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 SMSIW200-4 (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.

Santa Fe Chute

Burnham Island

ILLINOIS

Little Island

Little

MISSOURI

Allen Towhead

N

Scale: 1 Inch = 800.00 Feet

500 1000 2000 3000 4000 Feet

N 484,000 E 1,136,000 N 482,000 E 1,136,000 N 480,000 E 1,136,000 N 478,000 E 1,136,000 N 476,000 E 1,136,000 N 474,000 E 1,132,000 N 472,000 E 1,128,000 N 480,000 E 1,130,000 N 478,000 E 1,130,000 N 476,000

NOVEMBER 8, 2022
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 14:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 14:00
37	302.71	302.76	299.32	3.39	3.44
38	303.33	303.37	300.08	3.25	3.29
39	303.94	303.98	300.72	3.22	3.26

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
28.2	Price Landing, MO	298.95	9:00	-1.64	14:00	-1.58
39.5	Commerce, MO	301.60	9:00	2.65	14:00	2.69

St. Louis District

DATES OF SURVEY:
NOVEMBER 8, 2022

FILE NO.: 038K0822
REQUEST NO.: W912P923F0004

SCALE:
1" = 800' (ANSI B)

FIELD BOOKS:

Approved: FIELD HYDROGRAPHER
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'S, P.C.
2121 MEGAN DRIVE
CAPE GIRARDEAU, MO 63701

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER
PRE DREDGE SURVEY
RIVER MILES 38.5 - 37.0

SHEET NO.
1 OF 1