

Bridgetown Waste Facility Expansion Project

Stage 1 – Leachate Pond



Project Description

Leeuwin Civil were engaged by the Shire of Bridgetown-Greenbushes, on WML Consultant's recommendation, to construct Stage One of the future expansion of the Shire's waste facility in Bridgetown.

Works comprised removing and stockpiling the initial 400mm of the existing ground and stockpiling as unsuitable material. The 10,000m³ of clay cut to fill material was then conditioned, placed and compacted to build the dam. The dam was lined with 5,000m² of geosynthetic clay liner and covered with HDPE liner.

In the overflow pond, the floor was cut and trimmed, and then had 8,000m² of geofabric placed on the floor. This was covered with 300mm of blue metal ballast with 180m of a 160mm HDPE leachate pipe within the ballast, which was welded together and connected to the main dam. The geofabric was then wrapped over the ballast to form a sealed leachate.

The project encountered heavy rains during the month of January, which could have had the potential to affect programming. However, this was overcome through close consultation with the Shire and WML with the solution including a week's demobilisation to enable the site to dry out.

Scope of Works

- removal and stockpiling in situ material;
- preparing 10,000m³ of cut to fill in situ clay material;
- supply and installation of 8,000m² geofabric;
- supply and installation of 5,000m² of GCL;
- supply and installation of 5,000m² of HDPE liner;
- supply and installation of 180m of 160mm HDPE leachate pipe; and
- access track installation.



Location

Bridgetown, WA

Dates

Jan 2016 - Mar 2016

Client

Shire of Bridgetown,
Greenbushes

Designer

WML Consultants Pty Ltd

Project type

Dams/Leachate Pond
Construction

Cost

\$380,000

Job Number

1796

Referee

Lindsay Crooks
Shire of Bridgetown
(08) 9761 1555