



Group: INVERNESS SOUTH ANGLERS ASSOCIATION
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PROJECT BRIEF:

PART A: Project Description

Watershed(s): Mabou and Inverness

Watercourse(s): Mabou Watershed: North East Mabou River, Big and Little Shea's Brook, Rankin's Brook, Glendyer Brook,

Inverness Watershed: Broad Cove River, Fraser's Brook, More Brook

Project description and objectives:

- What habitat issues is this project is addressing?
 - Restoration and maintenance of the continuity of fish access/migration
 - Restoration and enhancement of spawning habitat
 - Restoration and enhancement of holding capacity
 - Water quality improvement
- Specific restoration work done this year i.e. techniques used, scale of structures, hand or machine work etc:
 - Removal of debris jams, beaver dams and flood deposits
 - Installation of digger and deflector logs
 - Bank rock stabilization
 - All work done by hand

Project Design and Results (Please complete one for each watercourse)

SEE MAP #1

Project Design and Results

Watercourse: Mac Isaac's Brook
Watershed: Inverness
Location: Strathlorne / Foot Cape
Nearest Community: Inverness

Road Crossing / Access Point: Route 19 & Foot Cape Road
Map # (NS Topo Series 1:50,000): Lake Ainslie 11 K/3
Coordinates: See Map #1 – Item 1
N 46 11 033, W 61 17 459

Debris Removal

- Description: Debris and Beaver Dam Removal
- Total Length (meters) Cleared: 15 meters
- Width of Watercourse: 6 meters
- Area in Sq. Meters Restored: 90 sq. meters

Project Design and Results:

Watercourse: Fraser's Brook
Watershed: Inverness (flows into Broad Cove River)
Location: Foot Cape Road
Nearest Community: Foot Cape (near Inverness)

Road Crossing / Access Point: Foot Cape Road
Map # (NS Topo Series 1:50,000): Lake Ainslie 11 K/3
Coordinates: See Map #1 – Item 2
Start- N 46 11 033, W 61 17 459
Finish- N 46 11 772, W 61 19 149

In Stream Structures

- Design Width: 4 meters
- Distance Between Structures: 24 meters
- Number & Type of Structures: 4 – Digger Logs
- Total Length (meters) of Stream Restored: 250 meters
- Area in Sq. Meters: 1000 sq. meters

- Design Width: 3 meters
- Distance Between Structures: NA
- Number & Type of Structures: 1 – Deflector Log
- Total Length (meters) of Stream Restored: NA

Area in Sq. Meters: NA

Project Design and Results:

Watercourse: Broad Cove River
Watershed: Inverness
Location: Glenville (downstream from Glenora Distillery)
Nearest Community: Glenville (between Mabou & Inverness)

Road Crossing / Access Point: Route 19
Map # (NS Topo Series 1:50,000): Lake Ainslie 11 K/3
Coordinates: See Map #1 – Item 3

Debris Removal

- Description: Removed 2 significant barriers due to tree windfalls
- Total Length (meters) Cleared: 100 meters
- Width of Watercourse: 5 meters
- Area in Sq, Meters Restored: 500 sq. meters

SEE MAP #2

Project Design and Results:

Watercourse: Rankin's Brook
Watershed: Mabou Harbour
Location: Rankinville Road (300 meters upstream)
Nearest Community: Mabou
Road Crossing / Access Point: Rankinville Road & Beaton Road
Map # (NS Topo Series 1:50,000): Lake Ainslie 11 K/3
Coordinates: See Map #2 – Item 1

Debris Removal

- Description: Debris and Windfall Removal Upstream from Perched Culvert
- Total Length (meters) Cleared: 300 meters
- Width of Watercourse: 1-2 meters
- Area in Sq, Meters Restored: 500 sq. meters

Project Design and Results:

Watercourse: MacNeil's Brook
Watershed: Mabou Harbour
Location: Rankinville Road NE of Southwest Ridge Road

Nearest Community: Mabou

Road Crossing / Access Point: Rankinville Rd & Southwest Ridge Rd

Map # (NS Topo Series 1:50,000): Lake Ainslie 11 K/3

Coordinates: See Map #2 – Item 2

Debris Removal

- Description: Large beaver dam (15 meters X 2 meters) cleared by DOT
- Total Length (meters) Cleared: 100 meters
- Width of Watercourse: 1-2 meters
- Area in Sq. Meters Restored: 200 sq. meters

SEE MAP #3

Project Design and Results:

Watercourse: Little Shea's Brook

Watershed: Mabou Harbour

Location: Upstream from Shea's Brook junction

Nearest Community: Brook Village

Road Crossing / Access Point: Old Mull River Road

Map # (NS Topo Series 1:50,000): Lake Ainslie 11 K/3

Coordinates: See Map #3 – Item 1

In Stream Structures

- Design Width: 2-3 meters
- Distance Between Structures: 20 meters
- Number & Type of Structures: 7 Digger Logs
- Total Length (meters) of Stream Restored: 1000 meters new structures and debris removal
- Area in Sq. Meters: 2500 sq. meters

Project Design and Results:

Watercourse: Big Shea's Brook

Watershed: Mabou Harbour

Location: Upstream from junction with Mull River

Nearest Community: Brook Village

Road Crossing / Access Point: Route 252 & Old Mull River Road

Map # (NS Topo Series 1:50,000): Lake Ainslie 11 K/3

Coordinates: See Map #3 – Item 2

Bank Stabilization & Riparian Restoration

- Length of Bank: 4 Sections X 3 meters each at 50 meter intervals
- Height of Bank: 1 meter
- Width of Watercourse: 5 meters
- Method of Stabilization: Rock placement by hand
- Length of Stream Restored: 150 meters
- Area: 750 sq. meters

SEE MAP #4

Project Design and Results:

Watercourse: More Brook (flows into Broad Cove River)
 Watershed: Inverness
 Location: Deepdale
 Nearest Community: Inverness

Road Crossing / Access Point: Deepdale Road
 Map # (NS Topo Series 1:50,000): Lake Ainslie 11 K/3
 Coordinates: See Map #4 – Item 1
 N 46 13 491, W 61 16 483

Debris Removal

- Description: Removal of 2 large beaver dams, 1 @ 5 meters & 1 at 20 meters wide
- Total Length (meters) Cleared: 25 meters
- Width of Watercourse: 2 meters
- Area in Sq. Meters Restored: 50 square meters

Project Design and Results:

Watercourse: More Brook (flows into Broad Cove River)
 Watershed: Inverness
 Location: Deepdale
 Nearest Community: Inverness

Road Crossing / Access Point: Deepdale Road
 Map # (NS Topo Series 1:50,000): Lake Ainslie 11 K/3
 Coordinates: See Map #4 – Item 2
 Start N 46 13 498, W 61 13 510
 Finish N 46 13 510, W 61 16 598

Bank Stabilization & Riparian Restoration

- Length of Bank: 8 Sections (4 @ 3 X 1 meters, 3 @ 2 X 1 meters, 1 @ 5 X 1 meters)

- Height of Bank: 1 meter
- Width of Watercourse: 2 meters
- Method of Stabilization: Rock placement by hand
- Length of Stream Restored: 1200 meters
- Area: 2400 sq. meters

SEE MAP #5

Project Design and Results:

Watercourse: Glendyer Brook
 Watershed: Mabou Harbour
 Location: Glendyer
 Nearest Community: Mabou

Road Crossing / Access Point: Smithville Road & Route 252
 Map # (NS Topo Series 1:50,000): Lake Ainslie 11 K/3
 Coordinates: See Map #5 - Item 1
 Start N 46 06 998, W 61 18 916
 Finish N 46 07 013, W 61 18 606

Bank Stabilization & Riparian Restoration

- Length of Bank: 8 Sections (each 2-3 meters X 2 meters)
- Height of Bank: 1 meter
- Width of Watercourse: 2 meters
- Method of Stabilization: Rock placement by hand
- Length of Stream Restored: 450 meters
- Area: 900 sq. meters

SEE MAP #6

Project Design and Results:

Watercourse: Northeast Mabou River
 Watershed: Mabou Harbour
 Location: Northeast Mabou Road
 Nearest Community: Mabou

Road Crossing / Access Point: Northeast Mabou Road
 Map # (NS Topo Series 1:50,000): Lake Ainslie 11 K/3
 Coordinates: See Map #6 – Item 1
 Start N 46 05 507, W 61 23 448
 Finish N 46 05 492, W 61 23 475

Debris Removal:

- Description: Dug channel through flood deposited gravel that caused roadway to flood. Natural flushing then restored channel to its original course.
- Total Length Cleared: 16 meters
- Width of Watercourse: 3-4 meters
- Area in Sq, Meters Restored: 60 sq. meters

Other habitat restoration measures taken:

- AAS training exercise in digger log installation for sister organizations
- Support resources, information and encouragement for property owners to care for their own after our initial interventions

Overall Project Results

- Total Number and Type of Structures: 11 digger logs
- 1 deflector
- 16 sections bank rock

- Total length (meters) of stream restored: 3606 meters
- Total Stream Area in Sq. meters: 8950 sq. meters
- Total Riparian Area in Sq. meters: 75 sq. meters
- Total Number of Trees planted: none

Past Work & Future Plans:

Has habitat work been done on this watercourse in previous years? How much? Is further additional work planned or anticipated ?

Between 1996 and 2004, members of ISAA, working with the Municipality of the County of Inverness and the Judique, Port Hood, Mabou and Inverness Community Development Associations, assessed the environmental remediation needs of our watersheds and began addressing these identified needs on a community by community basis. ISSA was formed in 2004 to address the collective restoration and enhancement needs of the four communities that constitute our Municipal subregion.

Working with Adopt-A-Stream, the Atlantic Salmon Conservation Foundation, other philanthropies and a myriad of Federal, Provincial and Municipal government partners we have accomplished a great deal over the past two decades, many noteworthy successes

and no outright failures. For instance it took five years for the Mabou & District Community Development Association, ISAA and its partners to remediate the problems of dairy and cattle point source watershed pollution in the Mabou watershed. This effort has resulted in a thriving Mabou Oyster community industry.

To date ISAA has completed and maintains a total of 16 kilometers of small scale habitat interventions that sustains trout and salmon productivity in approximately 260 square kilometres of Mabou and Inverness watershed.

As well we have participated in continuous stocking and stock enhancement, aquatic monitoring and recreational fishing expansion programs since our inception.

This year, 2015, holds much promise for our partnership. We have applied for additional funds to maintain what we have already accomplished and expand our geographical reach to include the Graham's River, Judique, and the Captain's River, Port Hood to our work portfolio in 2016. (see our project funding application for 2015)

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

Volunteer Contribution

Describe how volunteers contribute to your Adopt-A-Stream project and to your organization in general.

ISAA volunteers and donors provided 52.7% and AAS provided 47.3% our 2014 project.

ISAA volunteers have been working since 2004 with AAS funds and knowledge to fulfill our missions. The success of our partnership has been instrumental in attracting the long term interest and investment of other partners. They include the Atlantic Salmon Conservation Foundation, the Recreational Fisheries Conservation Partnership Program, and other non-governmental philanthropies.

Number of People volunteering on all aspects of the project:

- 36 people contributed a total of volunteer 694 documented hours to realizing this past year's project.

Approximate breakdown of roles:

- Management / Supervision/Labour: 85%
- Fundraising & Gladhandling: 15%

Paid Crew

- Number of workers: 2
- Total Weeks of work: 14

Other Information

List other project sponsors and contributions:

- 2014 Fishing Derby Participants (\$365)
- Property Owners of the sites improved (\$5,000 for project materials)

Please describe any other additional activities undertaken to support the project (education, promotion, population assessments etc.):

- Annual Fishing Derby
- Annual Trout & Salmon Stocking
- Salmon broodstock harvest for the NS Salmon Enhancement program
- Participation in Provincial and Federal symposia related to community management of habitat, fish stocks, and invasive species.
- Participation in Community Aquatic Management Programs
- Delivery of training and recruitment 'hands on' exercises
- Participation in NLSC promotions

IMPORTANT -

**PLEASE SEND PHOTOS AS SEPARATE FILES NOT JUST EMBEDDED IN THE REPORT.
These may be also be used for publication and promotion purposes.**

SEE ATTACHED

Please also include copies of any media articles about the project

SEE ATTACHED