



Habitat Restoration Project 2011 - Duffins Creek: Pickering, Ontario -

Greenwood Conservation Area Rodar Park Log Revetment

Habitat Project Lead: *Ontario Federation of Anglers and Hunters*

Habitat Project Funding Lead: *TD Friends of the Environment Foundation*

Date Completed: *August 10, 2011*

This summer, the Lake Ontario Atlantic Salmon Restoration Program partnered with the Toronto and Region Conservation Authority (TRCA) to undertake a large scale bank stabilization project along Duffins Creek in the Greenwood Conservation Area, Rodar Park. One Georgian College co-op student helped for 26.5 hours alongside OFAH, TRCA and Community Stream Steward Program staff to complete this project. Staff first installed a sediment fence to stop any erosion caused by working in the water, preventing any harmful alterations to fish habitat. The eroded stream bank was built back up with large woody material including root wads (stump with roots attached) anchored to the bank with aircraft cable (revetment) and round river stone to fill in the smaller spaces. The revetment technique was used because it is a soft (rather than all rock) approach to bank stabilization, the root wads mimic natural root structures found in less disturbed areas. Also over time they allow the stream bank to trap sediment during high water rain events and build the bank up again. The work took place from August 4 to August 10, 2011 and the sediment fence was left in for another month to collect sediment as the newly restored bank settled. This project improved Atlantic Salmon habitat by providing shade under overhanging root wads, stabilizing the stream bank to reduce erosion and



Figure 1: Revetment site before restoration with eroded banks.

visually illustrate the importance of habitat restoration to community members that hike these public lands. The permitting and planning process for projects like this is very time consuming and involves design plans, drawing, permits to work in the water and the purchase of or rental of heavy equipment.



Figure 2: OFAH and TRCA crews anchoring root wads along the stream bank.



Figure 3: Revetment site downstream photo nearly completed.