

2008 INTERNATIONAL ACHIEVEMENT AWARDS



AWARD OF EXCELLENCE

GEOSYNTHETIC PROJECTS

TENCATE GEOSYNTHETICS

PENDERGRASS, GA., UNITED STATES

GRS Swamp and Stream Crossing Airmail Drive

Fabric: Mirafi HP370 by TenCate Geosynthetics

Tencate Geosynthetics upgraded an existing, narrow, nonstatus rural road to a British Columbia Ministry of Transportation (BC MoT) standard 8m wide, gravel surface road. About 85m of the existing road crossed a stream and swamp area located between two lakes, and the existing road surface was only 80cm above the surface of the swamp. Geotechnical investigations determined that the existing road had settled about 1.7m since it was constructed in the mid 1970s. The existing stream-crossing structure consisted of a 600mm diameter steel culvert. The developer requested an expedited construction schedule and the environmental monitors preferred winter construction. For fish passage it was a requirement to install an open bottom structure. Construction of a pile supported geotextile reinforced soil (GRS) embankment permitted the construction of the road and open stream crossing structure. The project was constructed in an expeditious manner with very little environmental impact. The project has exceeded short-term performance expectations and is expected to provide acceptable long-term support for the expected vehicle traffic. The structure has also re-established fish passage between the two lakes.