



St. Louis District

DATE OF SURVEY:
NOVEMBER 15, 2023

SCALE:
1" = 800' (ANSI B)

FIELD BOOKS:
FILE NO.: 058K1523
TASK NO.: W912P923F0086

Approved: _____
FIELD CARTOGRAPHER
Approved: _____
CIVIL ENGINEERING TECH
Approved: _____
ASST. CHIEF OF SURVEY
Approved: _____
CHIEF OF SURVEY
Date: _____

U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI
RIVER BASIN
MISSISSIPPI RIVER
PRE DREDGE SURVEY
RIVER MILES 59.0 - 57.9

SHEET NO.
1 OF 1

NOVEMBER 15, 2023 INTERPOLATED WATER SURFACE ELEVATIONS

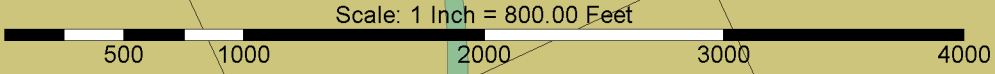
MILE	WSE @ 9:00	WSE @ 14:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 14:00
57	314.58	314.54	312.45	2.13	2.09
58	315.12	315.09	313.01	2.11	2.08
59	315.67	315.64	313.58	2.09	2.06

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
52.1	Cape Girardeau, MO	304.27	9:00	7.64	14:00	7.59
66.3	Moccasin Springs, MO	313.33	9:00	6.31	14:00	6.30
81.9	Grand Tower, IL	321.43	9:00	6.44	14:00	6.42

SURVEY NOTES:

- HORIZONTAL DATUM:
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
- VERTICAL DATUM:
NAVD88 (GEOID18), FOOT
- DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.
- 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
- THE SURVEY WAS COMPLETED IN ACCORDANCE WITH QUALITY CONTROL PLAN PROCEDURES.



ILLINOIS

MISSOURI

North

59

58

Devils Island / Swains Tower

River Mile 157.9

