



Erosion Control Solutions and Applications



Case Study

Flexterra FGM and Terra-Tube

Maritime Hydroseed

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Maritime Hydroseed offers erosion control solutions and applications designed to meet and exceed the needs of customers spanning across different and unique industries. We have the expertise and capabilities to handle a number of different applications, job site conditions, and everyday challenges that our customers face in their respective industries.

The Case Study presented here details the use of Flexterra-FGMTM on a site that comprised less than ideal conditions. A previously standard Hydroseed plus straw application had failed due to adverse weather conditions. The original contractor was under extreme pressure due to sediment movement, brown water, caused by a very rainy July/August. In addition to the local ground cover problems there existed a potential endangerment to a nearby fish habitat.

Maritime Hydroseed was contracted to evaluate the situation and a decision was made to apply ¹Flexterra-FGMTM with ²Terra-Tube®. The following pages detail a rapid and successful solution.

Tuesday, July 29/08



These photos show the condition of the site following the failure of the original Hydroseed application due to weather. Note the lack of turf growth, sediment movement and presence of brown water.

The client had the following options:

- ~ reapply Hydroseed plus straw
- ~ reapply Hydroseed with cellulose (paper) mulch plus the addition of a jute/erosion control mat
- ~ Hydromulch with Flexterra-FGM plus Terra-Tubes for sediment and brown water control

The decision was made to Hydromulch with Flexterra-FGM plus Terra-Tubes. Application began immediately, in spite of the fact that less than ideal conditions were present due to a rain event 12 hours prior to application.



Flexterra-FGM slurry mix

left - Maritime Hydroseed truck with Flexterra-FGM bales.



Terra-Tubes



Application of Flexterra-FGM on Tuesday, July 29/08



The contractor observed no problems or failure of the Flexterra-FGM, even though there was a rain event within one hour after the application. Stability was also maintained during the following 9 rainy days and there was no problem with sediment movement or brown water due to the addition of the Terra-Tube .



Tuesday, July 29/08



The time between the application of the Flexterra-FGM is 21 days (Aug 17/08), as noted in the photographs. The growth of grass exceeded the contractors expectations.



Aug 17/08



Aug 17/08

21 days of growth



Aug 17/08

Note that the water flow was very forceful and managed to dislodge the straw bales wrapped in the Geo Textile, however the Terra-Tubes stayed in place.

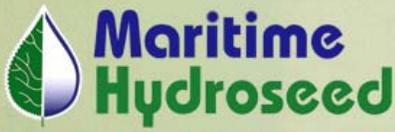
Conclusion

A very challenging project exercised in less than ideal conditions. The 21 day growth of lush grass more than demonstrates that Flexterra-FGM, properly applied with the right equipment by experienced applicators, does indeed produce successful results



21 days of growth





**Maritime
Hydroseed**

Erosion Control Solutions and Applications



Maritime Hydroseed is an established business specializing in Hydroseed applications, erosion control, soil and slope stabilization, revegetation, reclamation, landfill covers and dust control. For more than 35 years, we have been a trusted Hydroseed applicator throughout Atlantic Canada.

Maritime Hydroseed has been involved in numerous projects with the Province of New Brunswick Departments of Transportation and Environment, as well as government departments in other jurisdictions. Our applications have been customized to meet and exceed Government specifications and daily inspections.

During 35 years as a Hydroseed applicator, we have found it accommodating to be able to mix and match different seed blends with a variety of soils and job site conditions depending on the client and project. We understand “sustained growth”, the establishment of long-term, healthy turf grass and root development.

Visit Maritime Hydroseed on the web at <http://maritimehydroseed.com/>

Appendix

¹Flexterra-FGM™ ~ Flexterra Flexible Growth Medium

The Ultimate Medium for Erosion Control and Revegetation Flexterra™ uses patented technology combining both chemical and mechanical bonding techniques to lock the engineered medium in place. Crimped synthetic fibers, organic fibers and performance-enhancing additives form a lofty, interlocking matrix that creates air space and water-absorbing cavities which improve germination; reduce the impact of raindrop energy and minimize soil loss. Superior chemistry means no cure time, which enables the matrix to handle higher rates of surface flow energy from heavy rains—upon application. Water-resistant tackifiers and flocculants chemically bond the matrix to the soil surface.

Click here to learn more <http://www.maritimehydroseed.com/products.html#flexterra>

²Terra-Tubes® ~ Fiber Filtration Tubes

Terra-Tubes are the industry’s most cost-effective storm water treatment device—designed to effectively trap, filter and treat sediment-laden runoff while reducing hydraulic energy. Terra-Tubes Fiber Filtration Tubes are engineered composites of wood fibers, man-made fibers and performance-enhancing polymers—all encased in heavy-duty cylindrical tubes.

See why Terra-Tubes leaves wattles, fiber rolls and similar technologies in the dust. No other product provides Terra-Tubes’ three primary functions—FLOW, FILTRATION, and FLOCCULATION—for the best sediment retention and storm water treatment option.

Click here to learn more <http://www.maritimehydroseed.com/products.html#terratubes>