



Installation of DRAINTUBE™ - phase 1 - 2008

DRAINTUBE

AT WORK

A DRAINTUBE™ case study

Tailings and mining applications

The Ministère des Ressources naturelles du Québec and Groupe SM have trusted in the **DRAINTUBE™** technology for the restoration project of the abandoned site of the Eustis mine Phases 1, 2 et 3 - North Hatley (Qc) during the last 3 years.

During the project of covering the cells in phases 1 (2007-2008), 2 and 3 (2009), the engineering office Groupe SM decided to optimize the drainage layer for rain water by choosing **DRAINTUBE™ 400P FT1 D25** as a product to replace a 150 mm (6") thick drainage layer of sand.

In a conventional structure the sand is not only used as a drainage element but also as a protection layer for the waterproofing geomembrane. The geocomposite technology of **DRAINTUBE™** perfectly fulfills these two functions while offering a number of other advantages:

- design the project with the help of the hydraulics software Lymphéa®
- replace a natural material, which is becoming more and more rare by a man-made, cheaper product,
- reduce the transportation of materials to site thus reducing green house gases
- assure a constant product quality by using a man-made product instead of a natural material.

Product : DRAINTUBE™ 400P FT1 D25

Years : 2007, 2008 and 2009

Project Owner : MRNF of QUEBEC

Engineering : Groupe SM

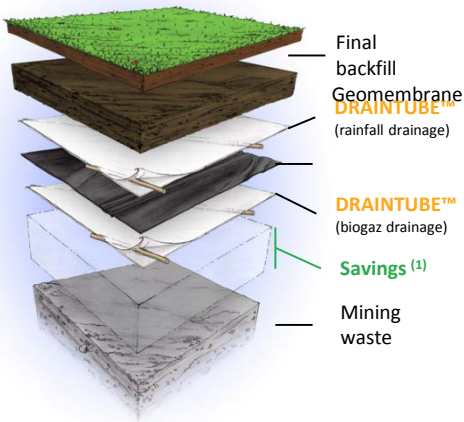
GC : Geramin Lapalme

Total Surface : 45,000 m2 (500,000 sf)

Gradient : 3H:1V

Leak detection through geoelectric methods

GHG savings: 25 ton/CO₂



(1) DRAINTUBE™ allows the savings of 150 mm (6") of sand (biogaz collection below the geomembrane and 300 mm (12") of gravel (rainfall collection on the geomembrane)

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Phase 1 – after completion - 2009

Produced by:

AFITEX **Texel**
LE DRAINAGE SUR MESURE • THE DRAINAGE YOU WANT

DRAINTUBE™, the drainage you want!