

# Green Infrastructure in Rural Drainage

## Case Study: Woolvett Drain

**Municipality:** Township of Warwick

**Drainage Superintendent:** Andrew Maver

**SCRCA Project Funding:** \$3382.50

**Contractor:** Van Bree Drainage and Bulldozing Limited

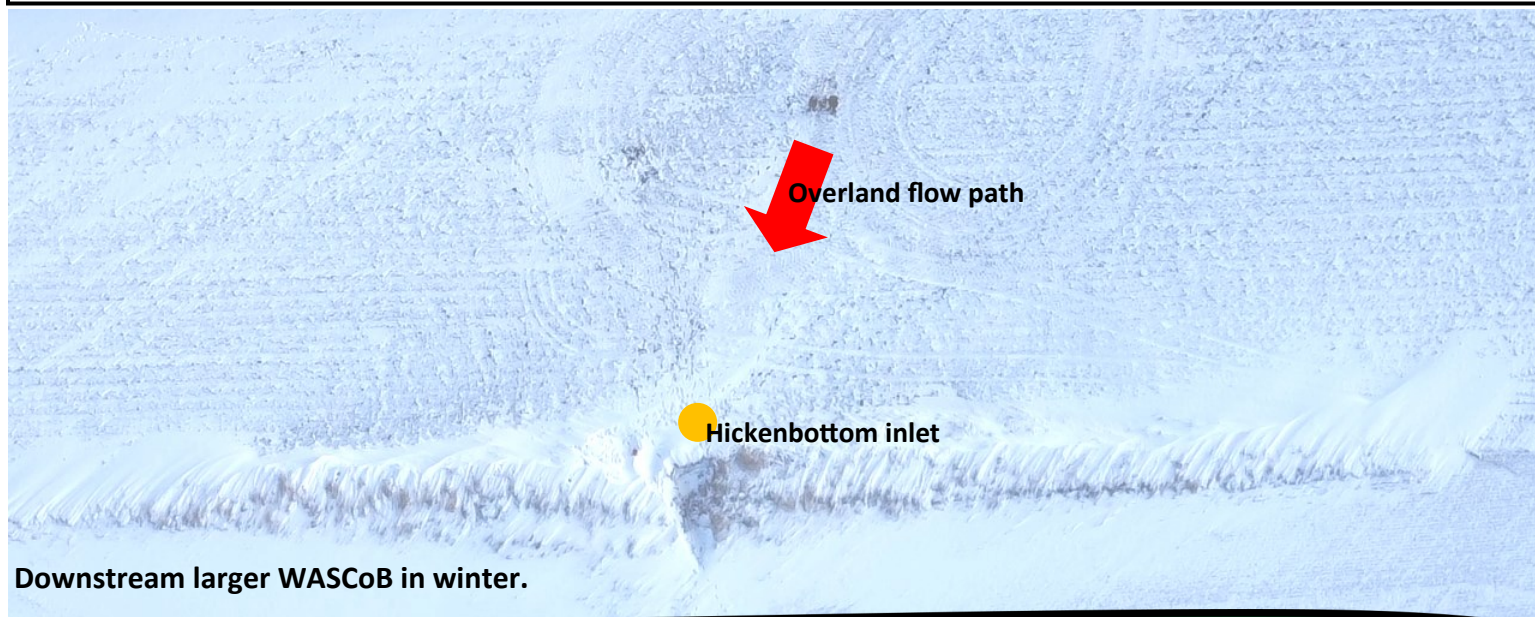
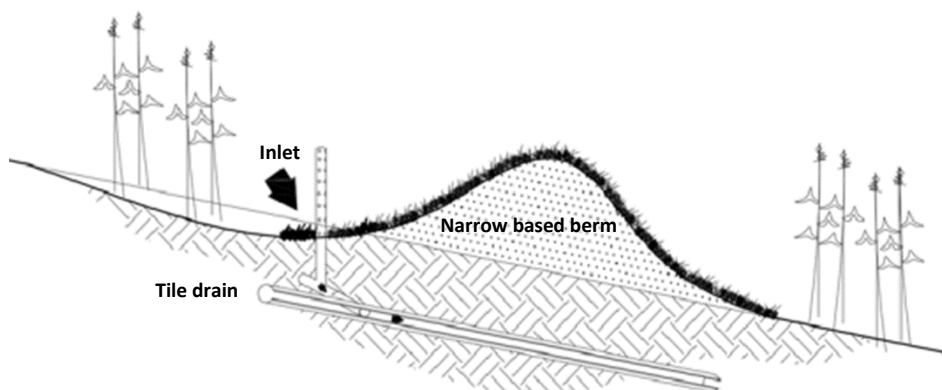
**Objective:** Reduce field erosion and sediment movement from overland flow.

**Best Management Practices:** Water and Sediment Control Basins (2)

### Project Summary

The landowners were experiencing ponding in their farm field even though there was an existing closed municipal drain. By increasing the size of the drain and installing 2 Water and Sediment Control Basins (WASCoBs), the system was able to collect and handle more water.

A WASCoB is a type of earthen berm that will slow down water travelling over the landscape, allow sediment to settle out, and then slowly release the water via a raised inlet (hickenbottom) to the closed drain buried underground (see diagram to the right). The two berms held back water in strategic places along the Woolvett Drain, giving it time to enter the drain.





# Case Study: Woolvett Drain WASCoBs

## PROJECT LAYOUT

Flow direction

Woolvett Drain

Downstream larger WASCoB

Upstream smaller WASCoB

Overland flow direction

The WASCoB runs perpendicular to the overland flow path

Overland flow direction

The earthen berm ponds the water temporarily, allowing sediment and nutrients to settle before the water empties into a hickenbottom that's connected to the closed municipal drain below.

*If you are experiencing erosion problems in a municipal drain on your property and are Interested in implementing a Green Infrastructure project please contact:*

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Hickenbottom inlet

