

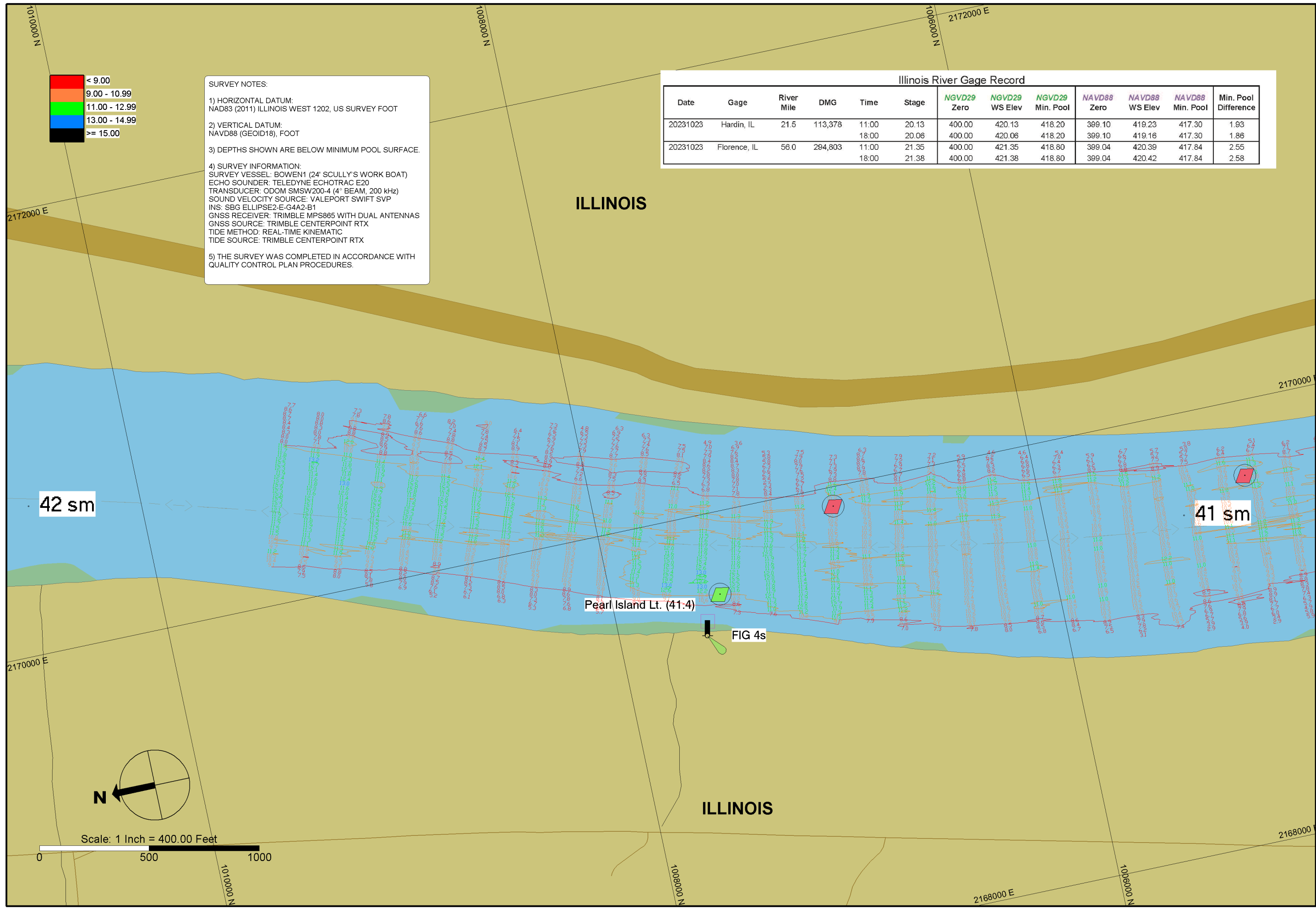
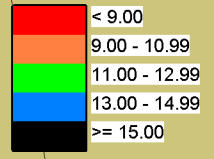


St. Louis District

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:**

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



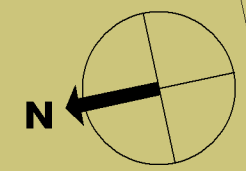
42 sm

41 sm

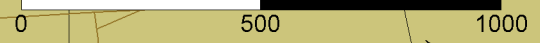
Pearl Island Lt. (41:4)

FIG 4s

ILLINOIS



Scale: 1 Inch = 400.00 Feet



DATE OF SURVEY:  
 OCTOBER 23, 2023  
 FILE NO.: 041J2323  
 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  
 PRE DREDGE SURVEY  
 RIVER MILES 41.7 - 40.0

SHEET NO.  
 1 OF 2



St. Louis District

SCALE: 1" = 400' (ANSI B)

DATE OF SURVEY: OCTOBER 23, 2023

FIELD BOOKS: FILE NO.: 041J2323  
TASK NO.: W012P923F0113

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

PRE DREDGE SURVEY  
RIVER MILES 41.7 - 40.0

SHEET NO.  
2 OF 2

Illinois River Gage Record												
Date	Gage	River Mile	DMG	Time	Stage	NGVD29	NGVD29	NGVD29	NAVD88	NAVD88	NAVD88	Min. Pool Difference
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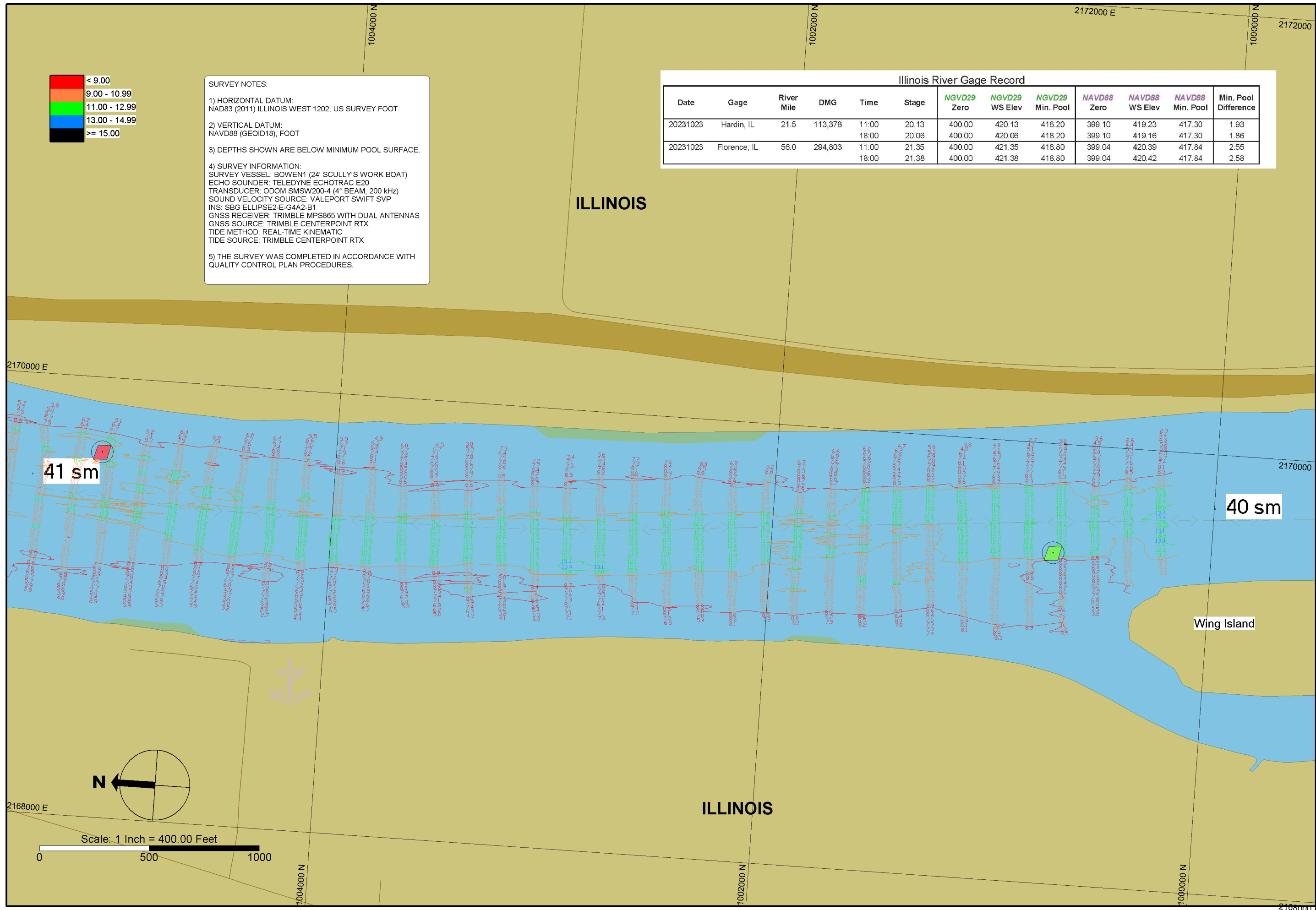
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ILLINOIS

ILLINOIS

Wing Island