

Milner Ridge Case Study

6 years Update



Background:

Milner Ridge was a lined waste water lagoon project made entirely out of very erodible sand. The engineer needed a more cost effective vegetation solution than hauling in topsoil.

Solution:

Mid Canada Hydroseeding applied Verdyol Biotic Earth Black a hydraulic growth medium (HGM) along with seed water and fertilizer to kickstart mother nature in reclaiming this site. S31 and S32 Straw erosion control blankets were applied over the entire site to prevent erosion of the very loose sands.

Installation:



Year One:



A mix of grasses and legumes where planted, the sod forming grasses showed exceptionally well in the first year locking the sand with a dense root mass thus preventing all erosion of the lagoon.

Year Three:



Slowly over time due to lack of nutrients in the sand the grasses started to weaken and the nitrogen fixing legumes (clover, birds foot trefoil and alfalfa) started to fill in. To date no erosion on the cell has occurred.

Year Five:



The Verdyol Biotic Earth layer has been successfully replaced with a new growing layer that will support the vegetation over the long run. Mosses native to the area (boreal forest) are flourishing along with the grasses and legumes.



Areas with dense legume vegetation had evidence of deer that have been grazing helping to contribute to the nutrient recycling and soil building efforts.

Year Six:

A quick dig into the soil layer reveals a very robust and strong organic layer that is growing and supporting strong growth of vegetation.

Large white tail deer where seen grazing this slope taking advantage of the lush vegetation and helping to increase the nutrient cycling process.





