



St. Louis District

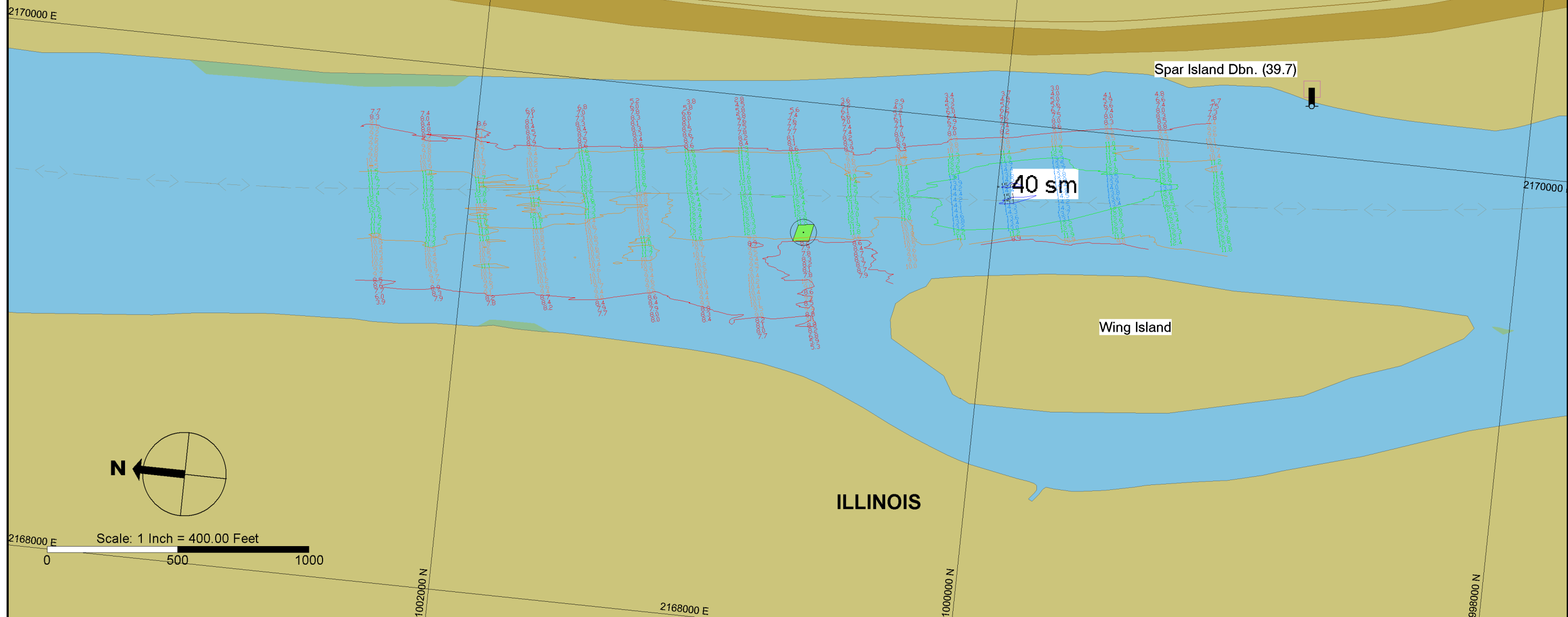
Date	Gage	River Mile	DMG	Time	Stage	NGVD29	NGVD29	NGVD29	NAVD88	NAVD88	NAVD88	Min. Pool Difference
						Zero	WS Elev	Min. Pool	Zero	WS Elev	Min. Pool	
20231023	Hardin, IL	21.5	113,378	11:00	20.13	400.00	420.13	418.20	399.10	419.23	417.30	1.93
				18:00	20.06	400.00	420.06	418.20	399.10	419.16	417.30	1.86
20231023	Florence, IL	56.0	294,803	11:00	21.35	400.00	421.35	418.80	399.04	420.39	417.84	2.55
				18:00	21.38	400.00	421.38	418.80	399.04	420.42	417.84	2.58

**SURVEY NOTES:**

- HORIZONTAL DATUM:  
NAD83 (2011) ILLINOIS WEST 1202, US SURVEY FOOT
- VERTICAL DATUM:  
NAVD88 (GEOID18), FOOT
- DEPTHS SHOWN ARE BELOW MINIMUM POOL 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



DATE OF SURVEY:  
OCTOBER 23, 2023

FILE NO.: 040J2323  
TASK NO.: W912P923F0113

SCALE:  
1" = 400' (ANSI B)

FIELD BOOKS:

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  
ILLINOIS RIVER

POST DREDGE SURVEY  
RIVER MILES 40.4 - 39.9

SHEET NO.  
1 OF 1