



ENVIRONMENTAL PROGRAMS



Study Our Streams

Stream Stewardship: Linking Science with Action

Lucie Lavoie, EcoSuperior

Our Project Partners:



Canada-Ontario Agreement
Respecting the Great Lakes Basin Ecosystem



UPPER GREAT LAKES
MANAGEMENT UNIT



Fisheries and Oceans
Canada

Pêches et Océans
Canada



Lake Superior
Binational Program



NORTH SHORE
Steelhead
ASSOCIATION

CITY OF
Thunder Bay
Superior by Nature



Educational tools



HEALTHY STREAMS...

- provide natural flood control
- maintain water quality and quantity
- recycle nutrients
- provide homes to fish, plants and animals





Why Protect Our Streams And Rivers?





Trading Cards

STREAM HABITAT CURRICULUM PACKAGE

Grade 7



Prepared by:



Funding Partners:



Pêches et Océans
Canada

Fisheries and Oceans
Canada



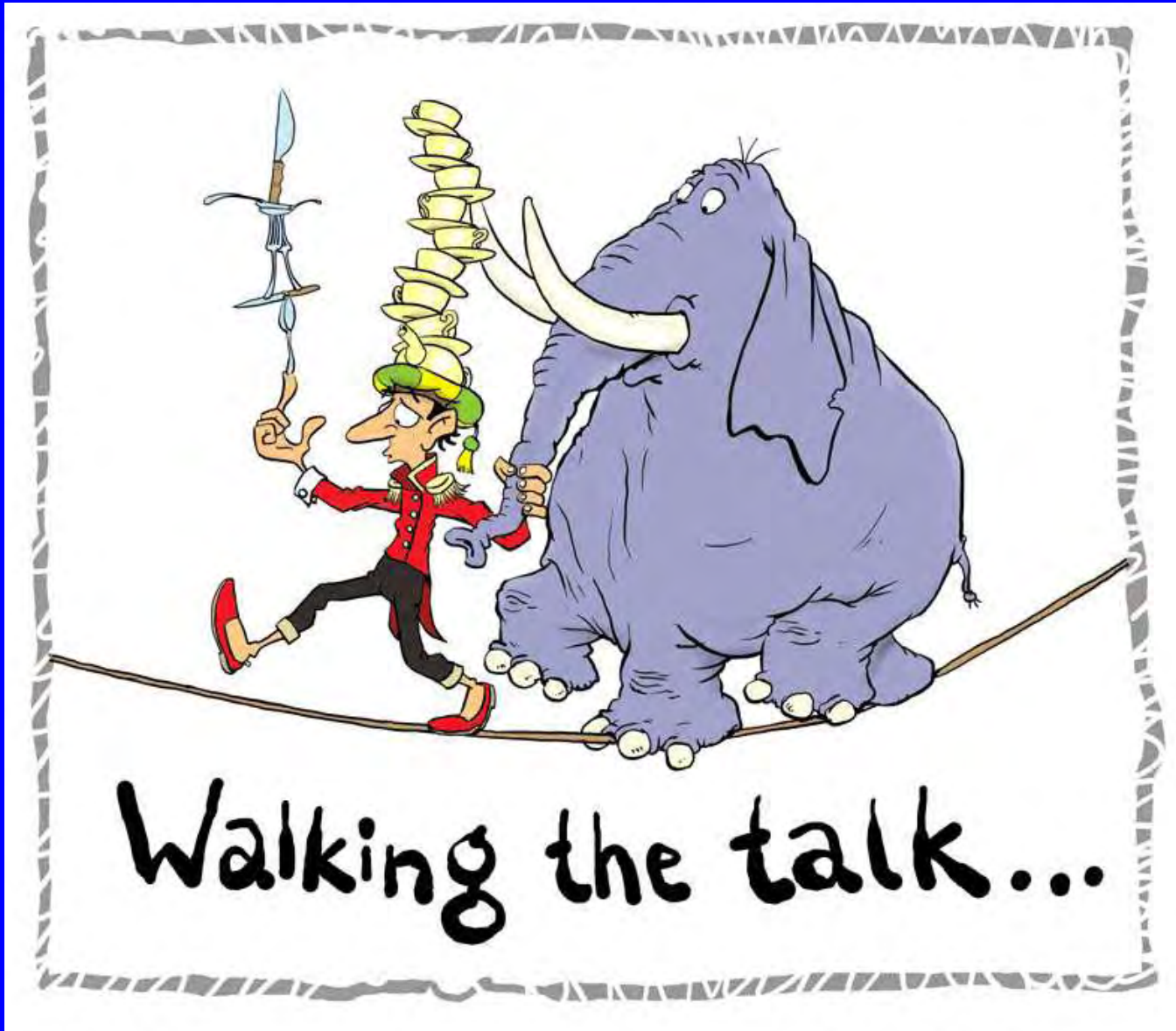
Lake Superior
Binalational Program



Canada-Ontario Agreement
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Creating change...



Linking Science with Action: Citizen Monitoring of Benthos



Why are benthos good bioindicators?

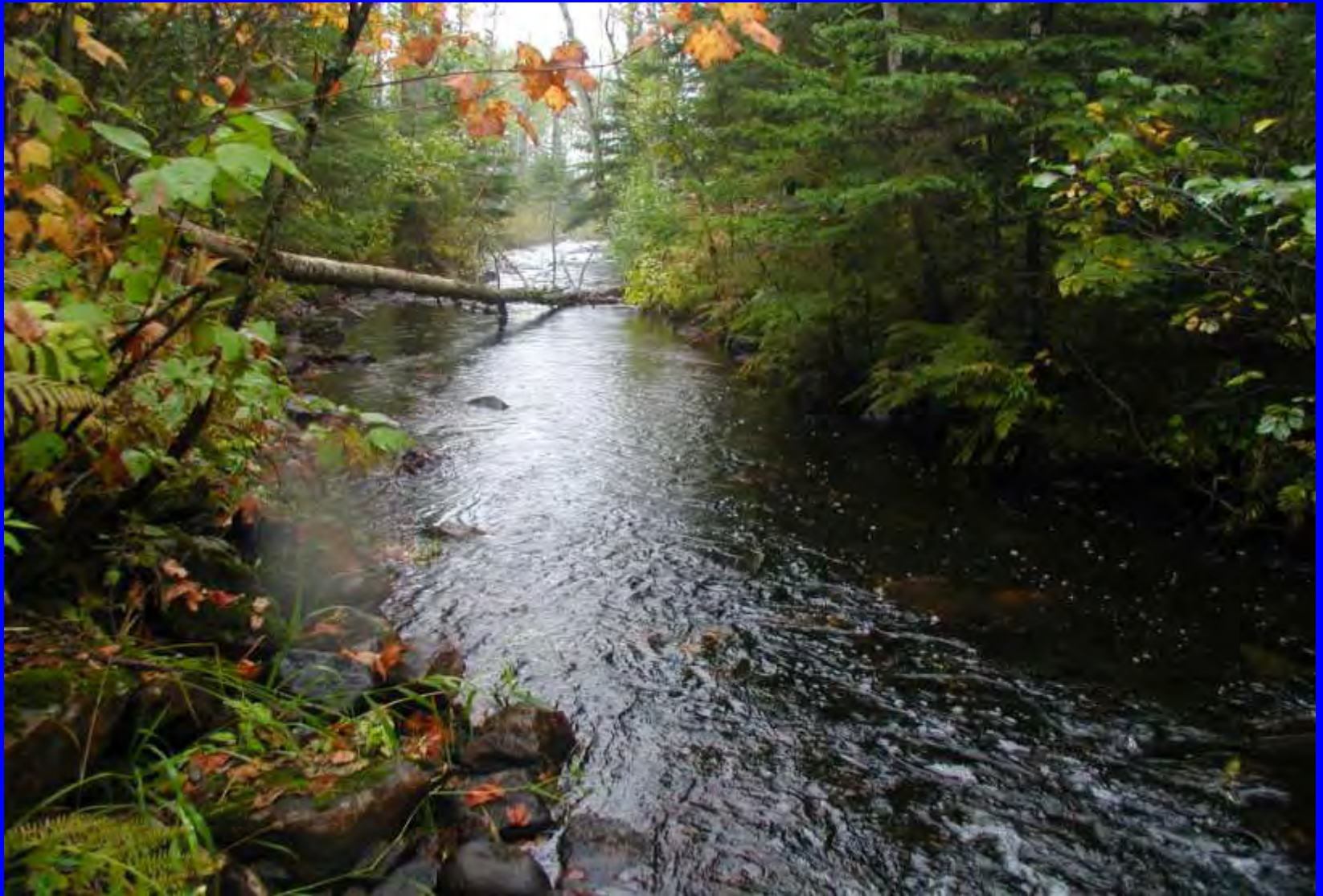
- Abundant and widespread
- Nobody cares
- Easily and inexpensively sampled
- Sedentary (unlike fish)
- Long lived (months to years)
- Many species with different tolerances
- Respond to both water and sediment chemistry
- Readily archived for future reference
- Provide early-warning

(Mackie 2001, Rosenberg & Resh 1993, 1996)



Stream benthos collection in the Raisin River watershed

Reference conditions



Reference conditions



Ontario Benthos Biomonitoring Network

[logout](#)

OBBN

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OBBN



Updated: 2004-11-01

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Professional training



STUDY OUR STREAMS:



A CITIZEN'S GUIDE TO MONITORING WITH BENTHIC MACROINVERTEBRATES



Citizen training



How to use this guide

Each step is bold and underlined

1. Procedure appears as a numbered list under the step title.
2. Be sure to follow each step in order to ensure accurate results.



This symbol indicates the need to record information on your data sheet.

Gray boxes contain information to help you with your stream monitoring.

Thanks to Citizen's Environment Watch for allowing us to use the format and layout from *Water Quality Monitoring with Benthic Macroinvertebrates: Field Manual* published Fall 2006. www.citizensenvironmentwatch.org

Citizen training





Lower your net just above the surface of the stream bed

What we've learned from participants



What we've learned from participants

- **Like the course and sampling experience**
- **Benthos ID was a challenge**
- **Took a long time to sample a stream**
- **Not confident in results (with reason)**



Where do we go from here?

