

MARCH 13, 2019

Wednesday, March 13, 2019
5:30 - 6:30 PM (1.0 PDH)



Interstate 69 is covered by floodwaters from Tropical Storm Harvey in Humble, Texas on Aug. 29, 2017, . (AP Photo/David J. Phillip)

From : <http://mb.ntd.tv/2017/08/30/harvey-swamps-evacuee-shelter-on-texas-louisiana-border/>

PRESENTATION

5:30 - 6:30 PM (1.0 PDH)

Title : **I-69/US59 Bridge Scour Project at San Jacinto River**

Speaker : [John Delphia, P.E.](#) w/ *Texas Department of Transportation*

John Delphia received his Bachelors of Science Degree from the University of Vermont. He also has Master of Science Degrees in Geology and Geophysics from Boston College, as well as a Master of Science Degree in Civil Engineering from Texas A&M University. John has worked for the Texas Department of Transportation for 20 years. He began his career with the Bryan District working in Design and then went to work for the Bridge Division in the Geotechnical Branch after one year. John has worked in the Geotechnical Branch for the last 19 years, working his way to being the Geotechnical Branch Manager.

ABSTRACT : During Hurricane Harvey heavy rains inundated Houston and the surrounding areas causing severe flooding. The 5 day rainfall total exceeded 25+ inches. The IH 69/US 59 Bridge over the San Jacinto River was significantly affected by flooding and debris. Channel migration and scour removed a significant amount of soil around some of the bents, which led to the bridge being load posted and repair measures being implemented. This talk will focus on the flooding, scour/channel migration, evaluation of the structure, and repair measures that were taken.

WHO SHOULD ATTEND?

Civil engineers, geotechnical engineers, structural engineers, highway engineers, and others concerned with the design of columns and piles in bodies of water where scour could occur.