**RAPID STREAM ASSESSMENT (RSAT)**

**Date:** Aug 29th, 2024 **Site:** Foxley River East **Crew:** Kim, Karalee, Liam, Amelia, Avery

**Location:** Reach 2 **GPS:** N: 46.68021**0** W: -64.00088**0**

**Weather Description:** Partly Sunny 4०C **Recorder:** Amelia DesRoche



|  | **Excellent** | **Good** | **Fair** | **Poor** | **Points** |
| --- | --- | --- | --- | --- | --- |
| **Channel Stability** | **9 - 11** | **6 - 8** | **3 - 5 0 - 2** | | **6** |
| **Scour / Deposition** | **7 - 8** | **5 - 6** | **3 - 4 0 - 2** | | **3** |
| **Instream Habitat** | **7 - 8** | **5 - 6** | **3 - 4 0 - 2** | | **5** |
| **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** | | **6** |
|  |  |  | **Total:** | | **33** |

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

# **Channel Dimensions (Measured / Estimated)**

**Bankfull Width (m):** 2.74 m **Bankfull Depth (m):** 1.6 m

**Wetted Width (m):** 2.4 m  **Wetted Depth (m):** 0.11 m

**Gradient:** downhill **Entrenchment (m):** 6 m

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

## **Straight / Sinuous:** sinuous **Bend Radius:** 3.65 m

## **Bank Height (m):** 0.54 m **Bank Angle (0):** 80**0**

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

**Pool - Riffle Spacing (m):** 11 m **Woody Debris:** yes

## **Channel Hardening:** 40% hardening with sediment at beginning of reach due to culvert removal and span bridge that was installed Sept 2023.

## **Channel Disturbance:** Culvert replaced with span bridges at beginning and end of Reach 2.

## **Distance Walked:** 128 m m **Photos Taken:** #9938 - #9949

**Comments:** Span bridges were installed in 2023 at start of reach and 2024 at the end of reach. Sediment was noted at the start of the reach, however, now that the connectivity of the stream has been corrected the sediment that was built up around the crushed culvert has started working its way to the sediment trap down stream.