



Land Drainage Conference 2025



October 16 & 17



Delta Hotels Guelph Conference Centre



Sediment and Erosion Control

Proper controls
Proper location
Properly installed

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Today's Talk



- What the monitoring team is seeing across the Region with respect to Sediment and Erosion Controls.
 - Our region consists of Ontario, the Prairies and the Arctic
 - 300 to 600 inspections are conducted each year
 - Docks, boathouses, water crossings, dredging, drains, mines and any other work, undertaking or activity in or around water is what we inspect
 - 70 percent of the inspections have sediment and erosion control issues, but it appears to be getting better.
 - I (and the team) like to use a commonsense approach.
 - The most expensive controls are not always the best
 - “keep the dirt/soil out of the water” as much as possible
- Proper controls, in proper locations, properly installed

Improper Installations



- Fencing not keyed into the ground properly
- Check dam installation increasing erosion of the bank
- Large footprint of exposed soils

Improper installations



- Coir logs are not keyed into the ground
- Coir log ends are not overlapped/connected properly



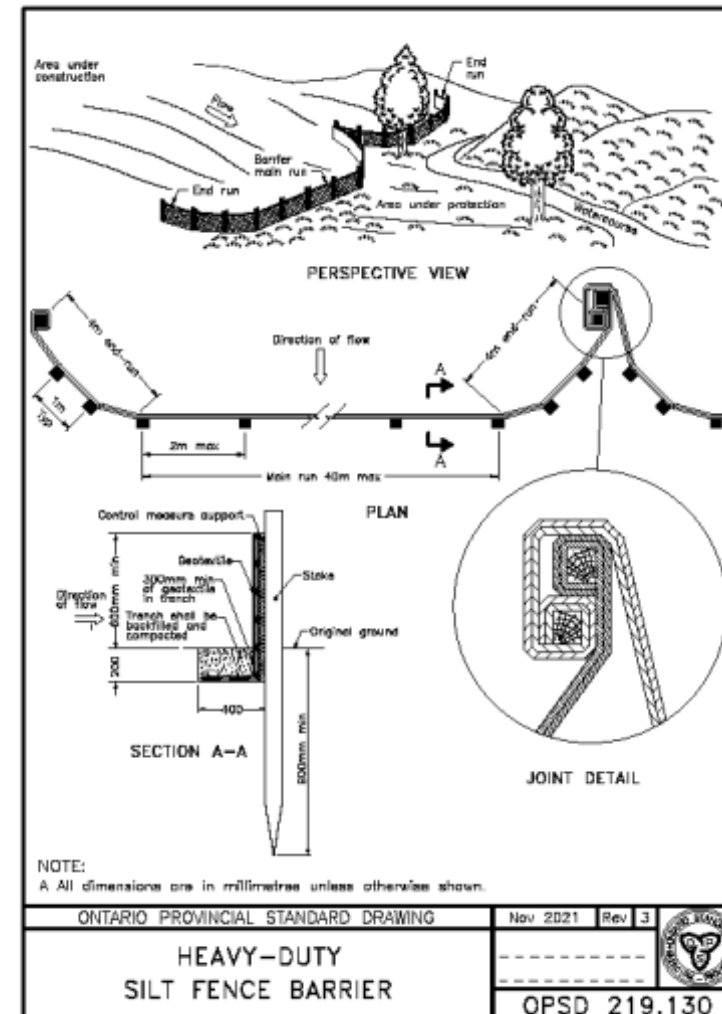
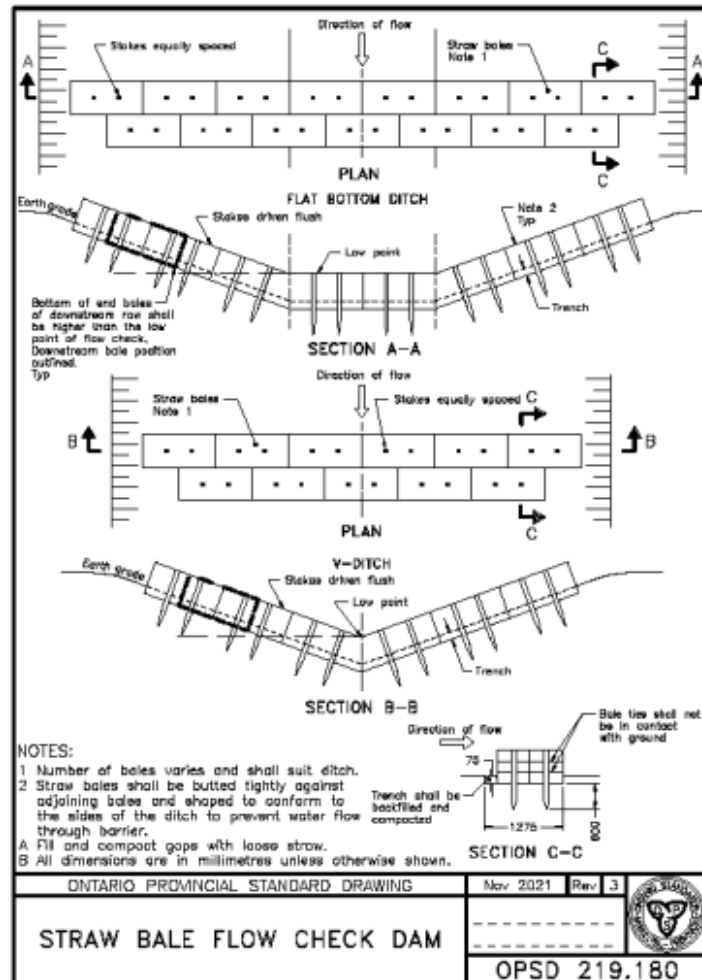
- Sediment fencing is not keyed into the ground
- Sediment laden water can make its way back into the stream

A few other issues we see



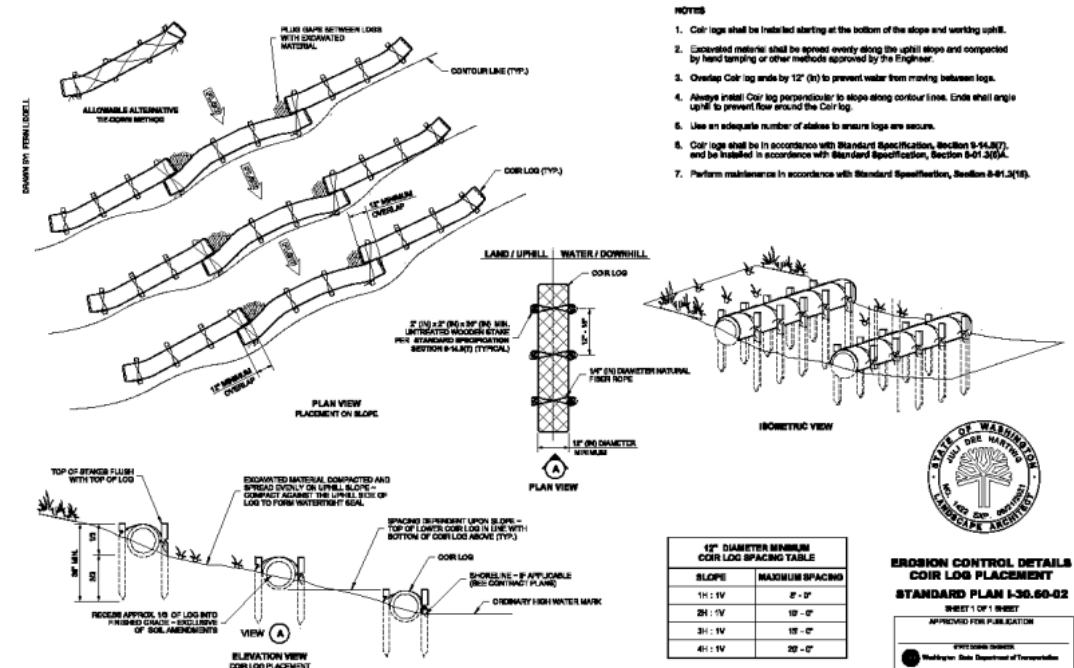
- Sediment curtain was installed directly across the river
- Sediment fencing installed along the drain with portions in the water

The Standards: Straw bale check dams and Sediment Fencing



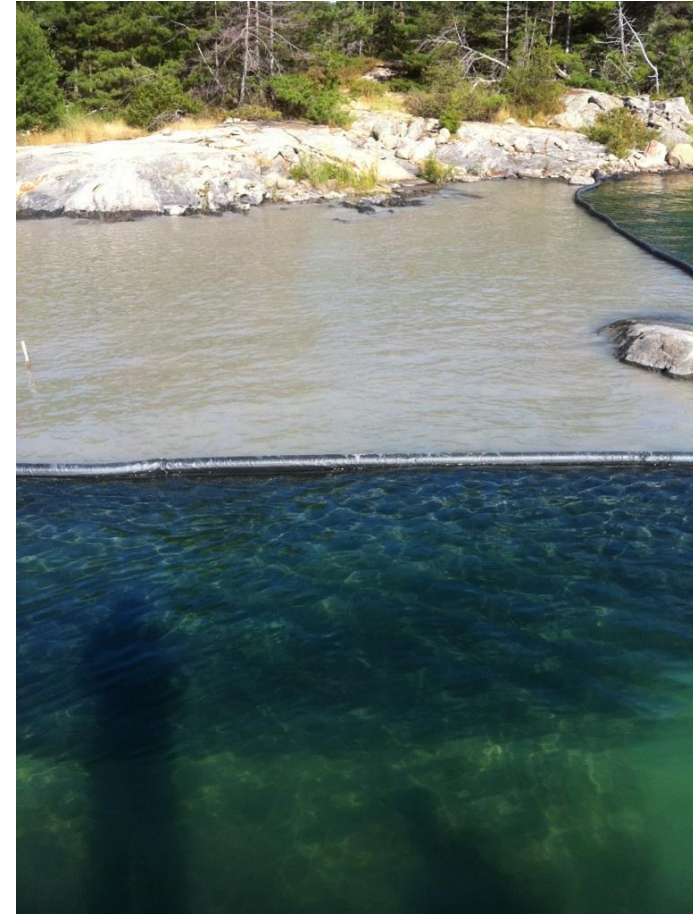
Coir Logs

- Keyed in
- Staked in place
- Overlap the end



Proper installs do work

- Options that can help your project with soil management
 - Leaving buffer zones between exposed soils and water course
 - Brushing the banks instead of striping right down to the soil
 - Breaking larger projects down and only clearing what you need at that time.
- Keeping soil out of the water means less maintenance



Not exactly the right install but in a pinch...

- Clay/Soil cofferdam. I would have covered it with plastic and used pea gravel bags to hold it down.
- Coir logs aren't designed for this use but if it contains sediment...



Good examples



- Fencing didn't work for this site, so they covered the slope
- System was flashy so they installed sheet steel behind the cofferdam



Road Crossing on a drain.



The Good and Bad: Keep the Dirt out of the water. Proper controls, in proper locations, properly installed



Something to think about



- Inspection date Dec 22.
- Entire crew had left for Christmas.



- No staff would be back on site until Jan 15th.
- Heavy rain was forecast for Christmas day.

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Questions?



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Thank you!

