

Client
Dale & Associates

Key Services Provided

- Wetland delineation
- Endangered bat habitat identification
- GIS mapping

Project Duration
January 2017

ES Key Staff

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DALE & ASSOCIATES WETLAND DELINEATION

Antioch, Tennessee



EnviroScience, Inc. performed a delineation of wetlands and other Waters of the U.S. (WOUS) in January 2017 for Dale and Associates, Inc. at a 32-acre property in Antioch, Tennessee. The property consisted of forest and old field vegetation, while the surrounding land use consisted of forested areas and residential properties. Using delineation methods developed by the U.S. Army Corps of Engineers, EnviroScience identified four WOUS features, including palustrine open water, palustrine forested, and palustrine emergent wetlands. Additionally, using methods developed by the North Carolina Division of Water Quality and the Tennessee Department of Environment and Conservation, EnviroScience identified 11 wet-weather conveyances. Soil types were categorized and mapped via ArcGIS. EnviroScience examined the project area for suitable habitat for federally listed bats.

All wetland areas were initially marked with flagging tape, and locations were recorded on a Trimble GeoExplorer 3000 series GPS device. EnviroScience imported all coordinates into a computer and calculated areas for all wetlands, as well as length for all wet weather conveyances. In total, the features accounted for approximately 0.29 acres of wetland area and 1,803 linear feet of wet weather conveyance. Site maps were developed via ArcGIS.