

SOUTH CHICKAMAUGA CREEK

TEMPORARY HAUL ROAD

MIRAFI RS580i GEOTEXTILE

DURABLE ACCESS ACROSS WET, SOFT SOILS

SUMMARY

The South Chickamauga Creek Interceptor Rehabilitation project required a temporary access road capable of supporting heavy trucks and construction equipment across weak, wet soils. Hurst Excavating installed Mirafi RS580i beneath the aggregate haul road, creating durable access while preserving the ability to remove the roadway after construction.

THE CHALLENGE

Poor, wet soil conditions made dependable access difficult for the vehicles and equipment required on the project. The solution had to withstand repeated construction traffic without becoming a permanent installation. Heavy bearing mats were considered, but transporting, positioning, and later removing them would have required substantially more time and labor. The project team also wanted to minimize disturbance to the surrounding area once construction was complete.



A PRACTICAL ALTERNATIVE TO HEAVY BEARING MATS



THE SOLUTION

The project team selected Mirafi RS580i, a heavy-duty woven geotextile engineered for stabilization and reinforcement over extremely soft subgrades. Hurst Excavating rolled the geotextile into position and placed aggregate over it to construct the temporary haul road. The straightforward installation avoided the extensive handling associated with individual bearing mats. The geotextile helped maintain separation between the weak subgrade and aggregate while reinforcing the roadway section under construction traffic.



THE RESULTS

Installed in late 2022, the temporary haul road supported access by heavy trucks and construction equipment for approximately 12 months. According to the project team, it provided durable access across wet, soft soils with less setup time and labor than a heavy bearing-mat system would have required. Because the system was temporary and removable, it also helped minimize the project's lasting impact on the surrounding area.

ABOUT MIRAfi RS580i

Mirafi RS580i is the premium, heavy-duty product in the Mirafi RSi series of woven, high-performance geotextiles. Its multilayer woven-fiber construction is engineered for stabilization and reinforcement in demanding applications, including haul roads and other infrastructure built over weak foundation soils.



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