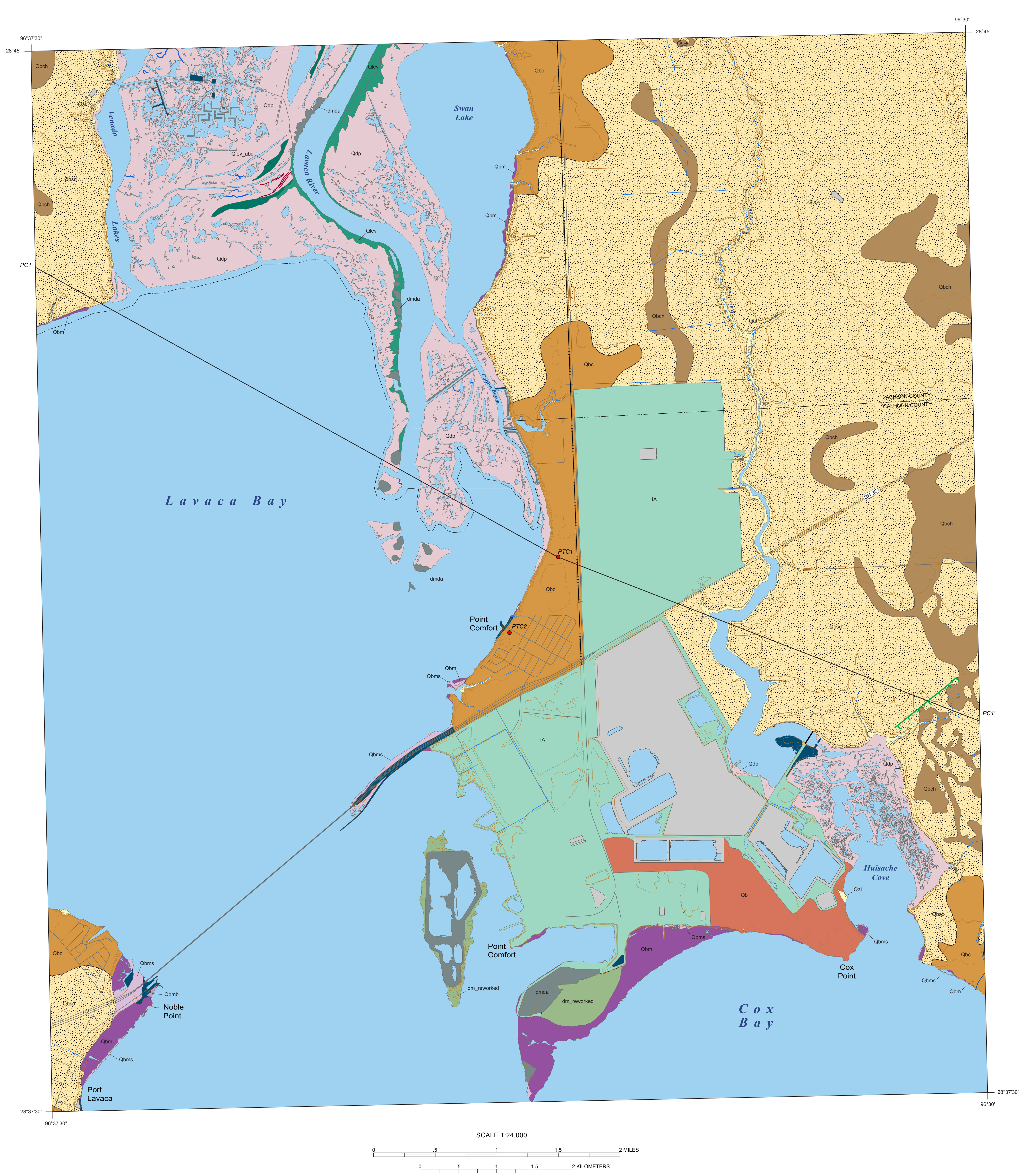




GEOLOGIC MAP OF THE POINT COMFORT QUADRANGLE, TEXAS GULF OF MEXICO COAST

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Explanation

Modern to Holocene

- Qal**—Alluvium. Sand and clay.
- Qlev**—Levee deposits. Sand and mud. Low, narrow deposits subparallel and adjacent to stream and tidal channels.
- Qlev_abd**—Abandoned levee deposits. Sand and mud. Low, narrow deposits subparallel and adjacent to stream and tidal channels.
- Qbm**—Bay-margin deposits. Mud and sand.
- Qbmb**—Bay-margin beach deposits. Sand, mud, and some shell.
- Qbms**—Bay-margin spit deposits. Sand, shell, and mud.
- Qdp**—Delta-plain deposits. Mud and sand. Includes some undifferentiated, minor fluvial levees; crevasse splays; tidal-channel levees; and active and abandoned stream and tidal channels.

Pleistocene

- Qb**—Beaumont Formation. Clay, silt, and sand in a fluvial-deltaic, interdistributary, and distributary setting. Includes stream-channel, point-bar, natural-levee, crevasse-splay, and back-swamp deposits. Some coastal-marsh, mud-flat, and lagoon deposits.
- Qbch**—Beaumont Formation channel facies. Sandy clay to clayey sand-channel facies mapped on basis of topographic expression.
- Qbc**—Beaumont Formation clay facies. Clay, silt, and minor sand in a fluvial-deltaic, interdistributary, and distributary setting. Contacts with Beaumont Formation sandy facies, **Qbsd**, are gradational.
- Qbsd**—Beaumont Formation sandy facies. Sandy clay, silt, and minor sand in a fluvial-deltaic, interdistributary, and distributary setting. Contacts with Beaumont Formation clay facies, **Qbc**, are gradational.

Map Symbols

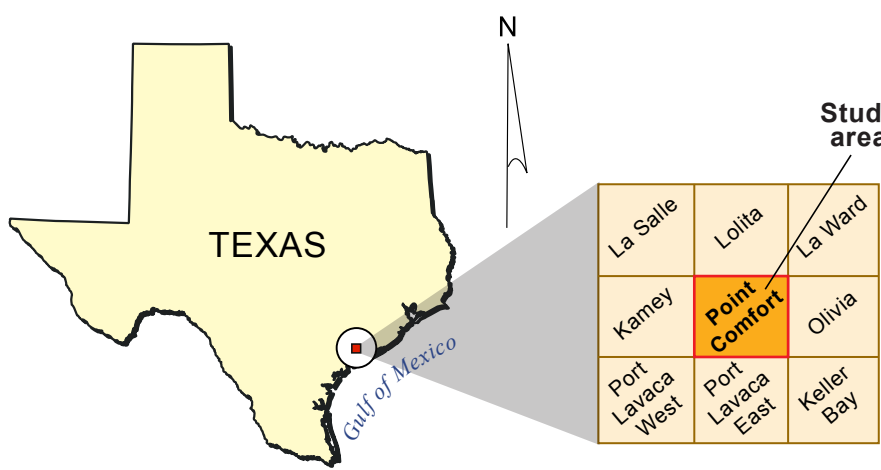
- Contact; dashed where approximate
- County boundary
- Road
- Railroad
- Meander scar
- Scarp; topographic scarp having relief of as great as 3 ft (1m)
- Elevation (ft); contour interval of 5 ft
- TDEM sounding; time-domain electromagnetic induction sounding for subsurface lithostratigraphic interpretations
- Water; bay
- Selected ponded water
- Tidal channel
- Intermittent canal
- Intermittent stream
- IA—Area of industrial development
- Pit
- Fill; land artificially elevated by fill material
- dmda—Dredged material disposal area
- dm_reworked—Reworked dredge material
- Dam
- Ditch

Acknowledgments

Photography used and reviewed in the study was 1.0-m-pixel digital imagery, photographed in 2016. Photography was obtained from Texas Natural Resources Information System (TNRIS). Photography was supplemented by a 1-m-resolution digital elevation model (DEM) constructed from a 2015 airborne Lidar survey of the Port Lavaca area acquired by the Bureau of Economic Geology (BEG) and 3-m-resolution DEMs from 2007 and 2011 U.S. Geological Survey lidar data sets. Previous regional maps that cover this area include the 1:125,000-scale Environmental Geologic Atlas, Port Lavaca Sheet (McGowen and others, 1976), the 1:125,000-scale map of Distribution of Wetlands and Benthic Macroinvertebrates (White and others, 1983), and the 1:250,000-scale Geologic Atlas of Texas, Beeville—Bay City Sheet (Aronow and others, 1975, revised 1987). The study included field observations of surficial deposits and collection and study of time-domain electromagnetic induction sounding measurements for subsurface lithostratigraphic interpretations. The 1:250,000-scale interpretations of the Beeville—Bay City Sheet (Aronow and others, 1975, revised 1987) are displayed in digital data files developed by the Texas Water Development Board and U.S. Geological Survey as part of the 1:250,000-scale Statewide Digital Geologic Atlas of Texas created from BEG hard-copy maps. Digital files for general topography adapted to this map came from TNRIS for the U.S. Geological Survey topographic map of the Point Comfort quadrangle. Digital files of roads were also obtained through TNRIS. Water bodies were adapted from aerial photographs, a lidar-derived DEM, and the U.S. Geological Survey topographic map. BEG staff Kutalmis Saylam, Tiffany Caudle, Aaron Averett, John Andrews, John Hupp, and Rebecca Brown acquired and processed airborne lidar data. Editing was by Stephanie Jones. Work for this map was supported partly by the U.S. Geological Survey, National Geologic Mapping Program, with the assistance of STATEMAP award G17AC00253, 2017, and partly by BEG STARF funds for geologic mapping and study of geologic hazards. Views and conclusions contained in this map should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government. The authors disclaim any responsibility or liability for interpretations from this map or digital data or decisions based thereon.

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N
3°9' MN
Approximate 2018 Magnetic North (MN) declination

System	Series	Time Ma	Map and cross section units	
Quaternary	Holocene	0.01	Bay and estuarine system	Fluvial-deltaic system
			Qbm Qbmb Qbms	Qal Qlev Qbch Qdp
Pleistocene		2.60		Qb Qbch Qbc Qbsd

