



KILLIAN QUADRANGLE LOUISIANA 7.5-MINUTE SERIES

Description of Map Units



HOLOCENE

Stream alluvium, undifferentiated—Deposits of ephemeral and perennial (Tickfaw River) streams incised into older strata. Occur as active and recently stranded terraces. Light to medium gray-brown clay mud and silt mud with medium to fine sand component of quartz and trace amounts of dark silicates and iron oxides. Produced by local re-working of Pleistocene sediments. Thickness 0 - 1 meter.

Coastal Swamp—Active deposit of fresh and brackish water inundation in peralic setting. Dark brown, black-brown, and black organic-rich clay with <1% very fine quartz sand and silt. Undetermined thickness.

PLEISTOCENE

Peoria loess (not shown)—Wisconsin age loess in thin (< 1m) veneer over Hammond alloformation. Light brown-white, light brown-gray, and light orange-gray fine sand and silt with minor clay, lacking sedimentary structures. Includes small population of coarse and medium sand size rounded and frosted quartz. Fine sand and silt dominated by quartz with minute trace amounts of feldspar, dark silicates, iron oxides, and light mica. Displays 5 cm scale vertical piping in thin erosional bluffs. Thickness < 1 m.

Hammond alloformation—Sequence of bedded sandy muds and muddy sands with small scale internal planar and low angle cross lamination. Gray, brown-gray, and gold-gray micaceous, arkosic fine sand, silt and clay with dark silicates and iron oxides in accessory amounts. Pedogencally altered clay-rich light colored mud with dark orange and red mottling is interpreted to mark upper boundary. Thickness undetermined.



McCulloh, R., Heinrich, P., and Snead, J., 2003, Ponchatoula 30 x 60 minute geologic quadrangle: Louisiana Geological Survey, scale 1:100.000.

Saucier, R. T., 1963, Recent geomorphic history of the Pontchartrain basin, Coastal Studies Series No. 9, 114 p.

Saucier, R.T., 1994, Geomorphology and Quaternary geologic history of the Lower Mississippi Valley, US Army Engineer Waterways Experiment Station, Vols I and II, 364 p. + Appendices + map folio.





Livingston and Tangipahoa Parishes, Louisiana, 2023

Wetlands.

This map has been carefully prepared from the best existing sources available at the time of preparation. However, the Louisiana Geological Survey and Louisiana State University do not assume responsibility or liability for any reliance thereon. This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such data are the sole responsibility of the user. These geologic quadrangles are intended for use at the scale of 1:24,000. ..U.S. Census Bureau, 2017 A detailed on-the-ground survey and analysis of a specific site may differ .FWS National Wetlands Inventory 2021 from these maps.