

SURVEY NOTES:


- 1) HORIZONTAL DATUM:
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
- 2) VERTICAL DATUM:
NAVD88 (GEOID18), FOOT
- 3) DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.
- 4) SURVEY INFORMATION:
SURVEY VESSEL: BOWEN1 (24' SCULLY'S WORK BOAT)
ECHO SOUNDER: TELEDYNE ECHOTRAC E20
TRANSDUCER: ODOM SMSW200-4 (4" BEAM, 200 KHz)
SOUND VELOCITY SOURCE: VALEPORT SWIFT SVP
INS: SBG ELLIPSE2-E-G4A2-B1
GNSS RECEIVER: TRIMBLE MPS865 WITH DUAL ANTENNAS
GNSS SOURCE: TRIMBLE CENTERPOINT RTX
TIDE METHOD: REAL-TIME KINEMATIC
TIDE SOURCE: TRIMBLE CENTERPOINT RTX
- 5) THE SURVEY WAS COMPLETED IN ACCORDANCE WITH QUALITY CONTROL PLAN PROCEDURES.

**DECEMBER 14 2023
INTERPOLATED WATER SURFACE ELEVATIONS**

MILE	WSE @ 10:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 10:00	LWRP DIF @ 13:00
165	370.79	370.64	368.03	2.76	2.61
166	371.28	371.12	368.31	2.98	2.81
167	371.76	371.60	368.58	3.18	3.02
168	372.24	372.08	369.21	3.03	2.87

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
151.9	Herculeanum, MO	368.23	10:00	-3.77	13:00	-3.86
168.7	Jefferson Barracks, MO	377.34	10:00	-4.76	13:00	-4.93



St. Louis District

DATES OF SURVEY: DECEMBER 14, 2023	FILE NO.: 1671423 REQUEST NO.: W91P23P0086
SCALE: 1" = 800' (ANSI B)	FIELD BOOKS:
APPROVED: FIELD CARTOGRAPHER CIVIL ENGINEERING TECHNICIAN ASST. CHIEF OF SURVEY CHIEF OF SURVEY	DATE:
U.S. ARMY CORPS OF ENGINEERS ST. LOUIS, MISSOURI	
SURVEYED BY: BOWEN ENGINEERING AND SURVEYING, P.C. 2121 MEGAN DRIVE CAPE GIRARDEAU, MO 63701	
UPPER MISSISSIPPI RIVER BASIN MISSISSIPPI RIVER PRE DREDGE SURVEY RIVER MILES 167.4 - 165.6	
SHEET NO.	

1 of 1

