

Case Study

Steep Slopes Project Profile: Olympic Park, BC

Issues

- Sandy Soil
- 2:1 Steep Slopes
- Hydraulic erosion products required



Steep, highly erodible slopes made the placement of erosion control products difficult, 2011

Problem

The Canada Olympic Park featured steep slopes that were highly erodible due to the extremely sandy slopes. This caused runoff and sediment accumulation on the COP West Parking Lot. Due to the steep, sandy slopes, manually placing soil improvement products and rolled erosion control products proved difficult. Poor soil fertility coupled with the erodible soils made achieving successful vegetation densities difficult.

Solution

Verdyol Biotic Earth was applied at a rate of 3900 kg/ha. Separate tackifying agents were not required as the erosion control used on the site was a Bonded Fiber Matrix that includes tackifying agents.



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Biotic Earth is applied hydraulically, 2011.



Growth onsite, 2012.



July 2020. The site is flourishing.

Results

One year later, grass establishment on the 2:1 slopes was thick and robust, and some turf varieties were spiking seed bearing heads. Slope erosion and sedimentation onto the COP West Parking Lot was eradicated, and posed no further maintenance issues. Only one application was required, and vegetation remains full on the slopes to this day.



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