



1. SOUNDED SEPTEMBER 21, 2011 BY BOWEN ENGINEERING AND SURVEYING.
 2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
 3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
 Depths shown are below LWRP
 Solid contours are 9' below LWRP
 Dashed contours are 12' below LWRP

SEPTEMBER 21, 2011
 INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE		LWRP	LWRP DIF	
	@ 9:00	@ 15:00		@ 9:00	@ 15:00
56	324.77	324.91	312.12	12.65	12.79
57	325.30	325.45	312.67	12.63	12.78
58	325.84	325.98	313.22	12.62	12.76
59	326.37	326.52	313.77	12.60	12.75



U.S. ARMY ENGINEER DIVISION
 CORPS OF ENGINEERS
 ST. LOUIS, MISSOURI
 UPPER MISSISSIPPI RIVER BASIN
 MISSISSIPPI RIVER

Survey Date: SEPTEMBER 21, 2011

Designed by: BOWEN ENGINEERING
 Drawn by: JAMES L. REIM
 Submitted: JAMES L. REIM
 Chief, Eng. Data Mgmt. Sect.

Checked by: []
 Reviewed by: []
 Approved: []

Plot date: []
 Plot name: []

DATE RECORD
 CAPE GRAND/ALMO GRAND TOWER, IL
 304.65 12193
 52.1 81.9
 100.9 125.1
 18,049,001 18,115,001 18,659,001 18,715,001

ELEVATIONS ARE REFERRED TO N.G.D. - CONTOURS ARE BELOW 1000 FT. LOW WATER REFERENCE PLANE IS 18,659,000 FT.

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Scale: 240 METERS, 800 FEET

PRE DREDGE SURVEY
 RIVER MILES 56.2 - 56.4

PLATE NUMBER
 XX

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 XX