



CASE STUDY

Wastewater Lagoon Cells - Multi-layer Geosynthetic Lining System



▼ **LOCATION:** Reynolds, Manitoba

▼ **PROJECT TYPE:** Supply and Installation

▼ **PRODUCT USED:** 4x - 60mil HDPE Doubled-sided Textured Geomembrane, Geotextiles, Woven Geotextiles

▼ **PROBLEM:**

A wastewater lagoon lining system was to be installed in Southeastern Manitoba inclusive of four individual cells. The original designs included intermediate trenches between all four of the cells.

▼ **THE TITAN SOLUTION:**

Titan worked with the customer and design engineer on material recommendations to complete the project which included the installation of 586,094 SF (54,450 m²) of 60mil HDPE for 4 cells along with a supply of 22 Rolls (4.57m x 91.5m) – TE-8 NW Geotextile, 33 Rolls (5.33m x 78.64m) – TE-W315 Woven Geotextile, and 15 m (8 & 7m long pcs) – 600mm x 2.0mm Gal CSP c/w 1 coupler.

The original design had intermediate trenches between all four lagoon cells. This posed some initial concerns, so we worked with the contractor and were able to show that our methodology of lining over the berms was more efficient. We also communicated anchor trench backfill instructions to the contractor. Overall, our recommendations were approved, which we considered beneficial to the completed project.



Contact us for more information:

TITAN ENVIRONMENTAL CONTAINMENT

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RM of Reynolds Wastewater Lagoon



ACHIEVEMENT:

Titan provided turn-key service for this project, from design recommendations to material supply and installation. Our expertise helped achieve the most effective, long-lasting, and affordable solution for the client. Working in hot conditions, our crew of seven technicians and one tenured site supervisor achieved the necessary production value completing the job on schedule and within budget.



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