

**SURVEY NOTES:**

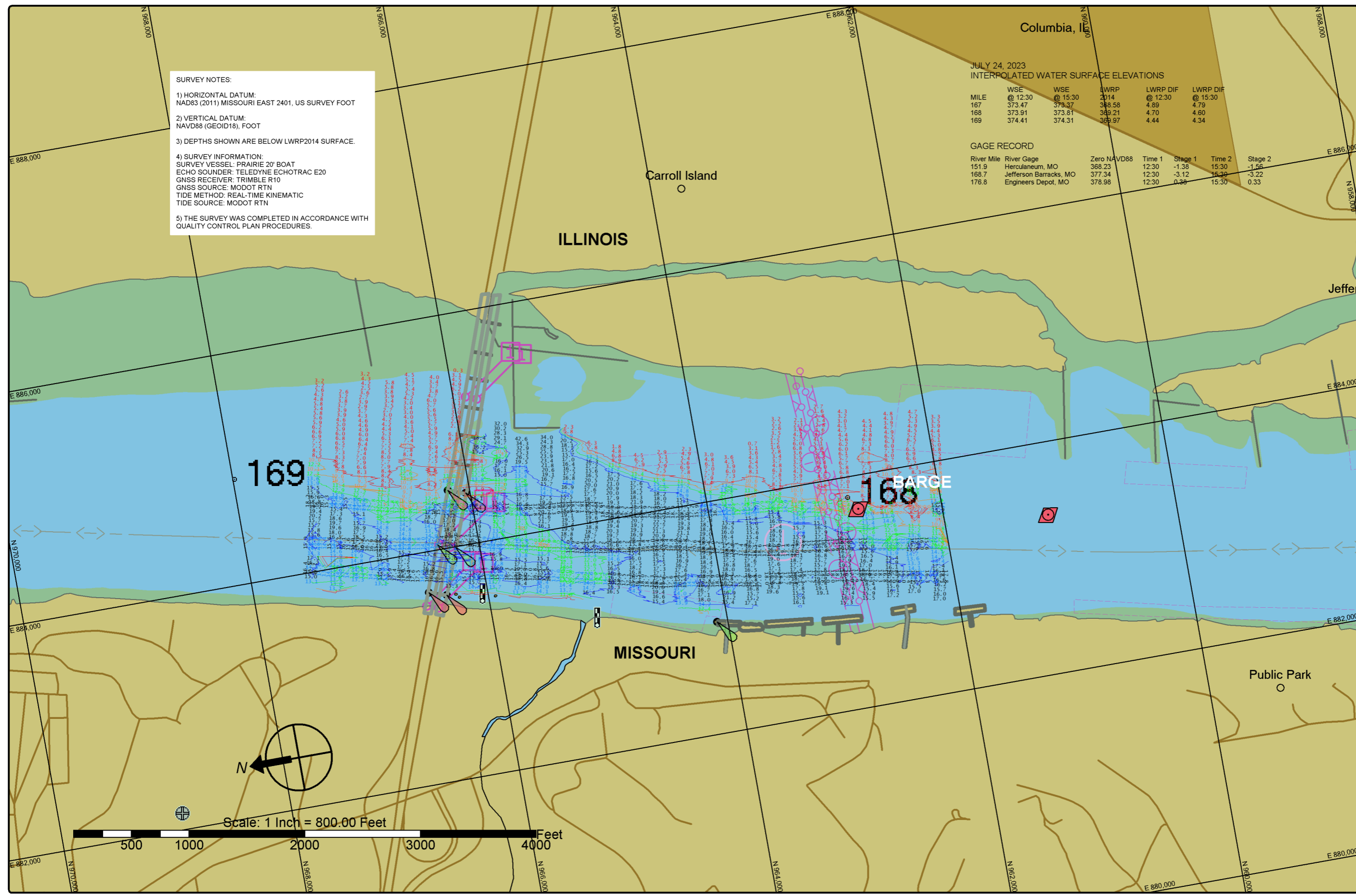
- 1) HORIZONTAL DATUM:  
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
- 2) VERTICAL DATUM:  
NAVD88 (GEOID18), FOOT
- 3) DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.
- 4) SURVEY INFORMATION:  
SURVEY VESSEL: PRAIRIE 20' BOAT  
ECHO SOUNDER: TELEDYNE ECHOTRAC E20  
GNSS RECEIVER: TRIMBLE R10  
GNSS SOURCE: MODOT RTN  
TIDE METHOD: REAL-TIME KINEMATIC  
TIDE SOURCE: MODOT RTN
- 5) THE SURVEY WAS COMPLETED IN ACCORDANCE WITH QUALITY CONTROL PLAN PROCEDURES.


JULY 24, 2023  
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 12:30	WSE @ 15:30	LWRP 2014	LWRP DIF @ 12:30	LWRP DIF @ 15:30
167	373.47	373.37	368.58	4.89	4.79
168	373.91	373.81	349.21	4.70	4.60
169	374.41	374.31	369.97	4.44	4.34

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
151.9	Herculaneum, MO	368.23	12:30	-1.38	15:30	-1.56
168.7	Jefferson Barracks, MO	377.34	12:30	-3.12	15:30	-3.22
176.8	Engineers Depot, MO	378.98	12:30	0.38	15:30	0.33





St. Louis District


<p><b>DATES OF SURVEY:</b> JULY 24, 2023</p>	<p><b>FILE NO.:</b> 188G243 <b>REQUEST NO.:</b> W91P2023F086</p>
<p><b>SCALE:</b> 1" = 800' (ANSI B)</p>	<p><b>FIELD BOOKS:</b>  </p>

<p><b>Approved:</b> _____ <small>FIELD CROCODRIVER</small></p>	<p><b>Approved:</b> _____ <small>CIVIL ENGINEERING TECHNICIAN</small></p>
<p><b>Approved:</b> _____ <small>ASST. CHIEF OF SURVEY</small></p>	<p><b>Approved:</b> _____ <small>CHIEF OF SURVEY</small></p>
<p><b>Date:</b> _____</p>	

<p><small>U.S. ARMY CORPS OF ENGINEERS ST. LOUIS DISTRICT ST. LOUIS, MISSOURI</small></p>	<p><small>SURVEYED BY: PRAIRIE ENGINEERS, P.C. PROCESSED BY: BOYEN ENGINEERING AND SURVEYING, P.C.</small></p>
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<p>UPPER MISSISSIPPI RIVER BASIN MISSISSIPPI RIVER PRE DREDGE SURVEY RIVER MILES 168.9 - 167.9</p>	<p><b>SHEET NO.</b>  1 OF 1</p>
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