



MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF GEOLOGY
OPEN-FILE REPORT 288

GEOLOGIC MAP
of the
THREE RIVERS QUADRANGLE
Jackson County, Mississippi



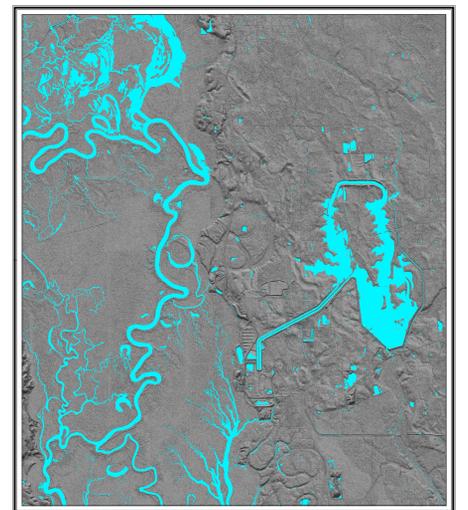
Geology by James E. Starnes, RPG
and Lindsey Stewart

2018

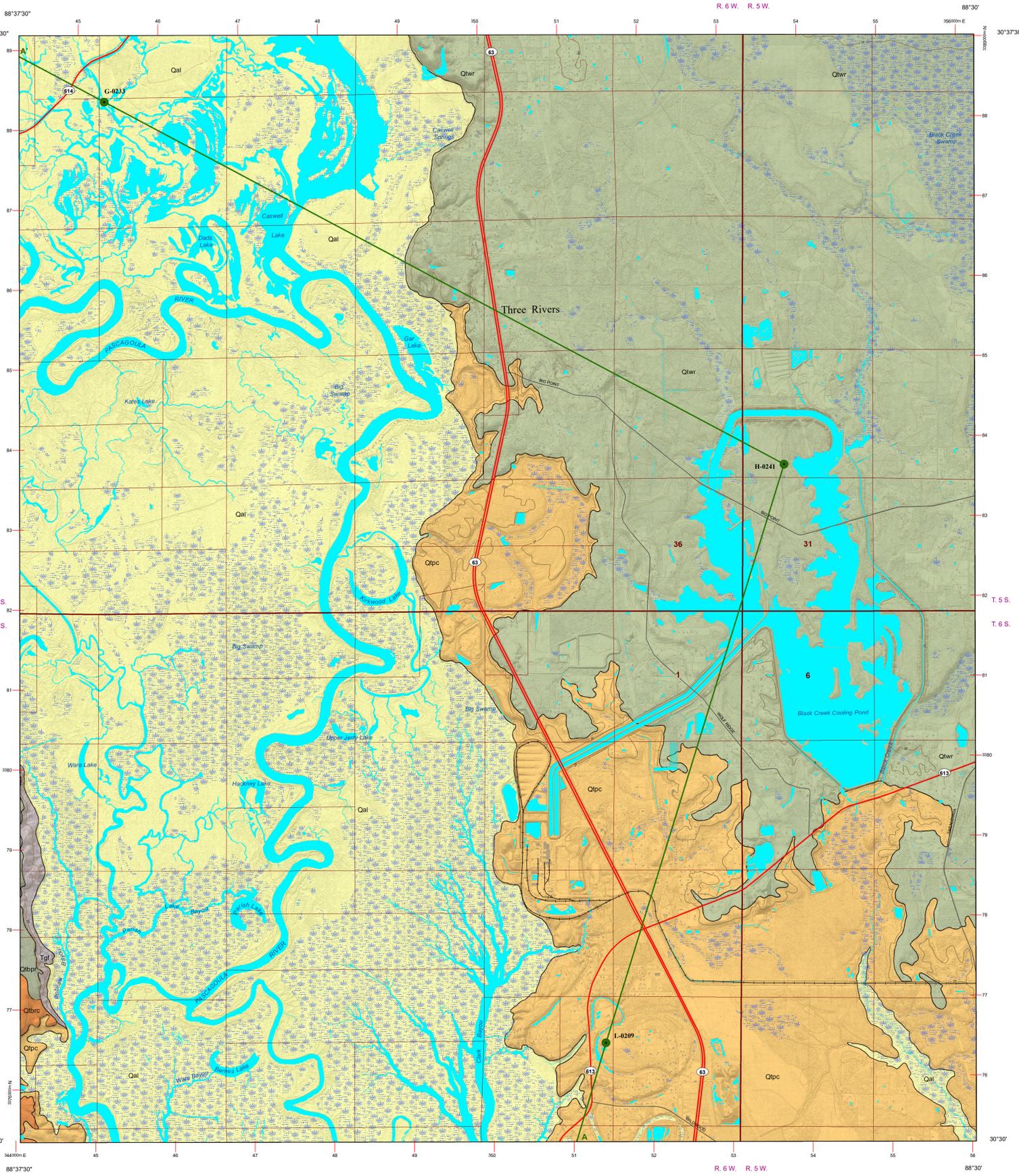
DESCRIPTION OF MAP UNITS

QUATERNARY	HOLOCENE	Qal	ALLUVIUM Flood plain sands, silts, gravels, and clays.
	PLEISTOCENE	Qtpc	PAMLICO COASTAL TERRACE Sand, orange to tan colored, fine- to coarse-grained, predominantly quartzose, cross-bedded to massive; graveliferous, pea- to cobble-size, predominantly leached to chalky brown, gray, and white-colored chert and milky quartz; clay, kaolinitic, pink to white, generally occurring as discontinuous lenses. Ferruginous sandstone and pyroclastic common in basal contact with the underlying Graham Ferry Formation.
		Qtbr	BIG RIDGE COASTAL TERRACE Sand, orange to tan colored, fine- to coarse-grained, predominantly quartzose, cross-bedded to massive; graveliferous, pea- to cobble-size, predominantly leached to chalky brown, gray, and white-colored chert and milky quartz; clay, kaolinitic, pink to white, generally occurring as discontinuous lenses. Ferruginous sandstone and pyroclastic common in basal contact with the underlying Graham Ferry Formation.
		Qtwr	WADE RIVER TERRACE Sand, orange to tan colored, fine- to coarse-grained, predominantly quartzose, cross-bedded to massive; graveliferous, pea- to cobble-size, predominantly leached to chalky brown, gray, and white-colored chert and milky quartz; clay, kaolinitic, pink to white, generally occurring as discontinuous lenses. Ferruginous sandstone and pyroclastic common in basal contact with the underlying Graham Ferry Formation.
TERTIARY	PLIOCENE	Tgf	GRAHAM FERRY FORMATION Sand, dark greenish-gray, yellow to tan, micaceous and glauconitic (exclusively in the fine-grained sands), fine- to coarse-grained, predominantly quartzose, cross-bedded to massive. Weathers to orange, purple, red, pink with reddish-brown colored pebbly ironstone residuum; Clay, green, gray, brown, weathers mottled purple to pink and white to reddish-brown, silty to fine-sandy, locally lignitic and contains pyritic nodules in places.

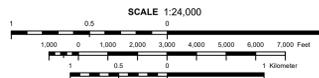
H-0241 Drill-hole locality and identification number



Composite Bare Earth LIDAR 2015 VE X10 Hillshade of the Three Rivers Quadrangle



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Jackson County, Mississippi



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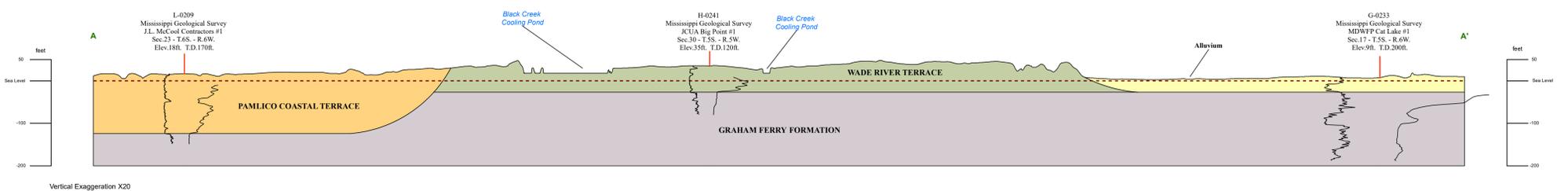
Geology field checked in 2016 - 2017 using the 1982, Provisional Edition, United States Geological Survey (USGS) 7.5-minute topographic quadrangle, Universal Transverse Mercator projection, 1927 North American Datum, contour interval 5 feet, Universal Transverse Mercator projection, 1983 North American Datum, GRS80 spheroid, 1000-meter Universal Transverse Mercator 1983 datum grid ticks, zone 16, shown in red. January 01, 2015, magnetic declination in quadrangle center is 1°55' west of true north, ± 0°20' uncertainty, changing by 0°7' west per year.

Sources: Contours derived from Mississippi Automated Resource Information System (MARIS); Public Land Survey System, 1:24,000 scale, from MARIS; water features from the MS Coordinating Council for Remote Sensing and Geographic Information Systems (MCRS/GIS) MDEM 2007 Coastal Region Dataset; road features derived from the Mississippi Department of Transportation (MDOT) 2015 road centerlines; Declination, National Oceanic and Atmospheric Administration (NOAA). We thank the Jackson County Utility Authority, Mississippi Department of Wildlife Fisheries and Parks, and J.L. McCoil Contractors, Inc. for their cooperation and for facilitating the data collection and field work necessary for this mapping project. Light Detection and Ranging (LIDAR) 2015 (0.7-meter nominal point spacing) project from the Mississippi Department of Environmental Quality (MDEQ), Mississippi State University (MSU), USGS, NOAA, and Natural Resources Conservation Service (NRCS).

Geographic Information System by Daniel W. Morse. MDEQ does not warrant the accuracy or completeness of the source data. Geologic maps are only a guide to current understanding and do not eliminate the need for detailed investigations of specific sites for specific purposes.

This map was produced by the Mississippi Office of Geology in cooperation with the United States Geological Survey, National Cooperative Geologic Mapping Program, under STATEMAP grant #G17AC00196.

Structural Cross-Section of the Three Rivers 7.5-Minute Geologic Quadrangle



Vertical Exaggeration X20

