

Case Study



LANDFILL CAPPING ANCHORS - MOLEIGH & DALINLONGART, ARGYLE & BUTE

Client: Shanks Group Plc

Consultant: Halcrow

Main Contractor & Anchor Installer: [Environmental Linings Ltd](#)

PROJECT SPECIFICATION

To provide an anchoring system that would be capable of holding a multiple layered landfill capping solution over a steep gradient tip. An additional requirement was to provide a gas tight seal to prevent the escape of greenhouse gases into the atmosphere and also the ingress of rainwater that could generate ground polluting leachates.

SOLUTION

Laid out on a staggered 3m grid pattern, the anchors were driven straight through the laid membrane and directly into the landfill waste to a depth of approximately 1.4m. They were then load locked by hand before the polyethylene load plate and conical wedge grip were installed and sealed to the membrane using silicon mastic. The posidrain and UV layer were then laid and securely fixed using the top load plate and aluminium swage.

Anchor System: S04 Geo anchors c/w a UV inhibited polyethylene load plate, conical wedge grip, a further UV inhibited polyethylene load plate & aluminium swage.

Quantity: 2000 (over two sites) **Anchor Design Life:** 5yrs **Soil Type:** Landfill waste

