

Description of Map Units

QUATERNARY SYSTEM

HOLOCENE

**Ha Alluvium**—undifferentiated deposits of small upland streams; unconsolidated alluvial deposits of minor streams and creeks filling valleys incised into older deposits, with textures varying from gravelly sand to sandy mud.

PLEISTOCENE

PRAIRIE ALLOGROUP

**Pp Prairie Allgroup, undifferentiated**—diverse depositional sequence of deposits of the Mississippi River, its tributaries, and coastal plain streams; includes terraced fluvial (meander belt, backswamp, and braided stream), colluvial, estuarine, deltaic, and marine units deposited during the Wisconsin to Sangamon interval of the late Pleistocene. Multiple levels along alluvial valleys and coast-parallel trends are grouped into two principal temporal phases. The Prairie Allgroup is undifferentiated where fluvial terrace remnants flank headward portions of stream courses.

**Ppl Upper Prairie Allgroup**—Younger of Prairie Allgroup temporal phases, consisting of alluvial deposits of ancestral late Pleistocene streams. Grayish-white to reddish-white and light red very fine to medium sand to silt, with clay, to sandy mud, in places including beds of gravelly sand and sandy gravel of chert and vein quartz. Weathers to yellow, orange, and/or brownish-tan hues.

TERTIARY SYSTEM

PLIOCENE

UPLAND ALLOGROUP

**Puw Willis Formation, undifferentiated**—deeply dissected alluvial sediments deposited by Pliocene streams in west-central Louisiana. The unit is unconformably underlain by Tertiary formations of Miocene to Eocene age, and is bounded downip by the Lissie surface.

MIOCENE

FLEMING GROUP

**Mfcb Carnahan Bayou Formation**—texturally heterogeneous suite of generally poorly sorted sediments comprising varying admixtures of sand/sandstone, with granules in places; silt/siltstone; and clay/mud. Primarily clayey very fine to fine sand containing some coarse and very coarse sand with some granules. Granules and pebbles include both quartz and rock fragments, with granules comprising predominantly quartz, and pebbles and cobbles consisting mostly of rock fragments; the rock fragments comprise both light-colored clay/mud rip-up clasts, and in places, dark or black chert. Includes petrified wood and thin tuffaceous beds locally.

**Mfl Lena Formation**—texturally heterogeneous suite of generally poorly sorted sediments comprising clay, with and without admixed sand and silt; silt/siltstone, mostly without substantial admixed clay; and sand/sandstone, with and without admixed clay. Includes calcareous clay, containing characteristic calcareous nodules, and tuffaceous clays in places. Weathers locally to produce a brownish gray to lightish surface sand, and may weather to black soil.

**Open Water, Inundated Area, Wetland**

**Streams**

**Contact**—includes inferred contacts.

**Topographic Contours**

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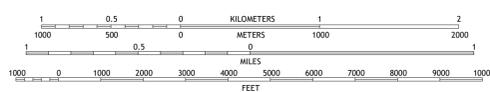
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SCALE 1:24,000

Base map from U.S. Geological Survey 1:24,000 GeoPDF  
National Geospatial Program US Topo Product Standard, 2011.  
Universal Transverse Mercator Projection, Zone 15  
North American Datum 1983 (NAD 83)  
Contour Interval 10 Feet  
North American Vertical Datum 1988

1	2	3
4	5	6
7	8	

ADJOINING QUADRANGLES



ROAD CLASSIFICATION	
Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	RDW
Interstate Route	US Route
	State Route

Base Map	United States Geological Survey, 2020
Boundaries	.....LADOTD, 2007
Contours	.....National Elevation Dataset, 2008 - 2011
Hydrography	.....National Hydrography Dataset, 2002 - 2017
Names	.....GNIS, 1980 - 2017
Roads	.....U.S. Census Bureau, 2017
Wetlands	.....FWS National Wetlands Inventory 2021

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Geologic Map of the Dowden Creek 7.5 minute quadrangle Sabine and Vernon Parishes, Louisiana