

## Section Description

F2-F2' is a dip-oriented section on the eastern side of the State that runs along the border with North Carolina. Originating at a water well in northern Marlboro County, the section runs in a southeasterly direction passing through Dillon and Marion Counties, and terminating at a core hole near Myrtle Beach in coastal Horry County. Two core holes and six water wells were used to construct the section. One inch on the vertical scale is equivalent to 200 feet of depth. The distance, in miles, between two adjacent wells is provided on the section.

The northernmost well on the section (**MLB-182**) is an abandoned test hole drilled in 1991 for the Wallace Water Company in northern Marlboro County. Continuing downdip, well **MLB-183** is a public supply well drilled in 1992 for the Marlboro Water Company. Completed in the McQueen Branch aquifer and in sandy beds of the Gramling confining unit, an aquifer test yielded a transmissivity of 1,500 ft<sup>2</sup>/d (feet squared per day) pumping at a rate between 500 and 750 gpm (gallons per minute).

The next well on the section, **DIL-114**, is an abandoned test hole drilled in 1994 for Trico Water Company in northern Dillon County. **DIL-121** is a core hole drilled to bedrock at Little Pee Dee State Park in Dillon County. Drilled in 1996 by the USGS and SCDNR, information from the core was used to delineate and map the geologic and hydrogeologic units of the area. Upon reaching bedrock, the core hole was backfilled and completed as a monitoring well in the McQueen Branch aquifer. In 2014, SCDNR constructed five additional wells at the site, all of which are monitored by SCDNR for water levels.

Well **MRN-89** is a public supply well drilled in 1979 for the Town of Mullins in eastern Marion County. Completed in both the Crouch Branch and McQueen Branch aquifers, an aquifer test of the well produced a transmissivity of 1,600 ft<sup>2</sup>/d pumping at a rate of 602 gpm. **HOR-998** is a public supply well drilled in 1989 for the Town of Aynor, and **HOR-287** is a public supply well drilled in 1973 for the City of Conway. Completed in the Charleston aquifer, an aquifer test of **HOR-287** produced a transmissivity of 3,300 ft<sup>2</sup>/d pumping at a rate of 517 gpm.

Well **HOR-1165** is a core hole drilled by the USGS and SCDNR for stratigraphic and hydrostratigraphic information. The core hole is located within several hundred feet of an earlier core hole (HOR-973) that was drilled by the South Carolina Water Resources Commission for an aquifer storage-and-recovery (ASR) study ([SCDNR Report 4](#)).

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