



# CASE STUDY

## Fuel Tank Secondary Containment Lining System - Prefabricated Geomembrane

**LOCATION:** Guam, United States

**PROJECT TYPE:** Product Supply & Installation

**PRODUCT USED:** 40-mil Polyurethane Prefabricated Geomembrane



### CHALLENGE:

A client in Guam needed a secondary containment solution for two large fuel storage tanks.

### TITAN SOLUTION:

Titan, a leading provider of turn-key geosynthetic solutions, was chosen to provide a high-quality installation that met the client's specifications for materials and design.

The project involved the fabrication of geomembrane panels that were shipped to site and installed as part of a secondary containment lining system for large fuel storage tanks. This system act as a barrier to protect the surrounding soil from the risk of contamination with potential leaks.

A polyurethane geomembrane was used for this project as it is well-known for its versatility and fire-resistant properties, providing excellent resistance to corrosion caused by harsh chemicals. Titan's experienced fabrication team used the latest seaming and welding technology to custom fabricate pie-shaped liner pieces to accommodate the eight sumps and tight pipe fitting around each fuel storage tank.



Bottom layer of geotextile



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### TITAN SOLUTION CONT'D

The robust system fabricated and installed by Titan included a 10 oz geotextile underlayment, followed by a 40-mil polyurethane prefabricated geomembrane liner, and was rounded out with a 10 oz geotextile overlay.

### ACHIEVEMENT:

Using the latest seaming and welding technology, our fabrication team custom fabricated pie-shaped liner pieces to accommodate the eight sumps and tight pipe fitting around each fuel storage tank. We delivered the product to site and our senior installation team efficiently installed the lining system on schedule and to customer satisfaction, completing the project within 18 days of the material arriving at site.



Liner attached to the tank side wall