



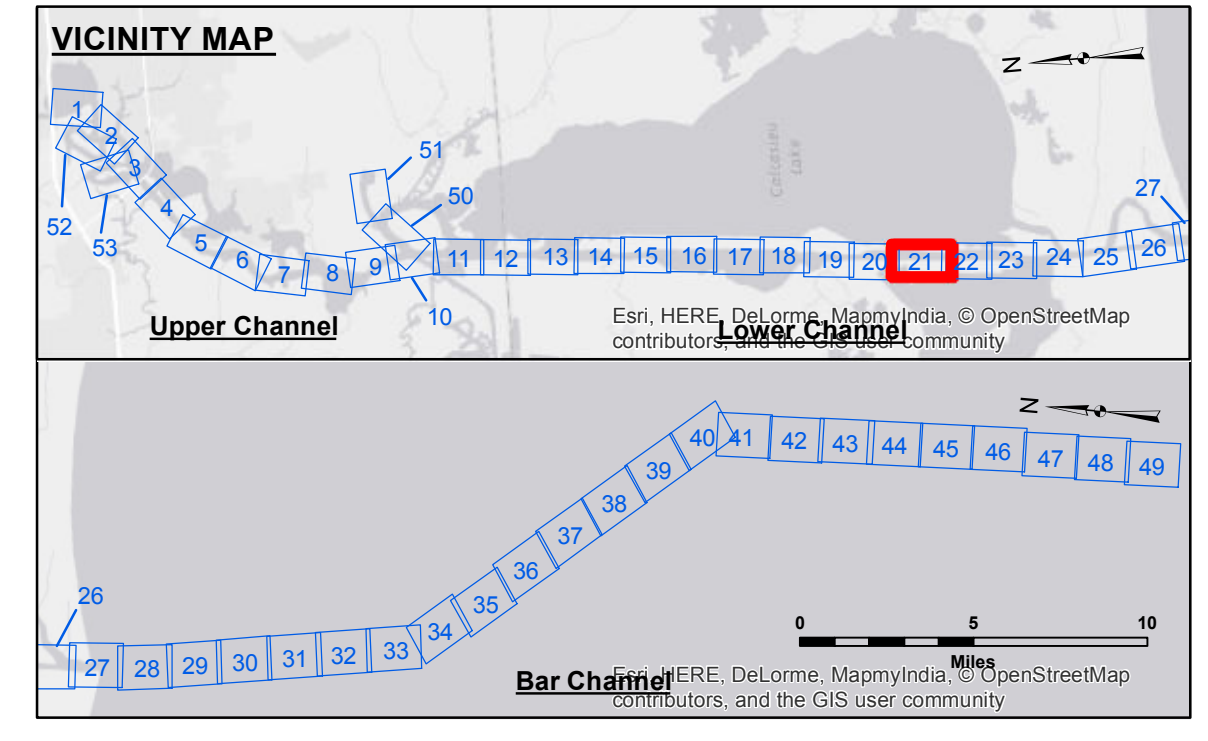
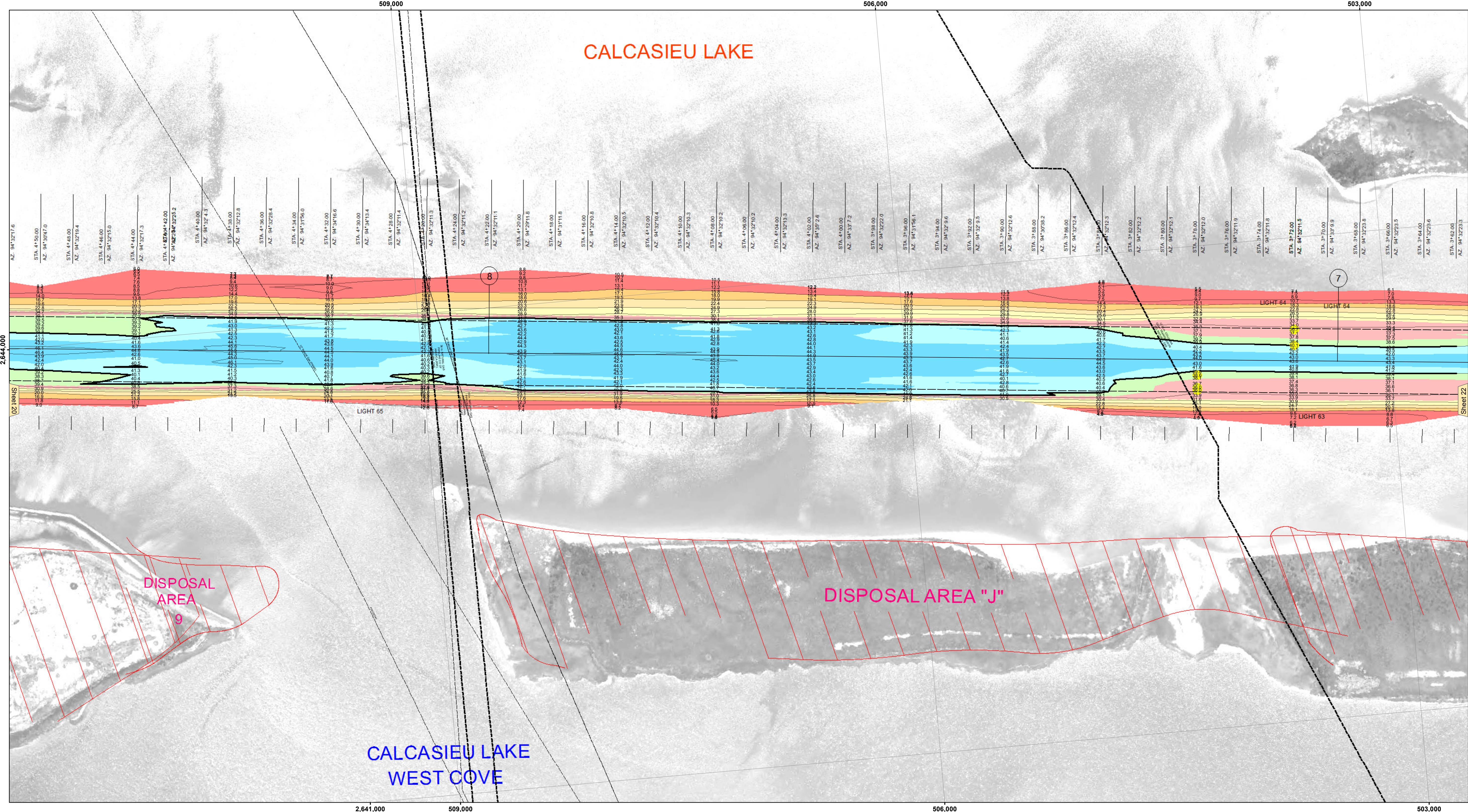
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U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT. Table with columns: Submitted, Recommended, Approved. Values: SPPM, BTID, TAF.

CALCASIEU SHIP CHANNEL LOWER SHEET 21 CR_21_LWR_20150430 30 April 2015

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LEGEND. Lists symbols for Federal Navigation Channel, Cable Area, Borrow Area, Shoalest Sounding, Beacon, Red Navigation Buoy, Green Navigation Buoy, Placement Area, Anchorage Area, Obstruction Point, Wrecks-Submerged, and Project Depth Contour. Includes depth color key from -15' and above to -42' and below.

Navigation aids information including Gage Reading (DM 52: 2.80 MLG), Sea Conditions (CALM), Vessel Name (OB-167), Survey Type (CONDITION), Sounding Frequency (LOW), and a graphical scale bar in feet (0 to 1,600).

NOTES: Horizontal Coordinate System: North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Louisiana South Zone. Vertical Datum: Soundings are shown in feet and indicate depths below Mean Low Gage Datum (MLG). Datum Relationships for gage 73625 as of December 2013: 0.0' NAVD83 (2009.55) = 1.2' MLLW = 2.2' 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. 2010 Aerial Photography data source: NAIP. Reference is N.O.A.A. Navigation Chart No. 11339. ** 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.