



# CASE STUDY

## Produced Water Storage Ponds - Multi - Layer Lining System

**LOCATION:** Peace River, British Columbia

**PROJECT TYPE:** Product Supply & Installation

**PRODUCT USED:** 60mil SST LLDPE Geomembrane, Geocomposite and Geonet



### CHALLENGE:

A client in Peace, River BC required two produced water storage ponds which were constructed on a 23.12ha lease. Each pond has an approximate storage capacity of 76,000m<sup>3</sup> for a total operating capacity of 152,00m<sup>3</sup>. Material had to be delivered within a tight time frame, and installation had to be completed quickly.

### TITAN SOLUTION:

Both North and South ponds were built with six layers of different geosynthetic materials, with an area of approximately 199,778ft<sup>2</sup> (18560 m<sup>2</sup>) each. The design included a geocomposite layer directly on the prepared subgrade and, two layers of geonet sandwiched between three layers of LLDPE liner above the geocomposite. An acoustic test was conducted to ensure that there were no leaks and that the seals were completely secure.

Titan collaborated with the client to ensure project efficiency and avoid delays to the next phase of the project.



North & South Storage Ponds



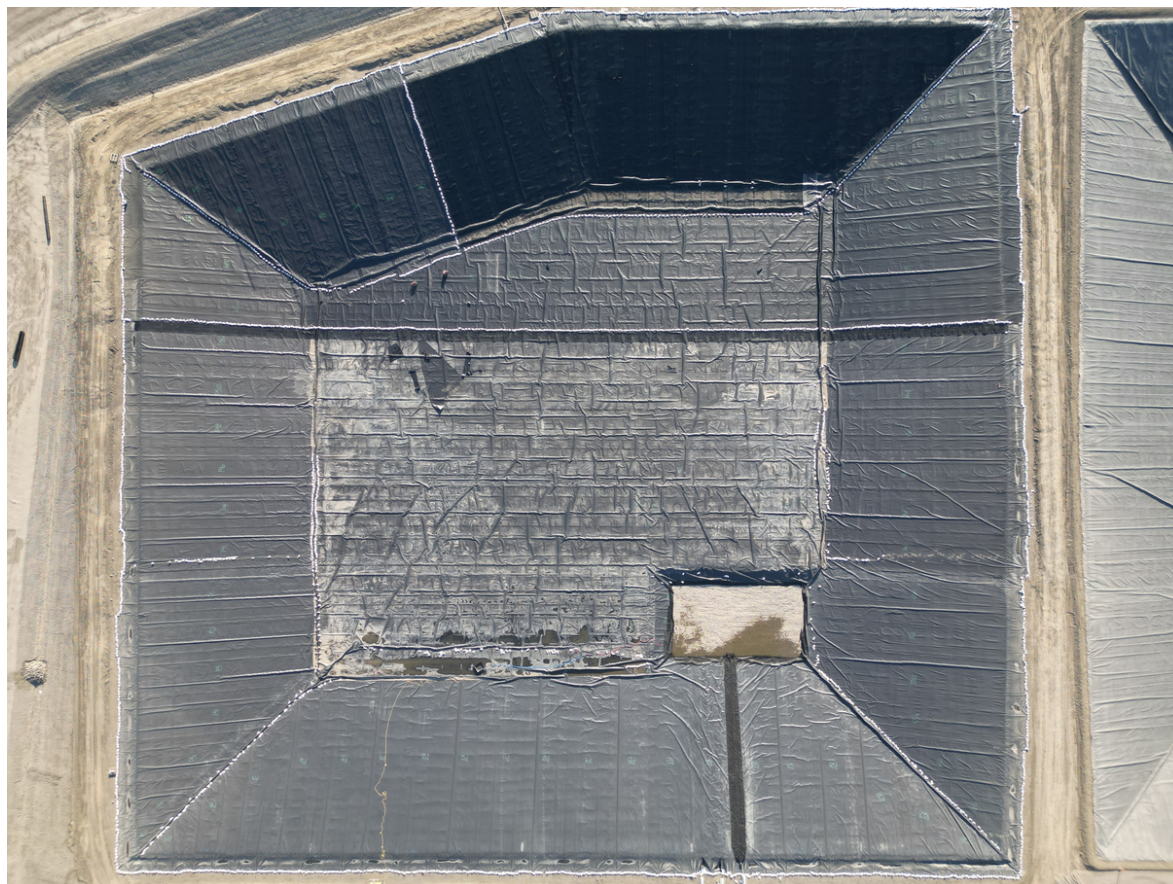


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### ACHIEVEMENT

Despite facing a short turnaround time for material delivery, Titan was able to deliver resources and cater to the client's needs. As a result, we were able to complete two ponds quickly and efficiently. Throughout the project, we delivered high-quality work without any compromise, meeting all the client's expectations.



Aerial shot during acoustic testing