## ETS

## Cherokee Orchard Road & Roaring Fork Motor Nature Trail Great Smoky Mountains National Park, Tennessee



## **Services Provided:**

- Construction Testing
- site preparation testing
- foundation observation
- Soil cement treatment design and testing
- field testing of concrete masonry
- Laboratory Testing
- standard proctors
- moisture content
- Atterberg limits
- concrete compressive strength

In 2010 Cherokee Orchard Road and the Roaring Fork Motor Nature Trail, a 10+ mile stretch of road and popular tourist destination within GSMNP, were completely redone. Part of this project required full depth reclamation and cement treatment testing. ETS collected samples from locations along the road, by coring 8 inches below the roadway surface and retrieved the materials (asphalt, basestone and soil subgrade). The samples were combined and mass loss tests (AASHTO T135) were performed in our laboratory. Based on the test results, we were able to provide an optimum cement content for the mix used in the reconstruction of the roadway.

In addition to these services, ETS also monitored undercutting of unsuitable soils, placement of compacted fill, and performed concrete testing services.

Client - Enola Contracting- Dean Evans Reference- Mr. Alan Sumeriski, National Park Service





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