

Drainage Act & Conservation Authorities Act Protocol

Sediment and Erosion Control

“A Drainage Superintendents Perspective”

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Background

- ▶ Wray Wilson
- ▶ Drainage Superintendent Since 1989
- ▶ Township of Howick – County of Huron
- ▶ DSAO Board Member
- ▶ Representing DSAO on the DART Committee

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Sediment and Erosion Control

- ▶ Discussion Outline
 - Responsibilities
 - Administrative Procedures
 - Examples

Sediment and Erosion Control

- ▶ Responsibilities Under the Drainage Act
Maintain and Repair
- ▶ Environmental Responsibilities
 - Fisheries Act
 - Endangered Species Act
 - Species At Risk Act
 - Conservation Authorities Act

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Sediment and Erosion Control

- ▶ How Work Proceeds Administratively
 - Communication
 - Annual Work Plan
 - Drain Maintenance or Repair Notification Form
 - Permit May Be Required

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Sediment and Erosion Control

▶ Work Activities – Does It Make Sense?

- Is the Work Permitted By the Report?
- Silt Fence Across a River?
- Hauling Rip Rap?
- Hauling Sediment Away?

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Sediment and Erosion Control

▶ Maintenance & Repair – Erosion Control

- Appropriate Equipment
- Appropriate Conditions
- Best Solution – In and Out Quickly

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Sediment and Erosion Control

▸ Controlling Sediment

- Types
- Construction Methods

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Sediment and Erosion Control

▸ In Stream Sediment Control

- Silt Fence
- Straw Bales
- Sand Bag Barriers
- Excavated Sediment Trap

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Silt Fencing
During Construction

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After Construction

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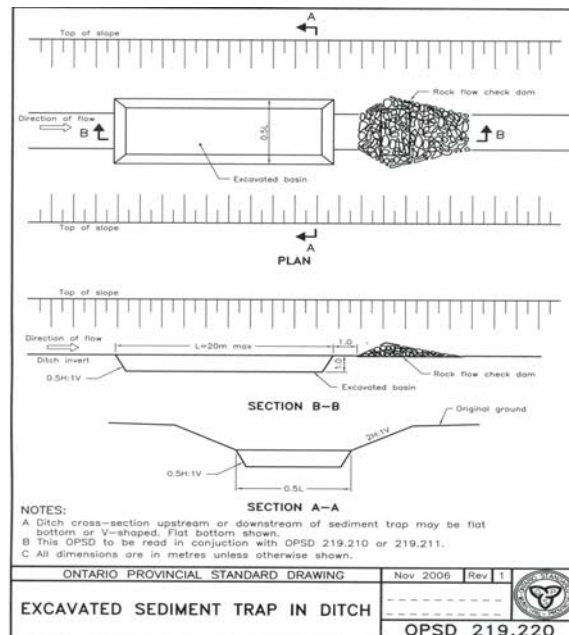


Rip Rap
During Construction



Rip Rap
After Construction

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Sediment Pool

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Tile Outlet
During Construction



Tile Outlet
After Construction

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Sediment and Erosion Control

▸ Stream Bank Stabilization

- Rip Rap
- Geotextiles
- Seed Cover

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Surface Water Inlet
During Construction

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Figure 26 – Typical Riparian Vegetation & Buffer Strips



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Sediment and Erosion Control

- ▶ Acknowledgement
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Sediment and Erosion Control

Questions?