**RAPID STREAM ASSESSMENT (RSAT)**

**Date:** Nov 2nd, 2024 **Site:** McDonalds River **Crew:** Kim, Rory, Liam, Owen

**Location:** Reach 1 **GPS:** N: 46.67096**0** W: -64.05241**0**

**Weather Description:** Partly Cloudy 3०C **Recorder:** Kim Curran



|  | **Excellent** | **Good** | **Fair** | **Poor** | **Points** |
| --- | --- | --- | --- | --- | --- |
| **Channel Stability** | **9 - 11** |  **6 - 8** |  **3 - 5 0 - 2** | **8** |
| **Scour / Deposition** |  **7 - 8** |  **5 - 6** |  **3 - 4 0 - 2** | **7** |
| **Instream Habitat** |  **7 - 8** |  **5 - 6** |  **3 - 4 0 - 2** | **8** |
| **Water Quality** |  **7 - 8** |  **5 - 6** |  **3 - 4 0 - 2** | **8** |
| **Riparian Conditions** |  **6 - 7** | **4 - 5** |  **2 - 3 0 - 1** | **5** |
| **Biological Indicators** |  **7 - 8** |  **5 - 6** |  **3 - 4 0 - 2** | **7** |
|  |  |  | **Total:** | **43** |

 **Stability Rankings: <20 = LOW 20 - 35 = MODERA TE <35 = HIGH**

**Channel Dimensions (Measured / Estimated)**

**Bankfull Width (m):** 2.29 m **Bankfull Depth (m):** 0.366 m

**Wetted Width (m):** 1.46 m  **Wetted Depth (m):** 0.0254 m

**Gradient:** downhill **Entrenchment (m):** 6.4 m

## **Substrate (Pool):** rock, cobble silt, sediment **Substrate (Riffle):** cobble, pebble, sand

## **Straight / Sinuous:**  sinuous  **Bend Radius:** 5.5 m

## **Bank Height (m):** 0.366 m **Bank Angle (0):** 45**0**

**Bank Material:** clay, rock, sand, shrub/tree roots **Vegetation:** grass, moss, shrubs, trees

**Pool - Riffle Spacing (m):** 5.03 m **Woody Debris:** yes

## **Channel Hardening:** 80% hardening with some sediment noted near old blockages that were removed.

## **Channel Disturbance:** Culvert at Rafferty Road heading downstream to estuary.

## **Distance Walked:** 2316.5 m **Photos Taken:** #0007 - #0096

**Comments:** Blockages were removed from an active dam site by notching repeatedly to discourage the beavers. Once there was no sign of activity the blockage was widened to allow fish passage. Riparian zone around dams drained and the trees, shrubs and grasses began to grow and flourish. 3-4 pine trees may need to be removed as they are brown. This area will be checked in the spring 2025 for blockages.