On May 12, 2004, more than 17 inches of rain fell in the Brazos River Valley. The streams and rivers could no longer hold their banks and soon the small Robertson County town of Hearne, near College Station, was underwater.

At the direction of GDEM, TX-TF1 activated a Water Rescue Strike Team, consisting of 4 Water Rescue Squads. The squads were deployed to the Robertson County area and coordinated with the local Incident Commander. TX-TF1 also deployed 6 HSARTs in support of 3 TXMF UH-60 Blackhawk helicopters to the area in case rescue missions became necessary. The heavy rains caused a 20-foot section of Farm-to-Market Road 2095 in Milam County to get washed out. Additionally, neighboring Robertson County fell subject to a dam collapse at Calloway Lake as well as many bridge failures and road closures. The heavy rains forced hundreds of residents to leave their homes. In total, nearly 200 homes were damaged.

TX-TF1 teams worked swiftly to respond to rescues of at least 6 people from houses, cars, and treetops. The Water Rescue Strike Team demobilized on May 14, as water levels receded.