


1. SOUNDED JANUARY 14, 2021 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

Depths shown are below LWRP2014 SURFACE
 Red solid contours are 9' below LWRP2014 SURFACE
 Green dashed contours are 12' below LWRP2014 SURFACE
 Blue dashed contours are 14' below LWRP2014 SURFACE

JANUARY 14, 2021
 INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 10:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 10:00	LWRP DIF @ 13:00
41	309.18	309.19	301.84	7.34	7.35
42	309.68	309.68	302.79	6.89	6.89
43	310.18	310.17	303.56	6.62	6.61



US Army Corps of Engineers
St. Louis District

CAPE GRADEAL NO	GRAY'S POINT NO	THEBES, L	COMMERCE NO
304.27	300.79	299.71	101.60
52.1	46.3	43.7	19.5
309.62	305.81	304.61	301.12
14 JAN 2021 12:56:00(00) 12.6813(00)	11:55:00(00) 11.4913(00)	10:52:00(00) 10.8613(00)	6:51:00(00) 6.8613(00)

Surveyed by: BOWEN ENGINEERING	Survey Date: JANUARY 14, 2021	Cred by: X
Drawn by: X	Reviewed by: X	APPROVED: X
SUBMITTED: X	Plot date: #	File name: #

U.S. ARMY ENGINEER DIVISION
 CORPS OF ENGINEERS
 ST. LOUIS, MISSOURI
 UPPER MISSISSIPPI RIVER BASIN
 MISSISSIPPI RIVER

PRE DREDGE SURVEY
 RIVER MILES 42.5 - 41.5

PLATE NUMBER
 XX