

## CASE STUDY

**Water & Waste Containment | Bunded Storage Facility | GPS Chemoil, Dubai**

Jun 2012

Client GPS Chemoil

Contractor Topaz

Product **EnviroFix**<sup>®</sup> X800 | 70 000m<sup>2</sup>

Consultant Dutco-Tennant

Rep Riaan Rademeyer

### Problem

In June 2012 work commenced on a new bunded storage facility for an oil tank project for GPS Chemoil, situated at the major bunkering port of Fujairah on the Gulf of Oman in the United Arab Emirates.

As a precaution to contain leakage or breakage of the oil tanks, the bunded storage facility had previously been lined with HDPE. Installation and welding of this lining was carried out by a local specialist contractor, which had proved difficult and costly.



*EnviroFix<sup>®</sup> was manually laid due to the pedestals.*

### Solution

After careful consideration of all other alternatives, the engineers concluded that geosynthetic clay liners (GCLs) would be more effective and simpler to install than HDPE lining. While investigating various alternatives, the company discovered that the supply and installation of **EnviroFix**<sup>®</sup> was more economical than similar products. Using a GCL also obviates the need for a cushioning geotextile to protect the HDPE liner.

In this case, **EnviroFix**<sup>®</sup> was manually laid due to the many pedestals supporting overhead oil transfer pipes. The many edges were then sealed with bentonite paste.



*The many edges were sealed with Bentonite paste.*

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### **Benefits**

By June 2013, when this project is scheduled for completion, 70 000m<sup>2</sup> of oil storage will have been lined with **EnviroFix® X800**, providing an efficient, cost effective solution to the challenge of lining the oil tank for long-term stability and easy maintenance.

