

## Silent Valley Erosion Control



**HydraCX™ being applied at Silent Valley, Ebbw Vale**

HydraCX™ was applied to 125,000m<sup>2</sup> of poor, erosion prone soil at a large landfill site in Ebbw Vale, South Wales.

HydraCX is a hydraulically applied erosion control product that protects slopes against soil and seed loss from heavy rain and wind from day one of application. It is 100 per cent natural, consisting of reclaimed cotton and straw fibres, and is an effective alternative to a biodegradable rolled erosion control coir/jute matting or netting solution.

Landfill slopes were lined to prevent the migration of leachate into underlying soil, ground water, aquifers or nearby rivers. The liner was then covered in sub soil and rolled and compacted with a further layer of soil over the top.

On site, the ground conditions are poor with very little fertility within the soil. Salix applied HydraCX with a specific seed mix to provide short term soil protection whilst vegetation establishes as a direct cost effective alternative to using a Rolled Erosion Control Product (RECP).

### Products Used

- **HydraCX™**



Erosion prone slopes in September 2015



Grass mix established by November 2015

Tackifiers and polymers within the HydraCX matrix chemically bond the soil particles preventing any soil loss even during major storm events. The all natural cotton of HydraCX holds just the right amount of moisture to quickly establish germination and promote vegetation growth for permanent erosion control.

It has exceptional, high-performance slope erosion control equivalent to a biodegradable blanket.

HydraCX can be installed over rough terrain where voids, tree roots, rocky outcrops and existing vegetation may be present. In contrast, geotextiles need good ground preparation.

It is 99.6% effective in reduction of soil erosion under extreme rainfall in independent large-scale slope testing.

There is faster seed establishment than any other method. Nutrient rich natural cotton adds significant amounts of nitrogen, phosphorous, and potassium to the soil.

HydraCX can be used to reduce topsoil depth or remove the need for topsoil altogether.

There are significant health and safety benefits as it reduces the need to access slopes, unlike installing erosion control geotextiles/blankets.



All natural cotton and straw mix



Rapid establishment stops erosion