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Parlow Creek Shoreline Restoration

Parlow Creek is located in the Two Creeks Conservation Area, Morrisburg, Ontario and is part of the Doran Creek Coastal wetland, a Provincially Significant Wetland. Historically, bio-solids were applied to this parcel (south) and a plantation of soft maple and alder dominate the south half of the park. Erosion and migration of sediments created a blockage to flow and reduced the creek's ability to adequately drain the surrounding landscape. Furthermore, a sharp 90-degree angle in the creek created an area of flow constriction, consequent bank failures and erosion issues. Soil deposits in lower Parlow Creek were noted to be partially blocking stream flow and furthering the issue of erosion and deposition.

Fish access is limited during low spring flow conditions, Grass Pike and Muskellunge are known to occur in this area, and Northern Pike are known to spawn in some sections of Parlow Creek. Access to grassy banks along tributaries during spring run-off provides ideal spawning habitat for species like Pike and Muskellunge.

Project milestones include 300 meters of restored stream on both banks of Parlow Creek. Soil deposits were re-graded and stabilized with coir/straw mats preventing erosion and restoring natural channel flow. Native grasses were planted at the bottom of the bank and native shrubs at the top of the bank to improve fish spawning habitat.

- Restoration of natural channel flow
- Restoration of fish access & spawning habitat
- Native plantings along shoreline



Stabilizing banks with straw mats



After

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