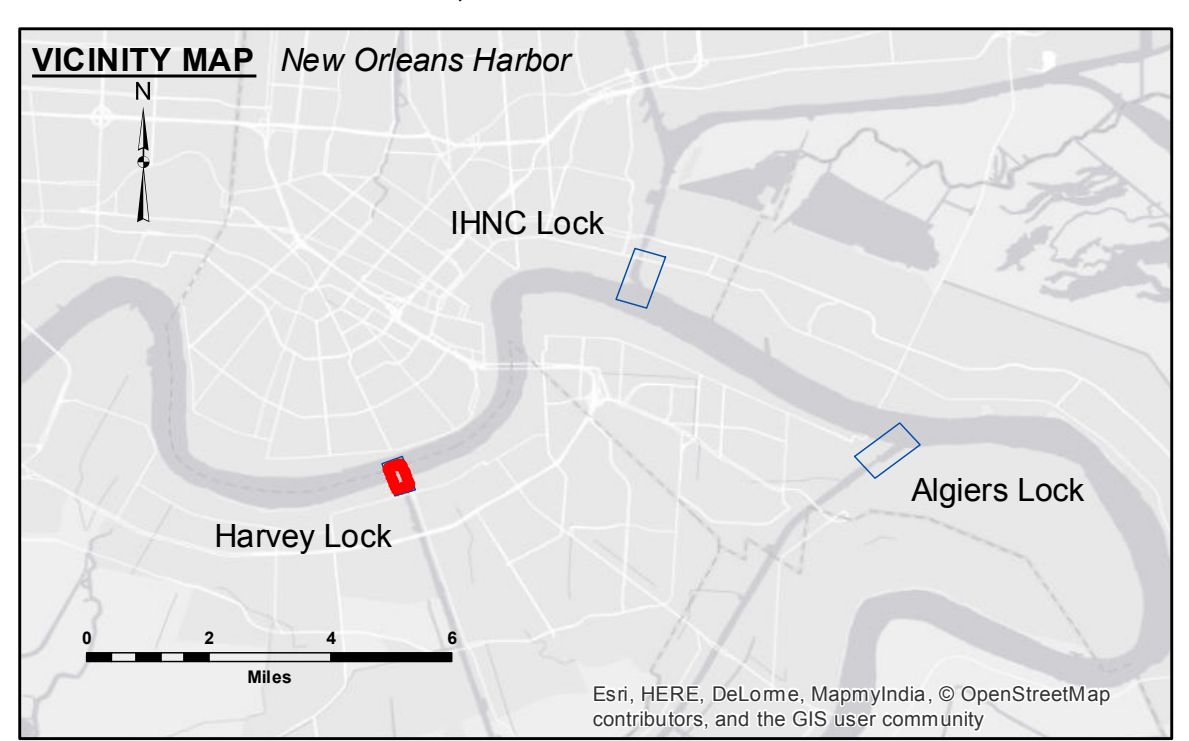


Access/Use: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that they are for informational purposes only. The data is not to be used for any purpose other than that for which it was collected. The user is responsible for the results of any use of the data. The application of the data for other than its intended purpose is not warranted. The data is not to be used for any purpose other than that for which it was collected. The user is responsible for the results of any use of the data. The application of the data for other than its intended purpose is not warranted.

Distribution Liability: The data represents the results of data collection processing for a specific US Army Corps of Engineers project. The data is not to be used for any purpose other than that for which it was collected. The user is responsible for the results of any use of the data. The application of the data for other than its intended purpose is not warranted.

Date Constraints: Hydrographic survey data is subject to change due to several factors including but not limited to dredging, sedimentation, and channel migration. The data is not to be used for any purpose other than that for which it was collected. The user is responsible for the results of any use of the data. The application of the data for other than its intended purpose is not warranted.



| LEGEND | | |
|----------------------------------|---------------------|-------------------------|
| --- Federal Navigation Channel | ○ Cable Area | □ Placement Area |
| — Federal Navigation Center Line | ■ Placement Area | ● Shoalest Sounding** |
| — As-built Pipeline/Cable | □ Anchorage Area | ☆ Beacon, General |
| Unconfirmed Pipeline/Cable | ⊗ Obstruction Point | ◆ Red Navigation Buoy |
| — Project Depth Contour | ⚓ Wrecks-Submerged | ◆ Green Navigation Buoy |
| | | ■ -8' and above |
| | | ■ -8' to -10' |
| | | ■ -10' to -12' |
| | | ■ -12' and below |

LWRP: N/A
Gage Reading: CARROLLTON: 4.9 MLG
Sea Conditions: CALM
Vessel Name: OB-169
Survey Type: AD
Sounding Frequency*:** 400KHZ

NOTES:
 Horizontal Coordinate System:
 North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Louisiana South Zone. Distance units in U.S. Survey Feet.
 Vertical Datum:
 Soundings are shown in feet and indicate depths below Mean Low Gulf (MLG).
 Distances on the Mississippi River, above and below Head of Passes are shown at 1 mile intervals.
 The location of navigation aids are base on and provided by the U.S. Coast Guard and USACE crew.
 2010 Aerial Photography data source: NAIP, USDA-FSA-APFO Aerial Photography Field Office.
 Reference is N.O.A. Navigation Chart No. 11370.
 ** Shoalest Sounding per Quarter per Reach.
 *** High frequency (200 kHz) survey data represents the first signal return at a sounding location and will include suspended solids, known as "fluff", if present. Low frequency (20 kHz) survey data normally penetrates through this "fluff" layer to depict elevations of consolidated bottom material. Low frequency accuracies may vary depending on channel conditions and fathometer settings.

| U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT | | |
|--|--------------------------|--------------------------------------|
| Submitted: | Surveyed By: PM/SC/BD | Plotted By: AO |
| Recommended: | Checked By: AO | Checked By: AO |
| Approved: | Chief, Survey Section | Chief, Waterways Maintenance Section |

**MISSISSIPPI RIVER DEEP-DRAFT LOCKS
 HARVEY LOCK FOREBAY
 LK_03_HVY_20170914_AD_5X5
 14 September 2017**

**Sheet Reference Number
 3 of 4**