



DRAINTUBE

AT WORK

A DRAINTUBE™ Case Study

Environmental Applications

DRAINTUBE™ geocomposites have been used by Waste Management, Inc. and WSP since 2009 to collect stormwater and Landfill Gas under the geomembrane at the largest landfill serving the City of Montreal (Qc).

WSP Engineering selected **DRAINTUBE™ 300P FT D25** geocomposites to capture rainwater and LFG in the design of cap projects at WM's Ste Sophie landfill near Montreal.

Using DRAINTUBE® geocomposites allowed lower quality but locally available sand to be used as the cover material for the long and steep project slopes.

DRAINTUBE® geocomposite drains also offered other advantages including:

- use of Lymphéa® hydraulics design software, which includes consideration of drainage flow and water head,
- high friction angles between the textured geomembrane chosen and **DRAINTUBE™** which eliminated peel adhesion and sliding concerns,
- custom **DRAINTUBE™** roll lengths to avoid joints on the slopes,
- consistent QA/QC by using a man-made product instead of a natural material.

Installation of DRAINTUBE™

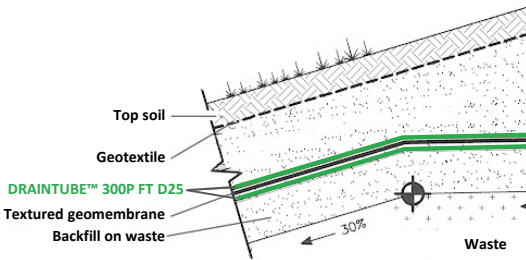
Product: DRAINTUBE™ 300P FT D25
 Rainfall water drainage & LFG collection

Year: since 2009

Client: WASTE MANAGEMENT Inc.
Engineer: WSP

Total Area: 185,000 m² (2,000,000 sf)
Typical slope: 3H:1V

Saving: 55,000 m³ (75,000 cy) of drainage sand @ k=10⁻³ cm/s



Cross-section of the cap design

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Produced by:



DRAINTUBE™, the drainage YOU want!