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.

AUGUST 25, 2023
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 11:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 11:00
160	368.86	368.88	365.09	3.77	3.79
161	369.32	369.34	365.70	3.62	3.64
162	369.79	369.80	366.31	3.48	3.49

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
151.9	Herculaneum, MO	368.23	9:00	-3.15	11:00	-3.08
168.7	Jefferson Barracks, MO	377.34	9:00	-4.43	11:00	-4.45

ILLINOIS

MISSOURI

62

161

160

Meramec River Entrance Lt. (160.6)

Chesley Island

Arnold, MO

N

Scale: 1 Inch = 800.00 Feet

500 1000 2000 3000 4000 Feet

E 872,000 N 932,000 N 930,000 E 870,000 N 928,000 E 868,000 N 926,000 E 866,000 N 934,000 E 872,000 E 864,000 N 926,000 N 936,000 E 868,000 E 862,000 N 928,000 E 866,000 N 936,000 N 934,000 E 864,000 N 932,000 E 862,000 N 930,000 N 938,000

St. Louis District

DATES OF SURVEY:
AUGUST 25, 2023

FILE NO.: 161H2523
REQUEST NO.: W912P923F0086

SCALE:
1" = 800' (ANSI B)

FIELD BOOKS:

Approved: FIELD CARTOGRAPHER
Approved: CIVIL ENGINEERING TECHNICIAN
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 AND SURVEYING, P.C.
2121 MEDIAN DRIVE
CAPE GIRARDEAU, MO 63701

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER
PRE DREDGE SURVEY
RIVER MILES 161.5 - 160.2

SHEET NO.
1 OF 1