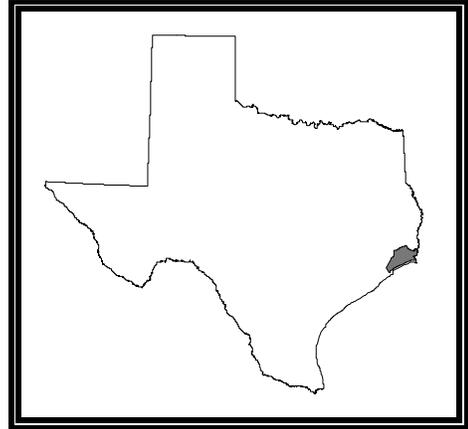


Basin 07

Neches–Trinity Coastal



Neches–Trinity Coastal Basin Narrative Summary

The coastal plain between the Neches River and Trinity River forms the Neches–Trinity Coastal Basin. The area is located in Jefferson and Chambers Counties. Maximum elevation in the basin is approximately 50 feet, although most of the basin is less than 25 feet in elevation. Total basin drainage area is 769 square miles. The basin has been divided into four segments consisting of 132 miles. There are 13 active surface water monitoring stations in the Neches-Trinity Coastal Basin.

Presently 95 percent of the basin population resides in Jefferson County. The economy of the area is based on chemical, petrochemical manufacturing, oil production, agriculture, and shipping.

Depressed dissolved oxygen concentrations occur in Taylor Bayou and Hillebrandt Bayou. Taylor Bayou is a naturally sensitive body of water due to hydrological modifications by channelization and a saltwater barrier, extremely sluggish flow conditions, and low atmospheric reaeration capabilities. These conditions are further aggravated by point source discharges from the cities of Beaumont and Port Arthur. Elevated ammonia nitrogen concentrations occur in Hillebrandt Bayou. Toxic substances in sediment exceed screening levels in Alligator Bayou.