



St. Louis District



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.

**OCTOBER 26, 2023
INTERPOLATED WATER SURFACE ELEVATIONS**

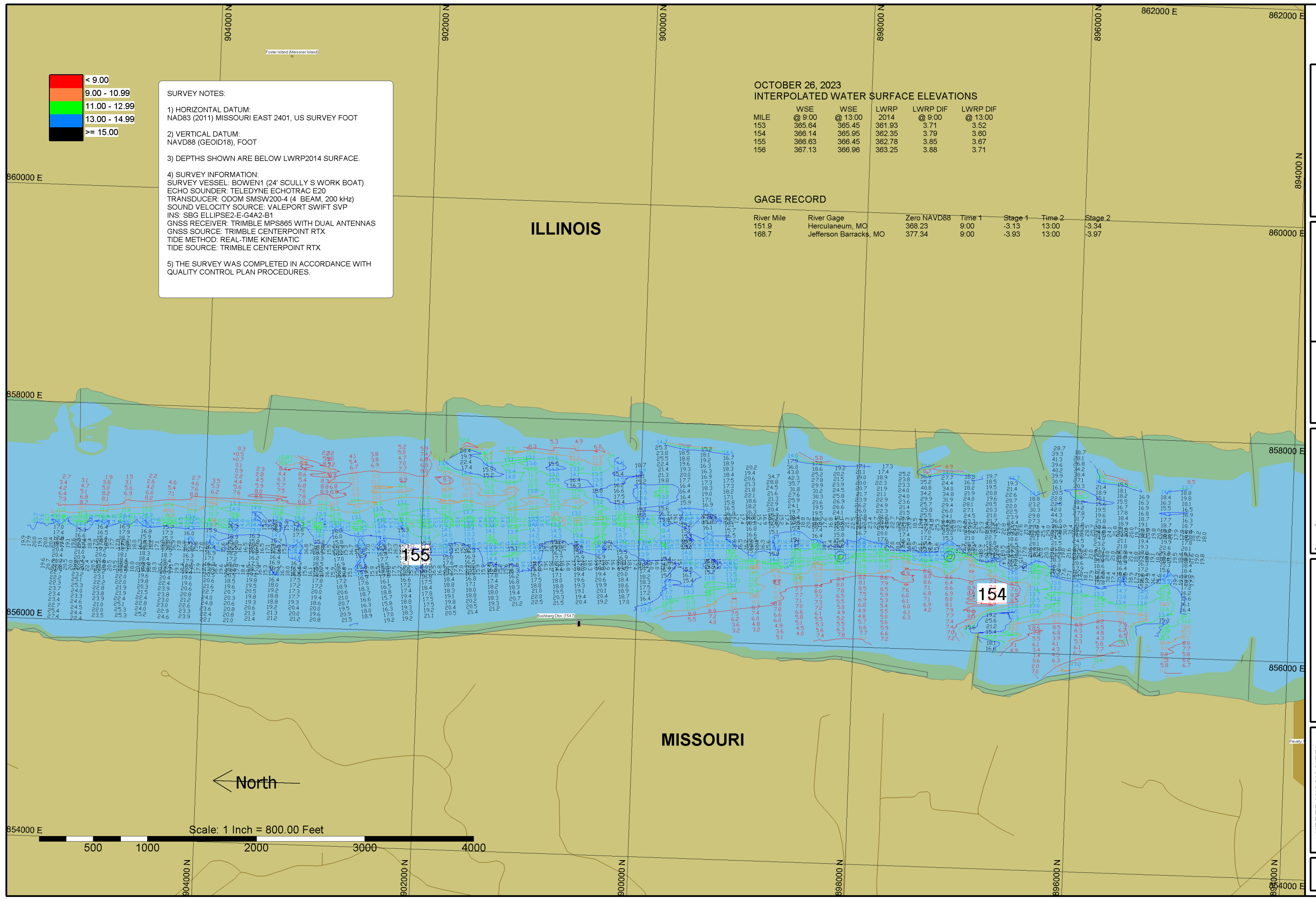
MILE	WSE @ 9:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 13:00
153	365.64	365.45	361.93	3.71	3.52
154	366.14	365.95	362.35	3.79	3.60
155	366.63	366.45	362.78	3.85	3.67
156	367.13	366.96	363.25	3.88	3.71

GAGE RECORD

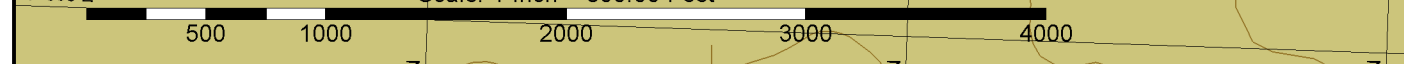
River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
151.9	Herculeaneum, MO	368.23	9:00	-3.13	13:00	-3.34
168.7	Jefferson Barracks, MO	377.34	9:00	-3.93	13:00	-3.97

ILLINOIS

MISSOURI



Scale: 1 Inch = 800.00 Feet



DATE OF SURVEY:
OCTOBER 26, 2023

SCALE:
1" = 800' (ANSI B)

FIELD BOOKS:
FILE NO.: 155J2623
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

SURVEYED BY:
BOWEN ENGINEERING & SURVEYING, P.C.
2121 MEGAN DRIVE, CAPE GIRARDEAU, MO

UPPER MISSISSIPPI
RIVER BASIN
MISSISSIPPI RIVER

POST DREDGE SURVEY
RIVER MILES 155.6 - 153.7

SHEET NO.
1 OF 1