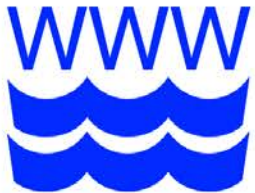


# BEAVER RIVER WATERSHED INITIATIVE (BRWI)



# BRWI Mission Statement

To co-ordinate actions by environmentally concerned community members aimed at improving and conserving the overall water quality of the Beaver River Watershed.

This could include stream work, spawning beds, removal of parts or all existing beaver dams, tree planting for shade, improvement of existing ponds, promotion, education and volunteer development.

once we become aware of the actions required for the aforesaid we will seize opportunities for restoration and protection by supporting the efforts of individuals, communities, businesses and governments and their agencies.

The above will be accomplished through community engagement and on the ground restoration.



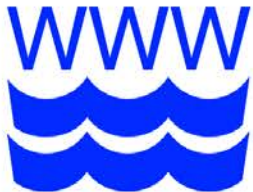
# BRWI Purpose

1. To promote awareness, education and protection of the Beaver River water shed to ensure clean water and a healthy eco system in the said water shed through community partnerships.
2. To research, organize and participate in projects that are designed to improve, preserve or enhance the eco system as it relates to the water shed within the affected communities.
3. To educate and promote public awareness of the water shed and its importance by holding meetings, field trips and seminars to disseminate appropriate information.
4. To undertake projects in accordance with our mission and to do fund raising necessary to carry out such projects and work collaboratively with other like minded groups or individuals.



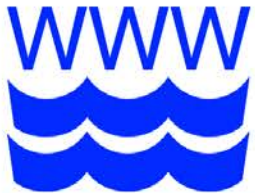
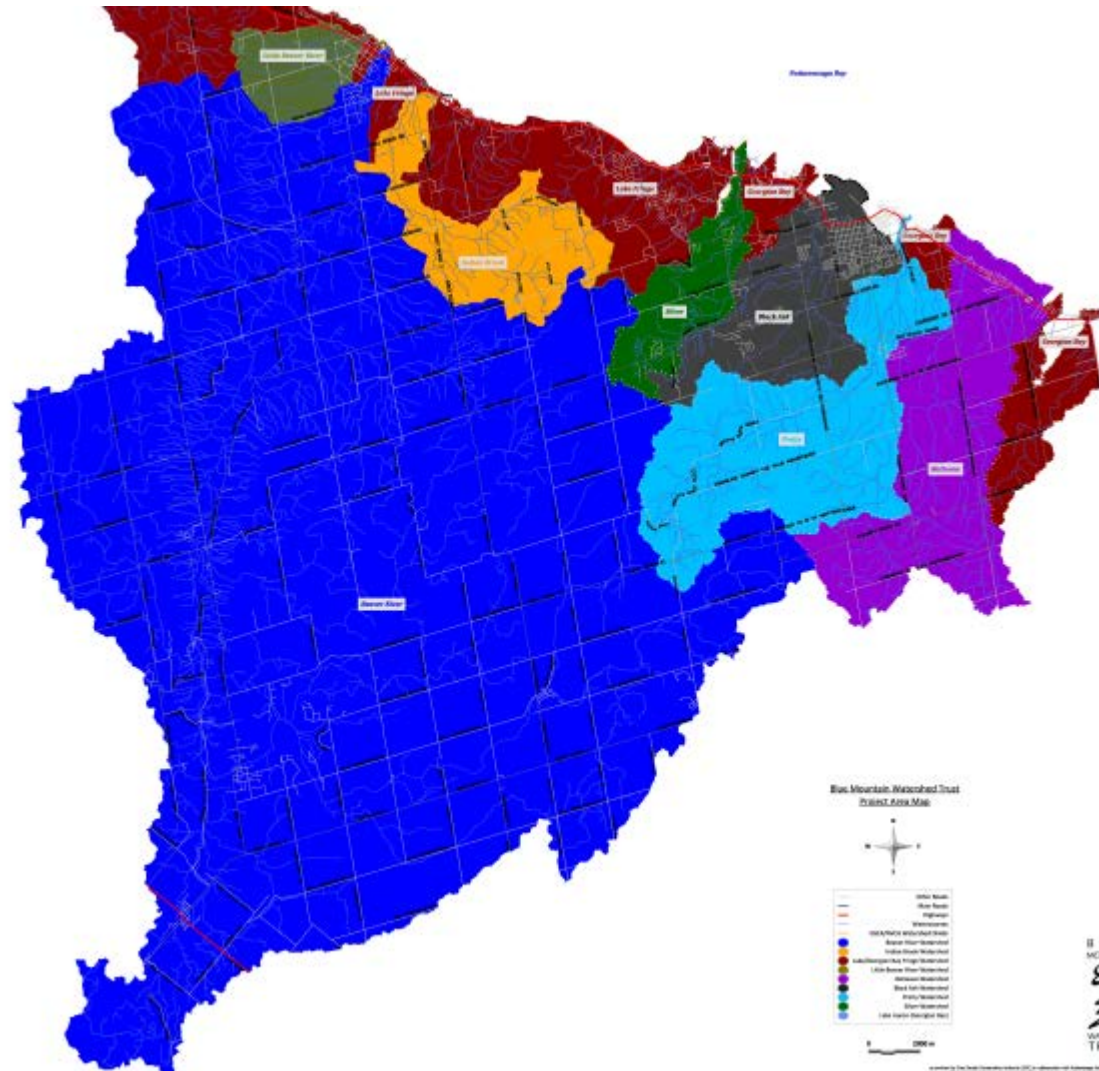
# BRWI Association Structure

- Yearly Membership
  - Fee: \$10, Students: \$5
- Management Committee
  - Elected yearly by the membership
  - Meets on a monthly basis
- MOU between BRWI and Grey Sauble Conservation Authority
  - This agreement covers volunteer insurance, training & educational materials, financial record administration, man power resources, permit and access facilitation & networking with other governmental operations relative to environmental opportunities/projects.
- Partnerships
  - Lions Club, Town of the Blue Mountains, Grey Sauble Conservation Authority & The Marsh Street Center





# Map of the Beaver River Water Shed



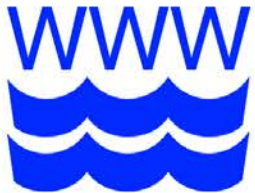
# Facts - Beaver River Water Shed

- Covers 235.1 sq. miles or 608.9 sq. km.
- Flows through The Town of the Blue Mountains and Grey Highlands.
- Contains a productive agricultural area producing a significant portion of Canada's apple crops.
- Contains one of Ontario's best preserved hard wood swamp eco systems.
- The Bruce Trail travels through the Beaver River Water Shed.
- A rare species of American Hart's tongue fern is found here.
- A recreation area for fishing, kayaking, canoeing, hiking and bird watching.





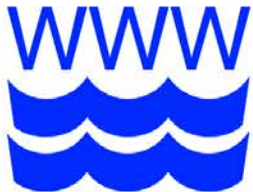
# What You Will Find...



# BRWI Projects

**Project site areas have been: Blue Mountain Sportsmans Club, Henry's Lake & Kolapore**

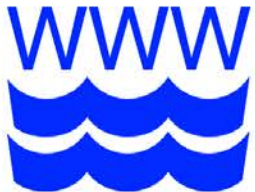
Project Task	Start Date	Finish Date	Task Description
Planning and project design	March, 2014	Sept., 2014	- Planning and design changes made based on people availability and site conditions.
Plant trees and shrubs and native grasses	May, 2014	May, 2014	
Stabilize stream banks with native trees and shrubs	May, 2014	May, 2014	- Volunteers unable to handle the planting of all trees; needed to hire a crew to get the work done; surplus trees from other sites added here
Remove part of old dam to drain ponded area	July, 2013	July, 2013	- Dam was removed last year to allow for site to stabilize/dry up





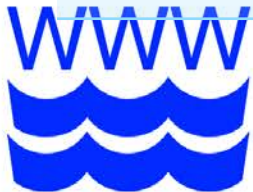
# BRWI Projects

Project Task	Start Date	Finish Date	Task Description
Remove debris from natural channel to encourage improved stream flow	August, 2014	August, 2014	- 8 man crew worked to remove in-stream debris and encourage a narrow/well defined channel
Construct new spawning beds in upwelling areas and install tree revetments, weirs and other stream rehab structures to create sinuosity	August, 2014	August, 2014	- Spawning/spring areas did not flush well this spring so it was decided not to install new gravel at this time; additional resources were used to stabilize the channel and encourage sinuosity and channel definition
Remove breakpoints caused by unnatural sediment deposition to encourage natural bed load movement to expose spawning substrate	August, 2014	August, 2014	- Break point was lowered by hand; appears to be remnants of old beaver dam



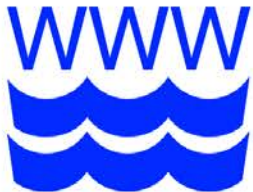
# BRWI Projects

Project Task	Start Date	Finish Date	Task Description
Install suitable spawning substrate in upwelling areas and stabilize with cedar logs	July, 2014	August, 2014	- Cover placed over spawning/spring area; small downstream channel was stabilized and narrowed with coir logs and cedar logs
Remove old dam to expose springs and natural channels		July, 2013	- Dam was removed last year to allow for planting this year
Stabilize stream banks with native grasses		July, 2014	- Site has stabilized nicely with native grasses as a result of removing dam last year
Use reclaimed woody materials, cedar logs or coconut rolls to provide in-stream cover and stream sinuosity		August, 2014	- Crew narrowed/stabilized channel with coir logs and reclaimed woody material; minor obstructions removed to encourage flushing of silts and sediment
Electro-fishing/fish surveys	July, 2014	July, 2014	- Volunteer completed re-certification; MNR loaned electro-fishing equipment; volunteers surveyed all 3 sites; water temperature loggers were purchased and placed downstream or target areas; Qualitative benthic samples were also collected



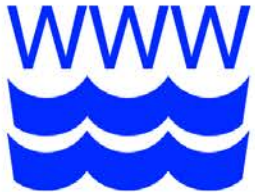
# Educational Events

- Guest Speakers
  - John Bittorf – Grey Sauble Conservation Authority at the annual AGM 2014
    - Topic: Thermal and Benthic Monitoring of the 3 project Areas
  - Arunas Liskaukas – The Ministry of the Environment at the annual AGM
    - Topic: Changes with Lake Huron and Georgian Bay over the last 30 years
- Lunch and Learn Seminar – Oct. 2013
  - Over 110 attendees from groups within the water shed representing a full cross section of involved groups of environmentalists, stakeholders and partners from the 3 levels of Government
  - Allowed the groups to be aware of each other, share thoughts and ideas, discuss achievement/goals and challenges/difficulties
- Video & Poster Displays
  - Beaver Valley Fall Fair & The Green Fair
  - The Great Lakes Seminar – representatives in attendance



# Future Plans

- ✓ Regular news letters to the membership
- ✓ Deputations to Town of the Blue Mountains & Grey Highlands
- ✓ Continued work on the three site areas
- ✓ Possible work on the Beaver River Tributary – which flows through and under Clarksburg in partnership with The Town of the Blue Mountains
- ✓ Expand membership
- ✓ Increase public awareness of BRWI





**THANK YOU FOR YOUR TIME**

