



DISCUSSION: The data represented on this map were derived from a bathymetric survey conducted on the Calcasieu River, Louisiana, in 2013. The data were collected using a dual frequency (200 kHz) echosounder mounted on a survey vessel. The data were processed using the following parameters: Sounding Frequency: 200 kHz; Sounding Interval: 1.0 second; Sounding Depth: 100 feet; Sounding Accuracy: ±0.5 feet. The data were then projected to the State Plane Coordinate System (SPCS), Louisiana South Zone. The data were then used to generate the bathymetric map shown on this sheet. The data were collected and processed in accordance with the following standards: USACE Manual of Practice 100-1-100, 100-1-101, 100-1-102, 100-1-103, 100-1-104, 100-1-105, 100-1-106, 100-1-107, 100-1-108, 100-1-109, 100-1-110, 100-1-111, 100-1-112, 100-1-113, 100-1-114, 100-1-115, 100-1-116, 100-1-117, 100-1-118, 100-1-119, 100-1-120, 100-1-121, 100-1-122, 100-1-123, 100-1-124, 100-1-125, 100-1-126, 100-1-127, 100-1-128, 100-1-129, 100-1-130, 100-1-131, 100-1-132, 100-1-133, 100-1-134, 100-1-135, 100-1-136, 100-1-137, 100-1-138, 100-1-139, 100-1-140, 100-1-141, 100-1-142, 100-1-143, 100-1-144, 100-1-145, 100-1-146, 100-1-147, 100-1-148, 100-1-149, 100-1-150, 100-1-151, 100-1-152, 100-1-153, 100-1-154, 100-1-155, 100-1-156, 100-1-157, 100-1-158, 100-1-159, 100-1-160, 100-1-161, 100-1-162, 100-1-163, 100-1-164, 100-1-165, 100-1-166, 100-1-167, 100-1-168, 100-1-169, 100-1-170, 100-1-171, 100-1-172, 100-1-173, 100-1-174, 100-1-175, 100-1-176, 100-1-177, 100-1-178, 100-1-179, 100-1-180, 100-1-181, 100-1-182, 100-1-183, 100-1-184, 100-1-185, 100-1-186, 100-1-187, 100-1-188, 100-1-189, 100-1-190, 100-1-191, 100-1-192, 100-1-193, 100-1-194, 100-1-195, 100-1-196, 100-1-197, 100-1-198, 100-1-199, 100-1-200.

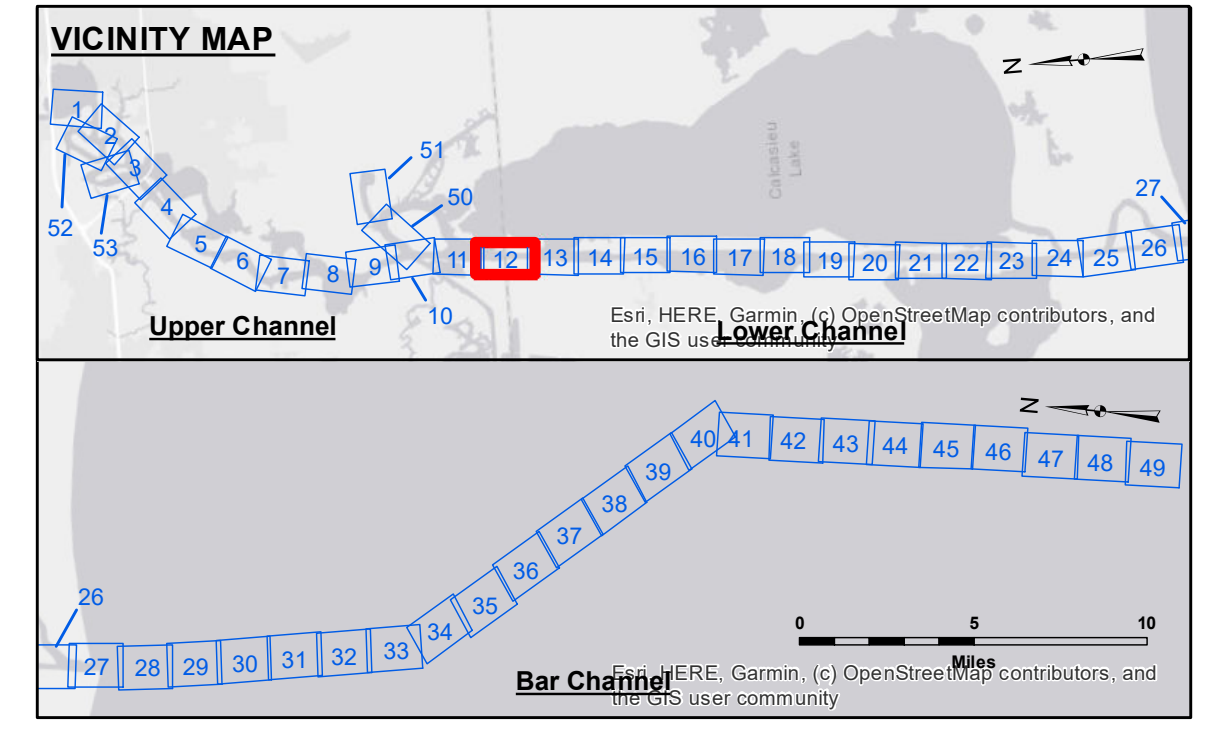
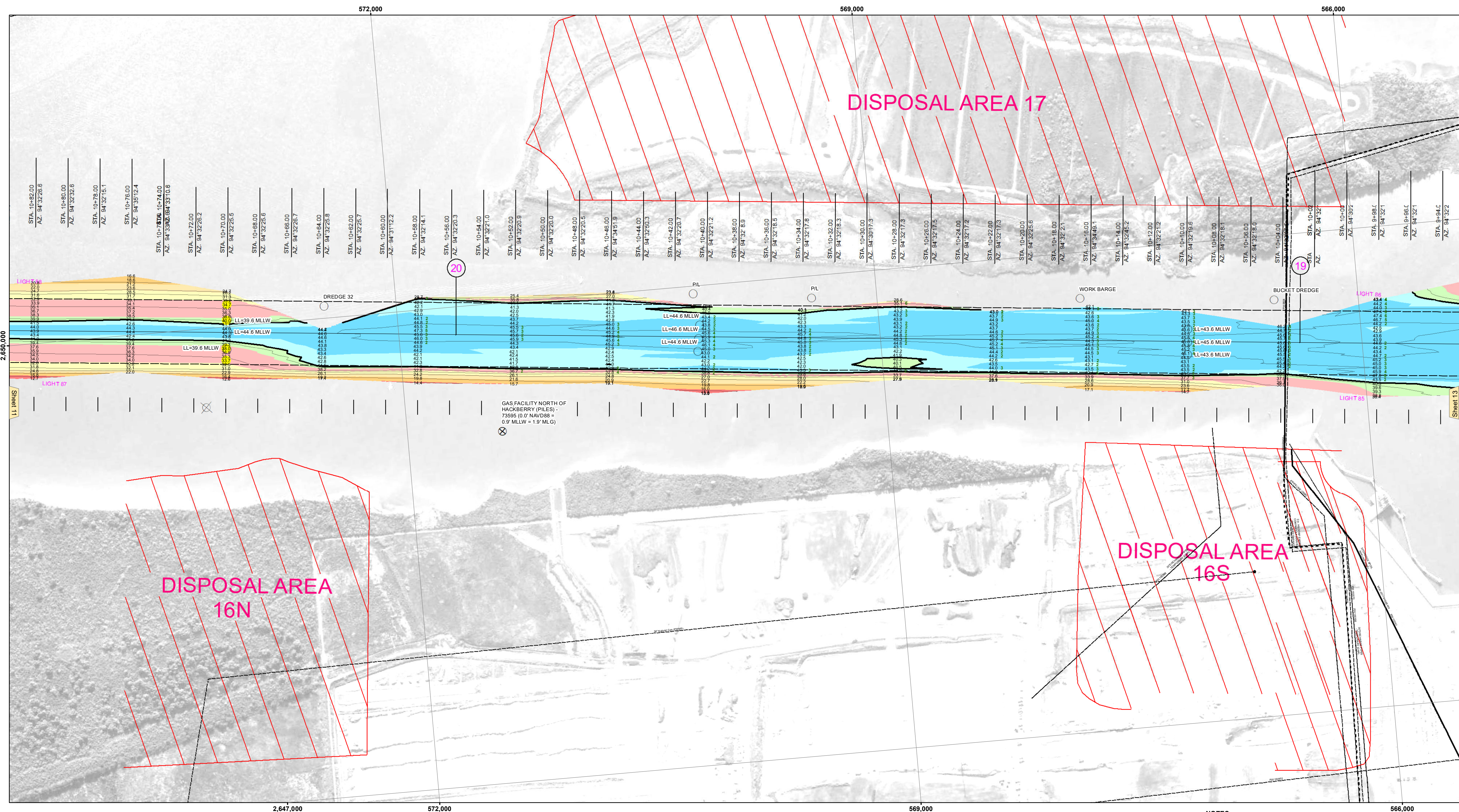
Submitted:	Surveyed By:	JDH/JA
Recommended:	Plotted By:	BD
Approved:	Checked By:	AC

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT

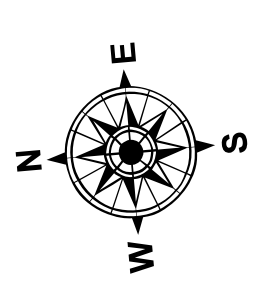
**CALCASIEU SHIP CHANNEL
LOWER SHEET 12
CR_12_LWR_20200303_CS
03 March 2020**

**Sheet Reference Number
12 of 53**

Revision Number:
4.0-20190702



LEGEND	
--- Federal Navigation Channel	○ Cable Area
— Federal Navigation Center Line	□ Placement Area
— As-built Pipeline/Cable	□ Anchorage Area
..... Unconfirmed Pipeline/Cable	⊗ Obstruction Point
— Project Depth Contour	⚓ Wrecks-Submerged
3 Fluff Thickness (feet)*	★ Beacon, General
● Shoalest Sounding**	◆ Red Navigation Buoy
★ Beacon, General	◆ Green Navigation Buoy
◆ Red Navigation Buoy	
◆ Green Navigation Buoy	



Gage Reading: DM 86: 1.35 MLLW AVG.
Sea Conditions: CALM
Vessel Name: M/V VALENTOUR
Survey Type: CONDITION
Sounding Frequency***: LOW

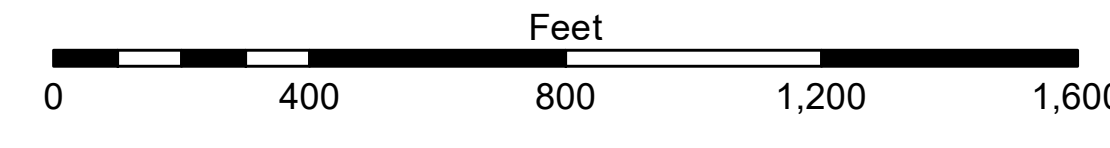
Vertical Datum:
Soundings are shown in feet and indicate depths below Mean Lower Low Water Datum (MLLW).
Datum Relationships for gage 73595 as of December 2013:
0.0' NAVD88 (OPUS 2013) = 0.9' MLLW = 1.9' MLG or 0.0' MLLW = 1.0' MLG

Distances on the Calcasieu River are shown at 1 mile intervals.

The location of navigation aids are based on and provided by the U.S. Coast Guard and USACE survey crews.

2015 Aerial Photography data source: NAIP
Reference is N.O.A.A. Navigation Chart No. 11339.

* Difference between high and low frequency elevations where greater than 1.0'.
** 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.



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 Lower Low Water Datum (MLLW).
Datum Relationships for gage 73595 as of December 2013:
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