

MORE THAN A MILE OF SMARTDITCH INSTALLED AT UK LANDFILL TO ADDRESS EROSION CAUSED BY CAP RUN-OFF

Problem

As is typical of most landfills, water accumulation on this UK landfill was creating a surface run-off problem during heavy rain events and causing severe erosion along many points of the landfill. In the western UK, where rain is a fairly frequent event, one landfill owner in Whitehaven, Cumbria, UK, chose to seek a better drainage and erosion control solution.



SmartDitch eliminated landfill erosion caused by steep slopes.

Solution

To correct this problem, URS - Manchester, UK, the landfill owner's engineering firm, designed a series of outfalls and lateral drainage channels to allow SmartDitch to redirect the cap water flow into a settling and retention pond. The severity of the slope grades were varied; with some as steep as 21%. In all, 5,695LF (1736m) of both 12" and 24" trapezoidal SmartDitch was installed (along with a series of fittings, flared-end sections and



Over 1 mile (5,695 LF or 1736m) of SmartDitch was used throughout this UK landfill to correct run-off and erosion issues caused by cap water overflow.

edge protection) to complete the drainage improvement system. It took just 8 weeks to complete the project, which also included ditch prep, edge protection, and the installation of fittings and flared-end sections. The flexible and lightweight design of SmartDitch also allowed the installation crew to work around existing site services, a leachate management system, trees, and shrubs.



Fittings and edge protection complete the SmartDitch system.

Quick Facts

- ◆ **PRODUCT:** 12" & 24" Trapezoidal SmartDitch
- ◆ **LENGTH:** Feet: 5,695 total (2,916 of 24", 2,778 of 12")
Meters: 1736 total (889m of 24", 847m of 12")
- ◆ **CONSTRUCTION TIME:** 8 weeks (incl. ditch prep, installation, backfilling, weather delays)
- ◆ **SITE ENGINEER:** URS - Manchester, UK
- ◆ **INSTALLATION CONTRACTOR:** Fox (Omby) Limited, Lincolnshire, UK
- ◆ **SALES REPRESENTATIVE:** Somerville Marketing - Ontario, Canada



SmartDitch is already hard at work before the installation is even complete.



Construction crew installed 5,696LF (1736m) of SmartDitch in 8 weeks (incl. weather delays).

SmartDitch is manufactured in the USA. It is a safe, economical, long-lasting, and environmentally sound irrigation channel lining solution. For more information on the SmartDitch and the MegaDitch HDPE Channel Lining Systems contact:



866.576.2783 SMARTDITCH.COM