

PROJECT REPORT 2010

Project Title

Group: Mabou & District Community Development Association (Inverness South Anglers Association committee)

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Photo Files:

- **Attach photo files of the project as well as copies of any media articles about the project!**

PART A: Project Description (Please complete one for each watercourse)

Watercourse: Shea's Brook (MacQuarries Brook tributary)

Location: Mabou Watershed

Nearest Community: Brook Village

Road crossing (access point): Lake Ainslie Chapel Road near Miller Road

Map # (NS topo series 1:50.000): Lake Ainslie 11 K/3

Coordinates: Easting & Northing

Start: W61 17 992, N 46 02 914

Finish: W61 17.869, N 46 03 040

Habitat Issues this project is addressing: Debris jams and abandoned beaver dams were removed in 2009 so the stream could regain it's natural course and allow for the flushing of silt and sediment.

Project description and objectives:

- Specific restoration work done i.e. techniques used, scale of structures, hand or machine work etc.: All work was done by hand. We installed 6 structures in this 9 metre channel at 60 metre intervals. They were a combination of digger logs and deflectors. We had intended on more structures but held off on further work as the crew found what they believed were old head stones in the stream. The local parish was notified and they surmised it was an act of vandalism at some point in the past that caused them to be there. We had left it up to the Priest to decide on the outcome and he said the parish would look after recovery of the head stones. We will determine how to proceed further in the spring.

Project Design and Results In-stream Structures

- Design width: 9-10 metres
- Distance between structures: 60 metres
- Number and Type of Structures: 6 structures (digger logs and deflectors)
- Total length (meters) of stream restored: 360 m
- Area in Sq. meters: 3,500 sq m

Bank Stabilization and Riparian restoration:

- Length of bank: 4 m
- Height of bank: 2 m

- Width of watercourse: 10 m
- Method of stabilization: hand bank rock
- # trees planted:

Other habitat restoration measures incorporated into the project:

Watercourse: MacQuarries Brook (tributary to Shea's Brook)

Location: Mabou Watershed

Nearest Community: Brook Village / Hays River

Road crossing (access point): Lake Ainslie Chapel Road near Miller Road

Map # (NS topo series 1:50,000): Lake Ainslie 11 K3

Coordinates: Easting & Northing

Start: W 61 15 219, N 46 04 272

Finish: W 61 14 900, N 46 04 493

Habitat Issues this project is addressing:

There was an absence of spawning habitat due to debris jams, silt and sedimentation. The debris was cleared in 2008 and 2009 allowing the stream to regain its natural course and flush.

Project description and objectives:

- Specific restoration work done i.e. techniques used, scale of structures, hand or machine work etc.: Digger logs and deflectors were installed in this 5 metre channel at 30 metre intervals. This would prevent further erosion, improve the water quality and create new spawning habitat for salmon and trout.

Project Design and Results In-stream Structures

- Design width: 5 metres
- Distance between structures: 30 metres
- Number and Type of Structures 20 primarily digger logs with a few deflectors
- Total length (meters) of stream restored: 600 metres
- Area in Sq. meters: 3,000 sq m

Bank Stabilization and Riparian restoration:

- Length of bank: a few small areas with hand bank rock
- Height of bank:

- Width of watercourse:
- Method of stabilization:
- # trees planted:

Watercourse: More Brook

Location: Deepdale Rd

Nearest Community: Inverness

Road crossing (access point):

Map # (NS topo series 1:50.000):

Coordinates: Easting & Northing

Start: N 46 13 825, W 61 16 382

Finish: N 46 13 846, W 61 16 520

Habitat Issues this project is addressing: Lack of spawning habitat due to debris blockages, erosion, silt and sedimentation. We cleared the debris jams to allow migration of the fish and after flushing there is improved spawning habitat. The water quality is also improved.

Project description and objectives:

- Specific restoration work done i.e. techniques used, scale of structures, hand or machine work etc.: All work was done by hand (and power saw), installing 6 additional structures (digger logs) in 2010.

Project Design and ResultsIn-stream Structures

- Design width: 6 metres
- Distance between structures: 35 metres
- Number and Type of Structures: 6 digger logs
- Total length (meters) of stream restored: 200 metres
- Area in Sq. meters: 1,200 sq m

Watercourse: Miramichi Brook

Location: off old Mull River Road

Nearest Community: Brook Village / Roseburn

Road crossing (access point): Old Mull River Road 1.5km south of Route 252

Map # (NS topo series 1:50.000): Lake Ainslie 11K3

Coordinates: Easting & Northing

Start: N46 00 094, W61 17 949

Finish: N46 00 067, W61 17 406

Habitat Issues this project is addressing: Fish could not migrate due to dams, and very poor spawning habitat due to silt and sedimentation.

Project description and objectives:

- Specific restoration work done i.e. techniques used, scale of structures, hand or machine work etc.: Installed 20 structures (digger logs and deflectors) with some bank rock for bank stabilization.

Project Design and ResultsIn-stream Structures

- Design width: 6 metres
- Distance between structures: 35 metres
- Number and Type of Structures 20 digger logs and deflectors
- Total length (meters) of stream restored: 700 metres
- Area in Sq. meters: 4,200 sq m

Bank Stabilization and Riparian restoration:

- Length of bank: 3 m

- Height of bank: 1.5 m
- Width of watercourse: 6 m
- Method of stabilization: hand bank rock
- # trees planted:

PART B: Project Delivery (Overall project, not by watercourse)

Volunteer Contribution

- Describe how volunteers contribute to your *NSLC* Adopt-A-Stream project and to your organization in general. Our volunteers contribute in many ways. Our board attends meetings that are within our jurisdiction as well as outside. We try to cooperate with other groups in order to share successful experiences and knowledge. Some of our crew-members tend the watershed out of personal caring of what they do during not active (compensated) times. We have established a reputation that people in the community will call our crew when flooding, or an occurrence happens, where the people believe we may be able to help. We have volunteers that help with prizes for our annual fishing derby. There are also dedicated individuals that help with our stock enhancement. We coordinate very closely with other watershed groups as we share a common interest.
- Number of People volunteering on all aspects of the project: 20
- Total Volunteer Hours: at least 400 hours collectively would be conservative
- Approximate breakdown of roles
 - Management / Supervision: to plan a direction and keep the group on course. To communicate with the crew and provide them with the tools necessary to perform their work.
 - Labour: A reliable, quality conscience, crew who believe in the task they do for improvements to our watershed.
 - Other: DFO Habitat for guidance, direction and expertise, NS Fisheries

Paid Crew

- Number of workers: 3
- Weeks of work: 18

Other Information

- List ALL other project sponsors and contributions:
 NSSA Adopt-A-Stream, ASCF, DFO Habitat Antigonish, NS Fisheries, NS Inland Fisheries, Fraser's Mills Hatchery, Mabou & District Community Development Association, Mabou River Inn, Archie's Esso Mabou, Mabou Freshmart, Cove Ban Electrical, Mabou Harbour Coastal Management & Planning Committee, and a number of local contributors.

- Please describe any other additional activities undertaken to support the project (education, promotion, population assessments etc.): We had news articles published in the local newspaper (the Inverness ORAN), our 2nd Annual Fishing Derby June 6/10, our Watershed Quarterly newsletter to the community.
 - General observation of the watershed year round and discussion with anglers throughout the season.
 - Water quality analysis & sedimentation sampling by Mabou Watershed CAMP Group
 - Water quality monitoring and sedimentation sampling for 8 weeks during summer of Mabou Harbour, Shea's Brook, Glendyre Brook, and Miramichi Brook.
 - Stocking – June 4th – Fishing Derby
 - May 4th - 60 Brood stock, approx 220 kg sea run trout 8-12"
 - June 15th – 200 yearly and 20,000 fry

- Include photos of the project as well as copies of any media articles about the project

- Please describe any other additional activities undertaken to support the project (education, promotion, population assessments etc.): We use our Fishing Derby to promote our activities and sport fishing in general. We actively communicate to local people the improvements and successes that people are having. We have started to actively promote fly-fishing and hope to offer some instruction in the upcoming season to increase the level of participation.

