitoring with the latest DNA-based technology to generate data on freshwater health
- Multi-sector partnership, including community groups and First Nations.
- Project partners:

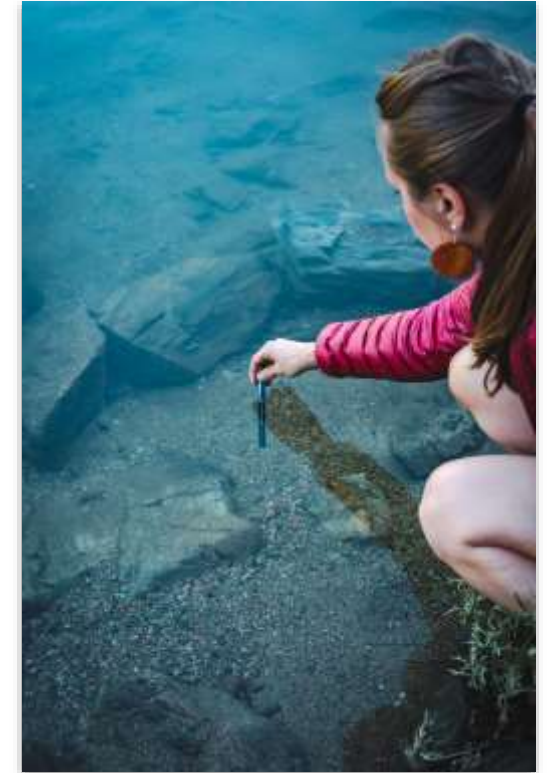


# Indigenous STREAM Training Participants



# The National Lake Blitz

- Our goal
- Entry level citizen science
- Education on climate change impacts to freshwater:
  - Rising temperatures
  - Invasive species
  - Harmful algal blooms



Credit: Travis Adams

# Lessons Learned and Transferability

LLC collaborates with different groups and sectors to ensure important work is achieved:

- Strategic Outreach
- Diverse Partnerships
- Ongoing Collaboration



# Contact



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Questions?