



1. SOUNDED AUGUST 18, 2020 BY  
BOWEN ENGINEERING AND SURVEYING.

2. HORIZONTAL DATUM IS BASED ON THE  
NORTH AMERICAN DATUM OF 1983 (NAD 83).  
COORDINATES SHOWN ARE MISSOURI EAST  
ZONE STATE PLANE.

3. VERTICAL DATUM IS BASED ON THE NORTH  
AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

Depths shown are below LWRP2014 SURFACE  
 Red solid contours are 9' below LWRP2014 SURFACE  
 Green dashed contours are 12' below LWRP2014 SURFACE  
 Blue dashed contours are 14' below LWRP2014 SURFACE

AUGUST 18, 2020  
INTERPOLATED WATER SURFACE ELEVATIONS

| MILE | WSE     |         | LWRP<br>2014 | LWRP DIF |         |
|------|---------|---------|--------------|----------|---------|
|      | @ 10:00 | @ 15:00 |              | @ 10:00  | @ 15:00 |
| 160  | 377.02  | 377.01  | 365.09       | 11.93    | 11.92   |
| 161  | 377.51  | 377.50  | 365.70       | 11.81    | 11.80   |
| 162  | 377.99  | 377.99  | 366.31       | 11.68    | 11.68   |



|  |              |
|--|--------------|
| CHESTER I.L.                             | 340.73       |
| JEFFERSON BARRACKS BRICKEY'S LANDING, MO | 357.38       |
| ST. LOUIS, MO                            | 377.34       |
| ZERO N.A.V.D.                            | 379.58       |
| MILE                                     | 180.0        |
| LWRP 2014                                | 376.38       |
| 18 AUG 2020                              | 7.88(15:00)  |
| 12.02(10:00)                             | 13.91(15:00) |
| UNAVAILABLE                              | UNAVAILABLE  |
| 3.91(15:00)                              |              |

|  |                                 |
|--|---------------------------------|
| U.S. ARMY ENGINEER DIVISION<br>CORPS OF ENGINEERS<br>ST. LOUIS, MISSOURI | Survey Date:<br>AUGUST 18, 2020 |
| UPPER MISSISSIPPI RIVER BASIN<br>MISSISSIPPI RIVER                       | Drawn by:<br>X                  |
|  | Reviewed by:<br>X               |
|  | Submitted:<br>X                 |
|  | Approved:<br>X                  |
|  | Plot date:<br>##/##/##          |

170 0 100 200 300 400 500 METERS  
170 0 100 200 300 400 500 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A PRELIMINARY SURVEY. IT IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF THE U.S. ARMY CORPS OF ENGINEERS.

PRE DREDGE SURVEY  
RIVER MILES 161.3 - 160.0

PLATE  
NUMBER  
XX  
SHEET 1 OF 1