U.S. Department of the Interior

U.S. Geological Survey

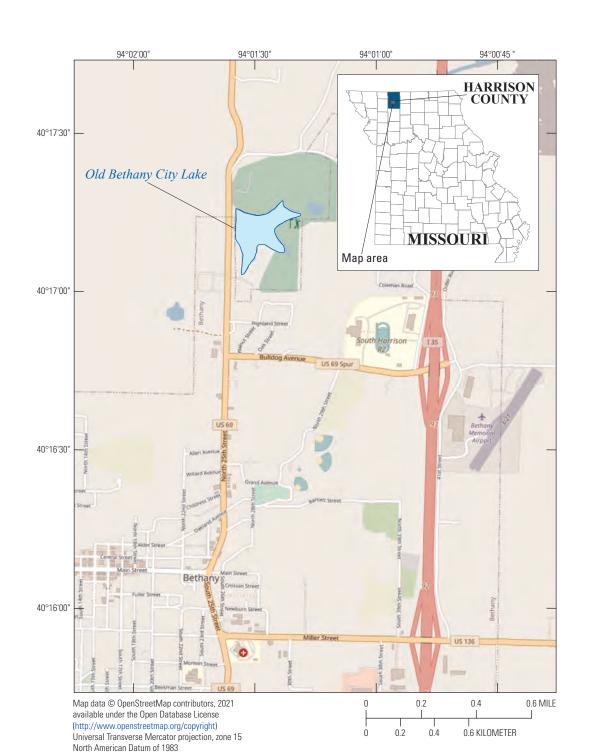


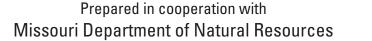
Figure 22. Location of Old Bethany City Lake near Bethany, Missouri.

Table 7. Surface area and capacity at specified water-surface elevations for Bethany Old City Lake near Bethany, Missouri, July 31, 2019.

[Spillway elevation is about 902.9 feet (fig. 23); the average water-surface elevation during the survey was about 900.3 feet (row shaded in the table)]

Water-surface elevation,ª in feet	Surface area, in acres	Capacity, ^b in acre-feet
880.0	0.10	0.00
882.0	1.90	2.10
884.0	3.00	7.00
886.0	4.30	14.3
888.0	5.40	23.9
890.0	7.60	36.5
892.0	10.8	55.1
894.0	12.9	79.0
896.0	14.1	106
898.0	15.0	135
900.0	15.8	166
900.3	15.9	171
902.0	16.5	199
902.9	17.3	214

^aElevations are referenced to the North American Vertical Datum of 1988 using the geoid model GEOID12b.



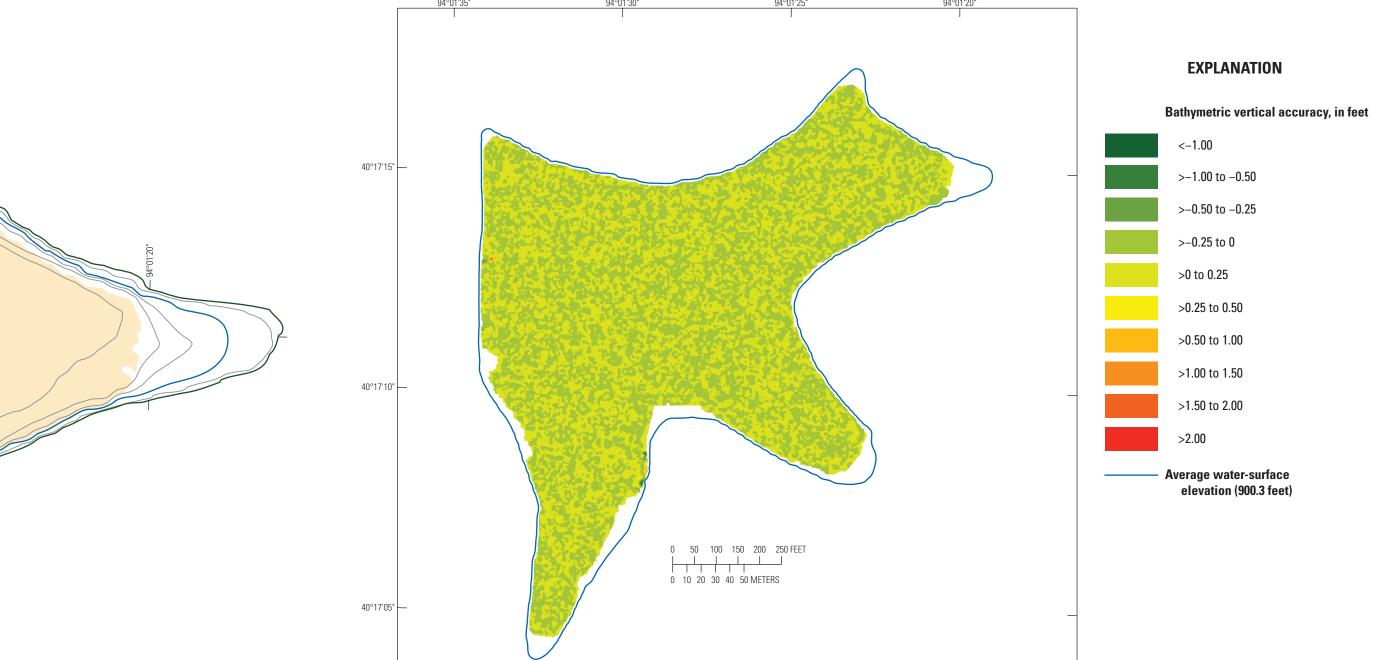


Figure 24. Vertical accuracy of the bathymetric surface of Old Bethany City Lake near Bethany, Missouri, 2019.

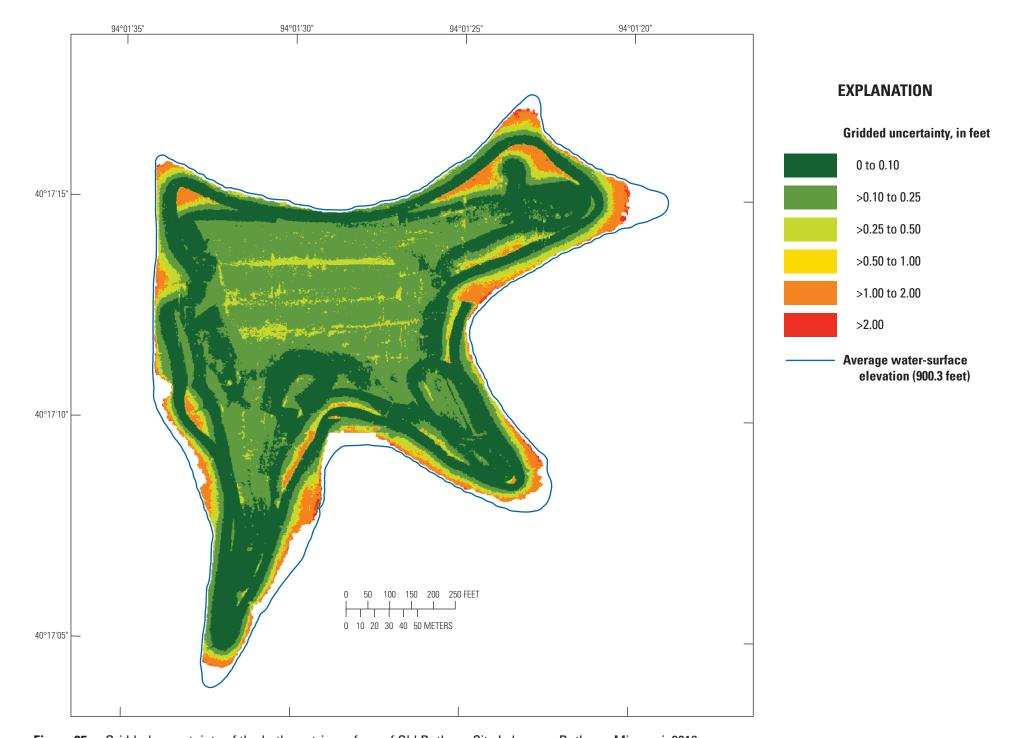


Figure 25. Gridded uncertainty of the bathymetric surface of Old Bethany City Lake near Bethany, Missouri, 2019.

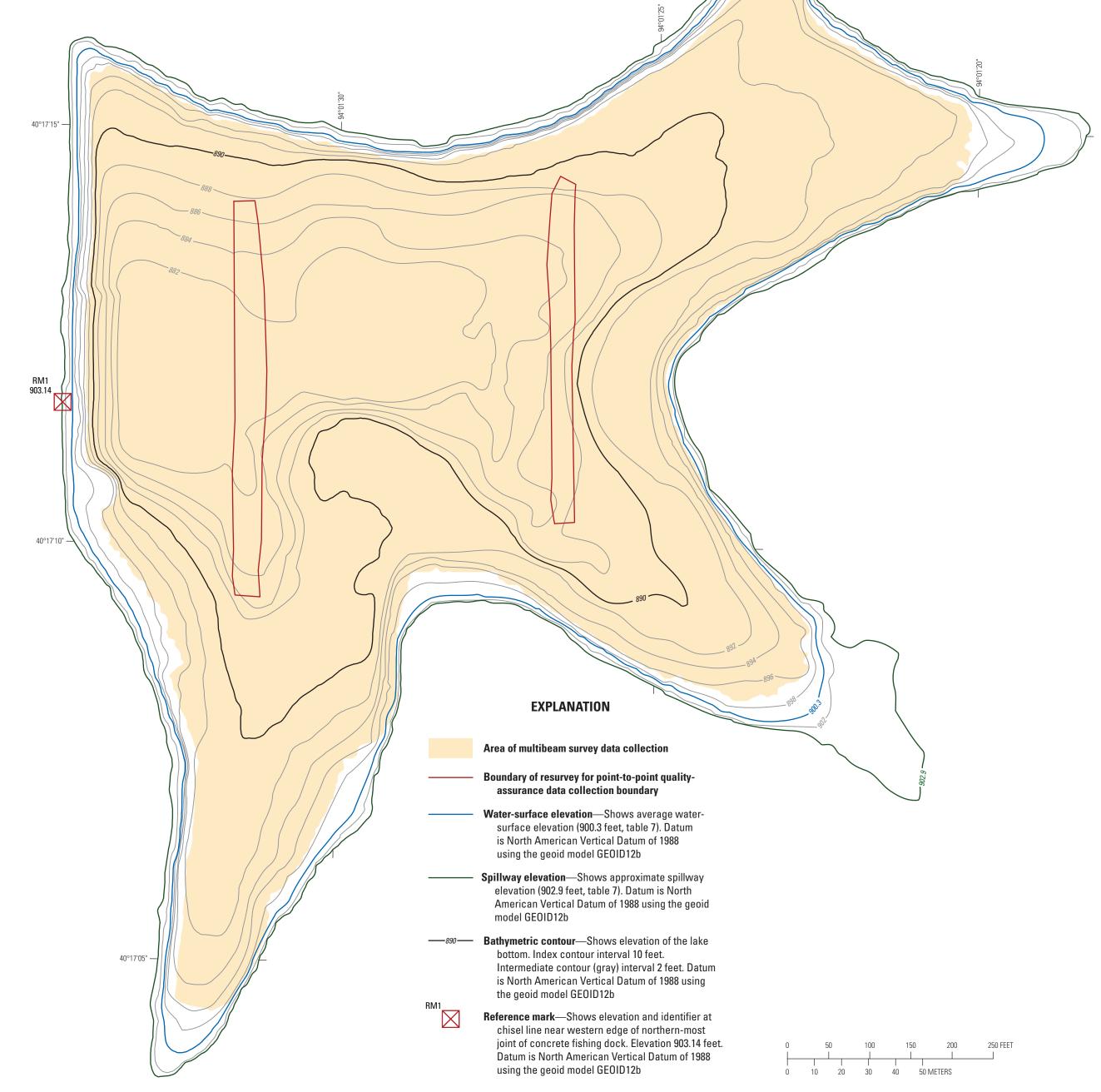


Figure 23. Bathymetric contours for Old Bethany City Lake (lake 5; fig. 1; table 1) near Bethany, Missouri, resulting from a survey on July 31, 2019.

Bathymetric Contour Map, and Surface Area and Capacity Table for Old Bethany City Lake near Bethany, Missouri, 2019

Scientific Investigations Map 3486

Pamphlet accompanies map

^bCapacities were calculated from surface testing at 1.04-foot

vertical accuracy at a 95-percent confidence level. An explanation of the vertical accuracy calculation can be found in the "Bathymetric Surface, Contour Map, and Bathymetric Change Quality Assurance" section of the report of which this sheet is a part.