

Description of Map Units

QUATERNARY SYSTEM

HOLOCENE

Holocene undifferentiated alluvium—Undifferentiated deposits of small upland streams: alluvial deposits of minor streams and creeks of varying textures, filling valleys incised into older deposits.

Small River meander belt deposits—Point bar deposits underlying the meander belts of small streams.

Backswamp deposits—Fine-grained Holocene deposits of rivers, underlying the flood basins between meander belts.

Red River meander-belt deposits—Point bar deposits underlying meander belts of the

Red River natural levee deposits—deposits forming low natural levees flanking the

PLEISTOCENE

PRAIRIE ALLOGROUP

Upper Prairie Allogroup—Late Pleistocene alluvial deposits of the younger of the Prairie Allogroup temporal phases of the Red River valley. Where observed in the area northwest of Shreveport, the unit consists of grayish clayey very fine sand, with red mottles in places, weathering yellowish to yellowish brown.

TERTIARY SYSTEM

EOCENE

CLAIBORNE GROUP Carrizo Formation—

Hsm

PEw

Carrizo Formation—Well rounded, very fine to medium, glauconitic quartzose sand, commonly cross bedded, in places feldspathic and/or containing petrified wood (Andersen 1993, p73; Andersen 1960, p 84). Where exposed in the area northwest of Shreveport, it contains abundant quartz granules and consists of sandy granule conglomerate in places. Ranges from reddish orange to, in more weathered outcrops, a deep maroon limonitic sand containing abundant ironstone.

PALEOCENE-EOCENE

WILCOX GROUP

Wilcox Group, undifferentiated—Grayish very fine to fine sand, typically clayey, rarely with sparse granules, in places with silty or silty clay interlaminations and/or channel cutouts. Typically of gray or light gray coloration with yellow-brown to red mottles in places, ranging to very pale brown with dark yellowish brown mottles; includes gray weathering to strong brown, pale yellow weathering to olive yellow, and pale brown weathering to dark yellowish brown hues. In places contains carbonaceous beds, petrified wood, and ironstone, with ironstone concretions up to 25 cm in diameter. A reddish or grayish to brownish weathering mantle up to 2 m thick is developed locally.

Open Water, Inundated Area, Swamp

Contact—includes inferred contacts.

Streams

Topographic Contours

Sources:

Durham, C. O., Jr., and C. R. Smith, 1958, Louisiana Midway-Wilcox correlation problems: Louisiana Department of Conservation, Louisiana Geological Survey, Geological Pamphlet

Albertson, P. E., and J. B. Dunbar, 1993, Geomorphic Investigation of Shreveport to Daingerfield Navigation Project: U.S. Army Corps of Engineers Waterway Experiment Station, Vicksburg, Mississippi, Technical Report no. GL-93-31, 148p.

Smith, C. R. (1970), (Geologic Map of Caddo Parish, Louisiana): Unpublished map, Louisiana Geological Survey, Baton Rouge, Louisiana, scale 1:62,500.

References

Andersen, H. V., 1993, Geology of Natchitoches Parish: Louisiana Geological Survey, Geological bulletin no. 44, 227 p. plus plates (includes one 1:62,500-scale geologic map).

Andersen, H. V., 1960, Geology of Sabine Parish: Louisiana Department of Conservation, Louisiana Geological Survey, Geological bulletin no. 34, 164 p. plus plates (includes one 1:62,500-scale geologic map).

The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government or the state of Louisiana.

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 regional geologic quadrangles are intended for use at the scale of 1:24,000. A detailed on-the-ground survey and analysis of a specific site may differ from these maps.