

Flexterra® HP-FGM® Proven to be Best Solution for Pipeline Right-of-Way Restoration

PROJECT STAKEHOLDERS

- Canadian Natural Resources Ltd., Project Owner
- Pineview Vegetation Management, Contractor

CHALLENGE

- Rapidly revegetate 1 hectare (2.5 ac) of a pipeline right-of-way with steep slopes and streambanks to prevent erosion and sediment runoff in riparian areas.

RESULTS

- Proven cost savings
- Better vegetation establishment than alternative erosion control products
- Stabilized soil and sustainable vegetation thriving at three-year milestone

PRODUCTS USED

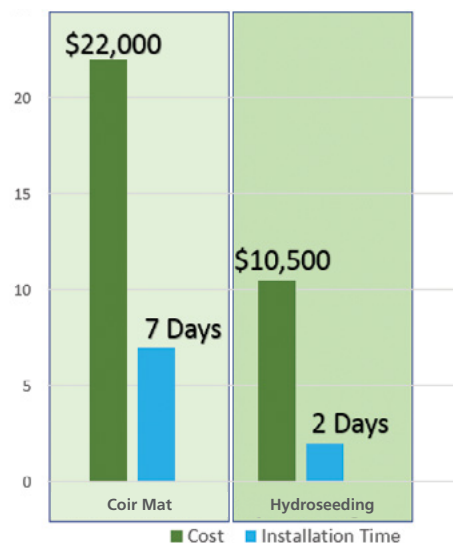
- Flexterra® High Performance-Flexible Growth Medium®: 2,800 kg/ha (2,500 lb/ac)
- AquaGel™: 11 kg/ha (10 lb/ac)
- Northeast Dryland Seed Mix

Canadian Natural Resources Ltd. (CNR) enlisted the services of Pineview Vegetation Management to restore 1 hectare (2.5 acres) of a newly completed portion of the Northeast BC Pipeline right-of-way (ROW) near Fort St. John. The goal was to revegetate this steeply sloped area to prevent soil erosion and sediment runoff around adjacent streambanks and riparian areas. CNR initially planned to use coir mat blankets to stabilize the area, however after multiple failed attempts at vegetative establishment on past projects, they decided to consult with Pineview Vegetation Management and Profile® Products to develop an effective and long-lasting solution.

PROFILE DELIVERS THE OPTIMAL SOLUTION

After reviewing the site, Pineview Vegetation Management and Profile prescribed hydraulically applied and environmentally friendly Flexterra® High Performance-Flexible Growth Medium® (HP-FGM®) to hold seed and soil in place while promoting rapid germination for initial slope stabilization. Profile's Flexterra is proven to be 99 percent effective and is the highest-performing erosion control product on the market. It bonds directly to the soil for faster vegetative establishment and produces greater biomass than any rolled blanket or other hydraulically applied erosion control product on the market. It's manufactured from 100% biodegradable, natural ingredients and non-toxic materials. The absorbent AquaGel™, a ProPlus® fiber mulch amendment, was incorporated into the mix to ensure plants and roots would get enough moisture for proper germination and establishment.

Coir Mat vs Hydroseeding 1 Hectare



Applied at 2,800 kg/ha (2,500 lb/ac), the installation of Flexterra required far fewer labor hours and was much more cost effective than the previous blanket installations. The Flexterra application cost only \$10,500 per hectare and took two days to complete. Comparatively, coconut blankets would have cost \$22,000 per hectare and taken seven days to install.

NATURAL, LASTING RESTORATION

The results speak for themselves. Thick vegetation took root, stabilizing the soil on the site's steep slopes, standing up to runoff and preventing erosion. Three years after application, native vegetation has returned the site to a natural state providing long-term erosion control along slopes, stream banks and riparian areas. With the combination of Flexterra, AquaGel and Northeast Dryland Seed Mix, Pineview Vegetation Management and Profile Products were able to create the best results possible with lower costs and in less time.



ROW prepped for application



Applying Flexterra® HP-FGM®



Sustainable growth three years later