

Bentofix SWM Pond Liner

project name: Mayfield Road
Widening Project

location: Brampton, Ontario

deployment date: 2009

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project case history

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Challenge

Part of the Mayfield Road Widening Project in Brampton, Ontario, required new Storm Water Management Ponds to be installed on both the north side and south side of Mayfield Road in various locations along the lengthy widening project.

One of the challenges was to provide a lining material which could be deployed during the winter months as well as liner that could be deployed by the general contractor with ease.

Solution

The engineer, Stantec, and two contractors (at two separate locations along the road widening project), Metric & Graham Brothers, selected a Geosynthetic Clay Liner (Bentofix) made locally in Barrie, Ontario to meet the challenges of the project. Soil conditions during construction showed no signs of suitable clay. A GCL requires no deployment experience nor does it require any type of welding equipment as required by plastic membranes.

Special Note

The cover soil used over the GCL was the same soil removed during the hole cavity construction of the pond.



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- GCLs require no deployment experience.
- Deployment rates range from 2,000 sqm per day to 10,000 sqm per day depending on the size and shape of a pond.

- Construction of compacted clay liners (CCLs) tend to be an energy intensive procedure involving heavy equipment creating extensive fuel combustion air emissions.



Bentofix Lined SWM Pond December 2010, a duck's paradise.



Bentofix deployment proceeding with ease.



One foot cover soil being placed over the GCL.



Nailed batten bar strips GCL-Concrete connection.



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