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: ODOM DIGIBAR S VELOCIMETER
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.

SEPTEMBER 1, 2022
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 14:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 14:00
131	356.37	356.45	351.63	4.74	4.82
132	356.88	356.95	352.17	4.71	4.78
133	357.39	357.46	352.68	4.71	4.78

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
109.9	Chester, IL	340.73	9:00	4.80	14:00	5.12
151.9	Herculaneum, MO	368.23	9:00	-1.13	14:00	-1.28

ILLINOIS
Fort Chartres Ldg
Fort Chartres Island
ILLINOIS
CJB
0056_1239.sos
Fl(2)R 6s (priv)
CJB
Fl(2)R 5s
Fort Chartr
MISSOURI
Establishment Chute
Schmidts Island
MISSOURI
Establishment Island
N
Scale: 1 Inch = 800.00 Feet
500 1000 2000 3000 4000 Feet
N 818,000
E 920,000
E 922,000
E 924,000
N 816,000
E 926,000
E 928,000
E 930,000
N 810,000
E 918,000
E 920,000
E 922,000
E 924,000
N 808,000
E 926,000
133
131

St. Louis District

DATES OF SURVEY: SEPTEMBER 1, 2022
FILE NO.: 13201/22
REQUEST NO.: W912P922F0051

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 MEGAN DRIVE
CAPE GIRARDEAU, MO 63701

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER
PRE DREDGE SURVEY
RIVER MILES 132.4 - 131.5

SHEET NO.
1 OF 1