Lake Decatur Dredging: Can We Dig It? Yes We Can!

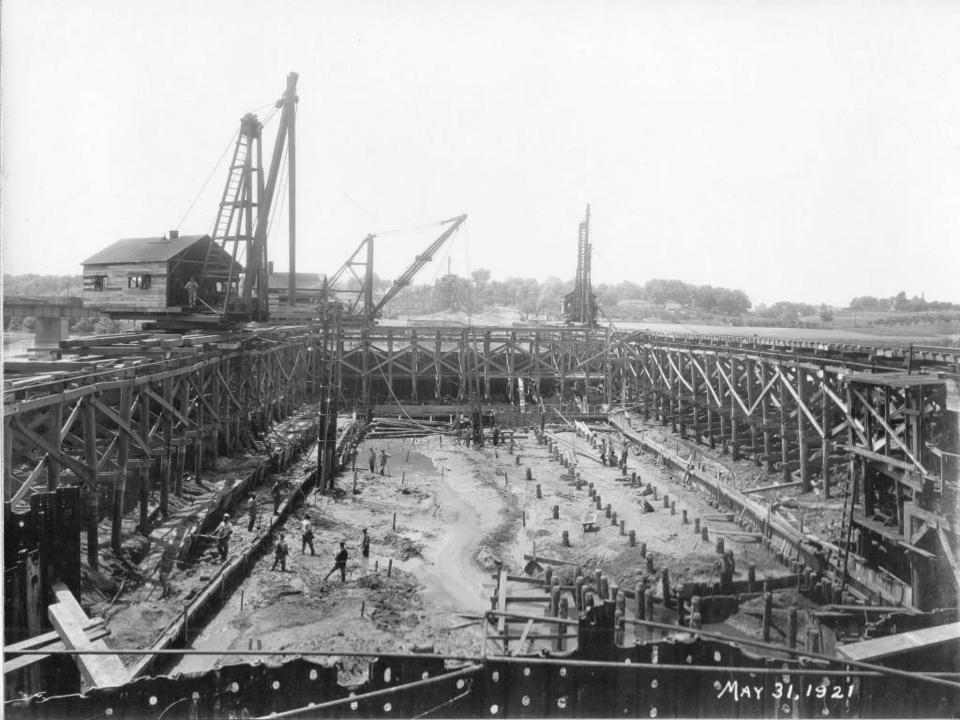
Keith Alexander Water Production Manager Joe Nihiser Lake Maintenance Supervisor



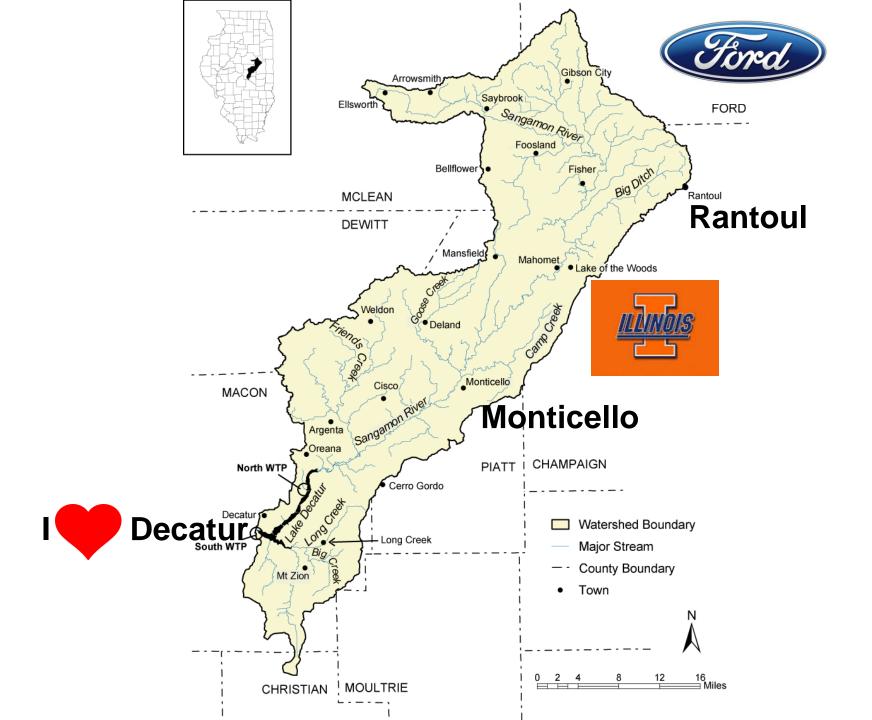
Lake Decatur

Built in 1920-1922 Primary water supply for Decatur & Mt. Zion Contained 7.3 BG or 22,450 AF of water Two water treatment plants use 32 MGD 5.8 month supply at 37 MGD using 88% of the lake's water 925 square mile watershed 83% of watershed used for row crops Watershed conservation since the 1940s Numerous federal and state grants obtained









1953-54 Drought

1988 Drought

2011 Drought

2012 Drought

Available Water Sources

- Lake Decatur
- DeWitt Co. Well Field 7.8 MGD to Lake
- Former Sand & Gravel Pit 3.5 MGD to Plant
- ADM Vertical Wells 4.4 MGD to ADM Plant
- ADM Collector Wells 7 MGD to ADM Plant
- Treated Wastewater 10 MGD to Plant

Previous Dredging Projects

- Basin 5 (Faries Park Basin)
 - **1993-1995**
 - Increased storage capacity by 6% (10 days)
 - \$6.5M project
- Basin 6
 - 2004-2011
 - Increased storage capacity by 11% (20 days)
 - \$20.8M project

Lake Decatur Dredging Project

- Dredge Basins 1 through 4
- Increase the lake's water storage by 30% (52 days)
- Reuse existing sediment storage basin
- Create 2 new sediment traps, clean 1 existing trap
- Contractor is Great Lakes Dredge & Dock
- \$91.7M project over 6 years

How Much Sediment Will Be Dredged?

- 10.7 million cubic yards
- 6,658 acre feet
- Over 3.2 feet of sediment covering the area between:
 - Pershing Road to the north
 - Eldorado Street to the south
 - Jasper Street to the east
 - Oakland Avenue to the west

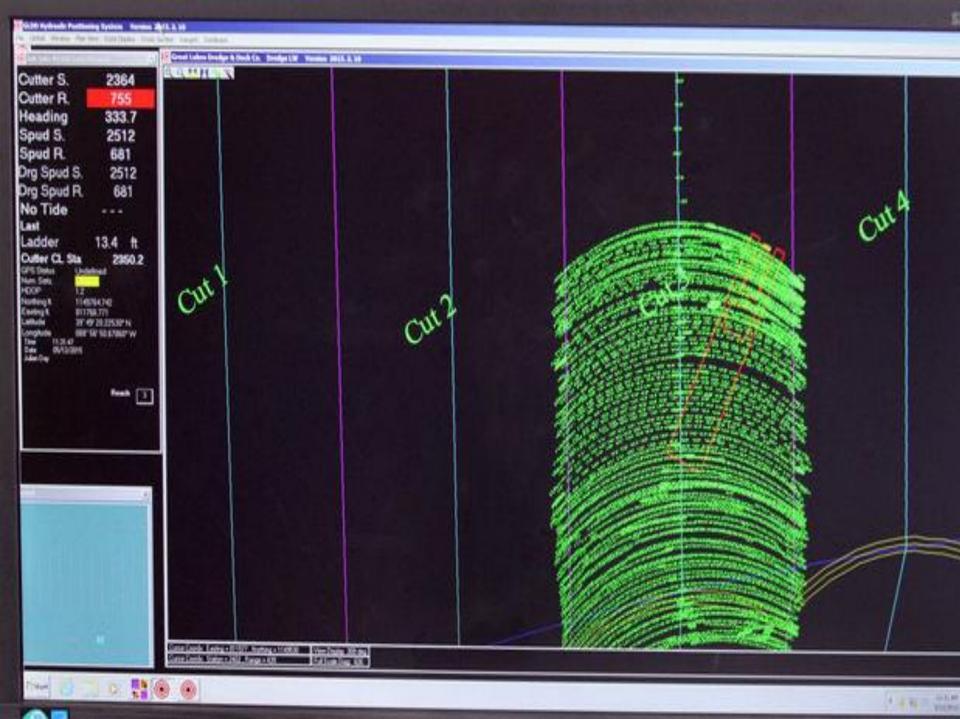


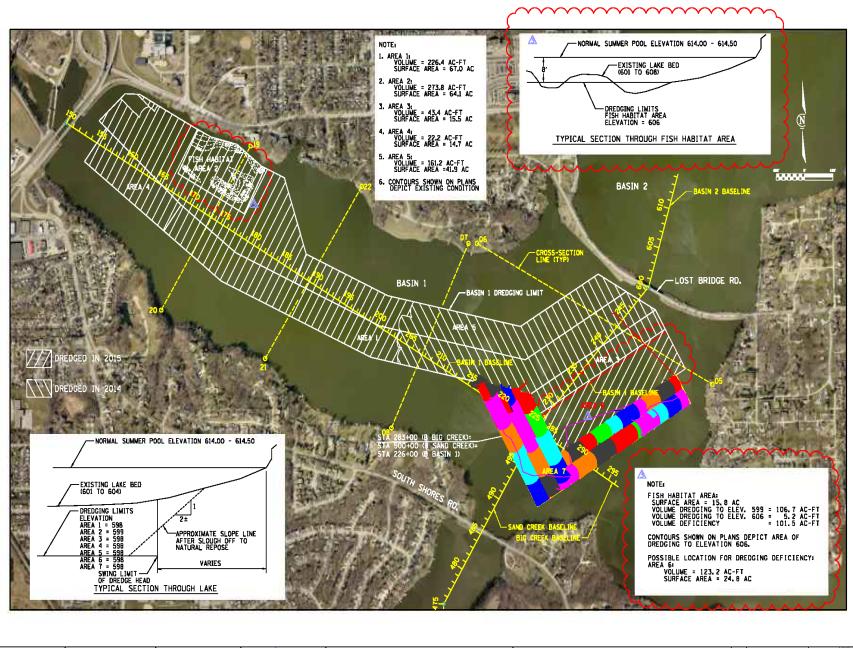




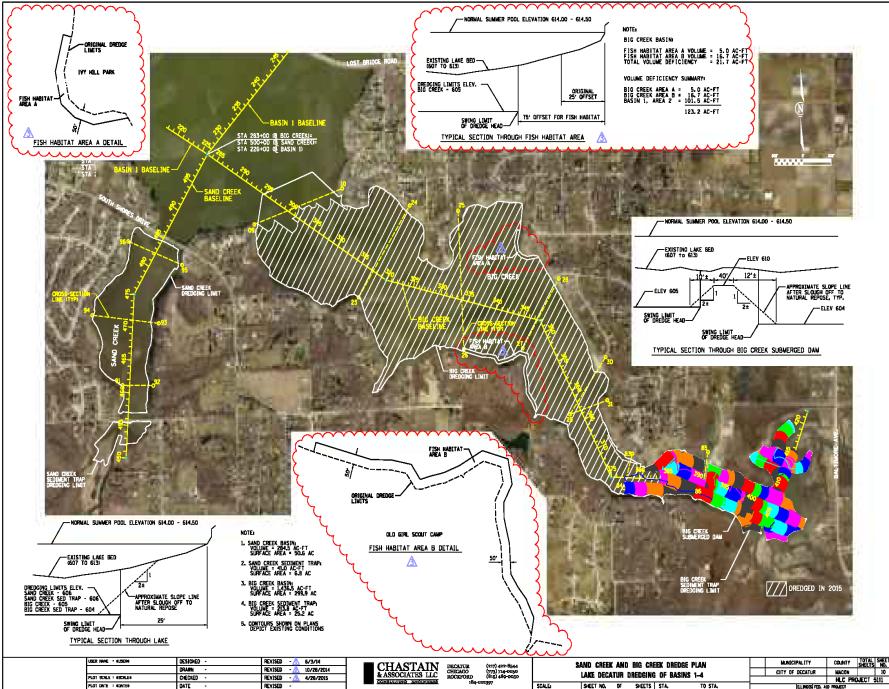




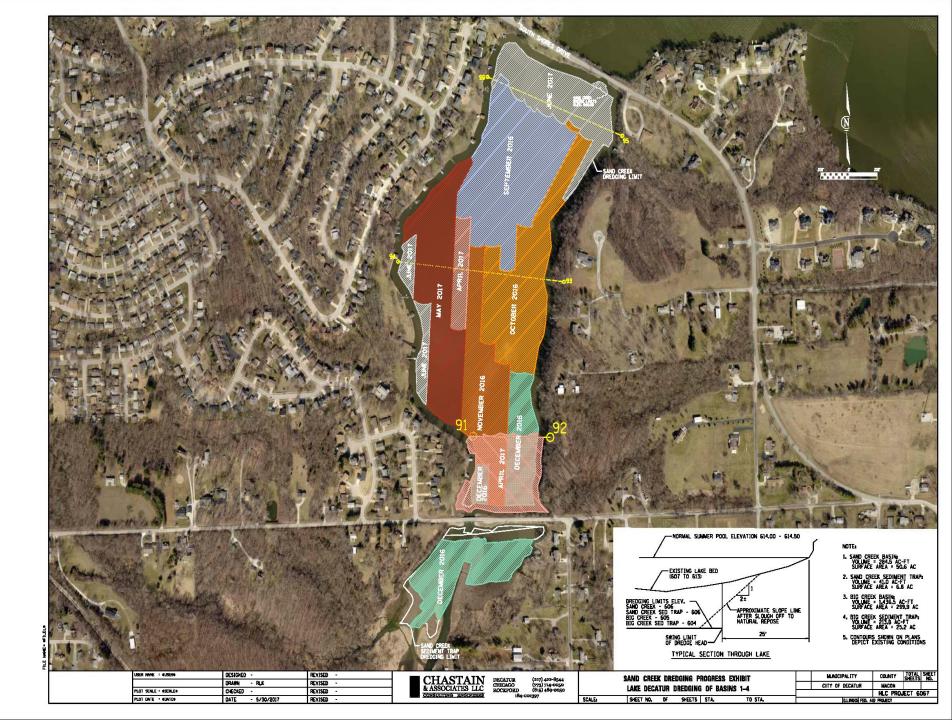


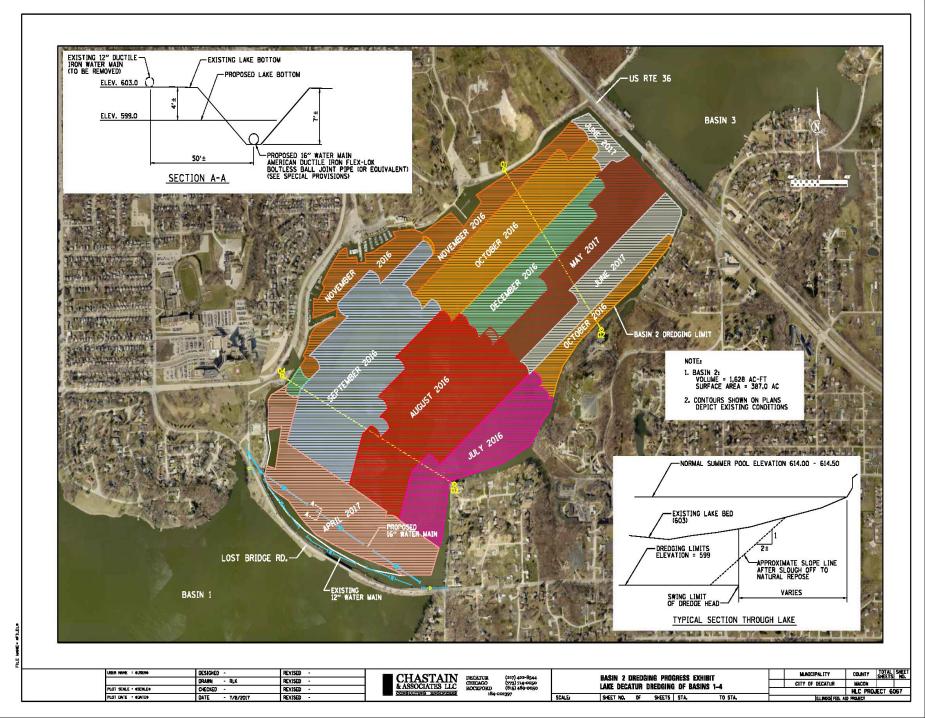


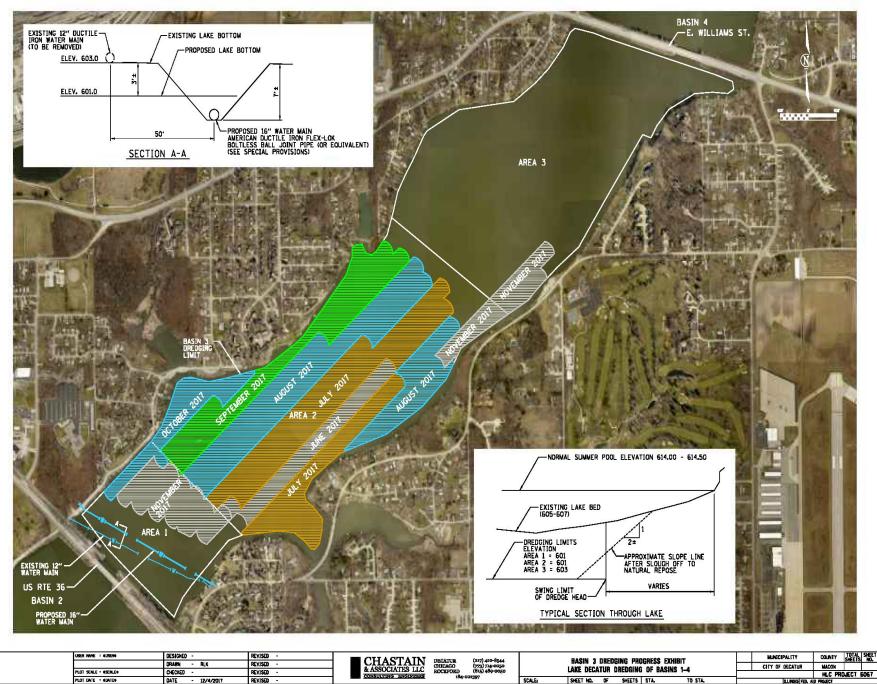
	USER NAME : OUSERO	DESIGNED -	REVISED - 🛕 6/3/14	CHASTAIN DECATUR (217) 422-8544	BASIN 1 DREDGE PLAN	MUNICIPALITY	COUNTY TOTAL SHEET SHEETS NO.
		ORAIN -	REVISED - \land 10/28/2014	6 1000 0T 1000 TT 0 CHICAGO (773) 74-0050		CITY OF DECATUR	MACON 7
	PLOT SCALE : OSCALEO	CHECKED -	REVISED - \land 4/28/2015	& ASSOCIATES LLC CHICAGO (73)740000 CONSULTING ENGINEERS 18400000	LAKE DECATUR DREDGING OF BASINS 1-4	HLC PR	HLC PROJECT 5111
	plot date : «Date»	DATE -	REVISED -	CONSULTING ENGINEERS 184-001397	SCALEI SHEET NO. OF SHEETS STA. TO STA.		PROJECT

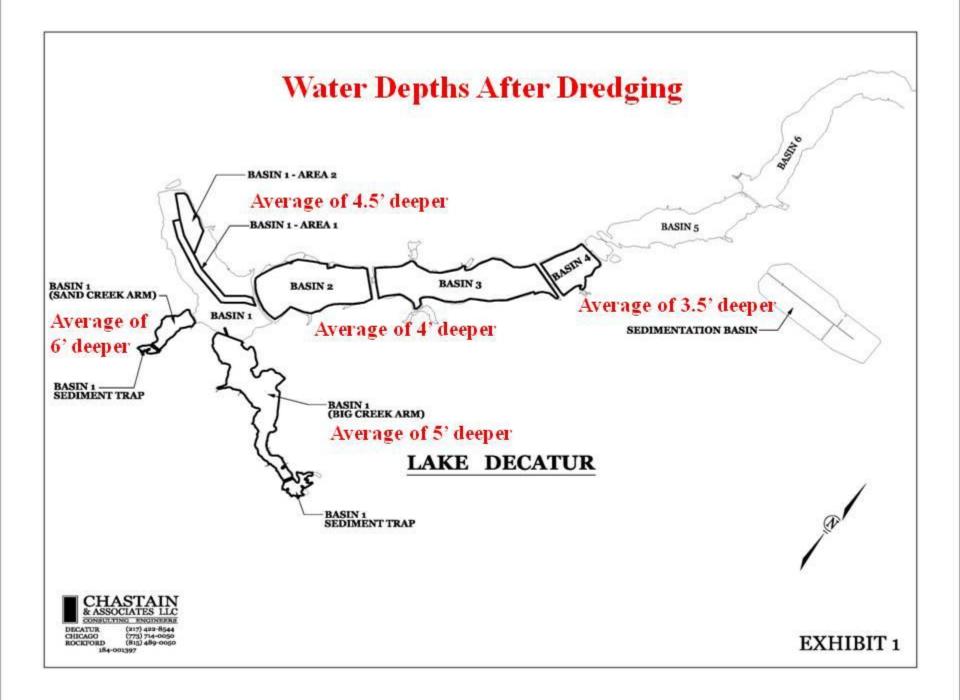


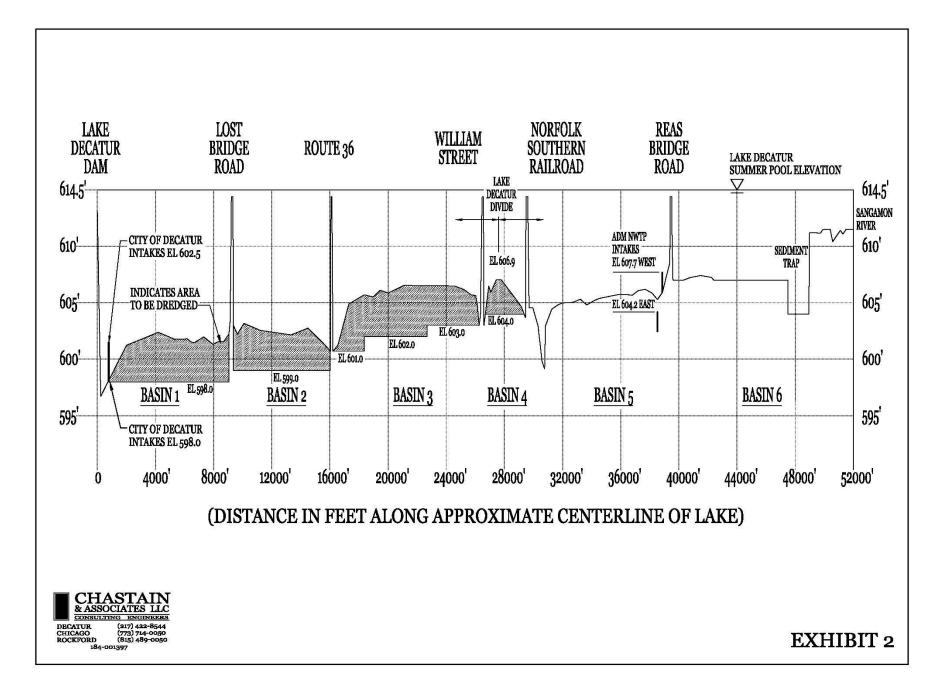
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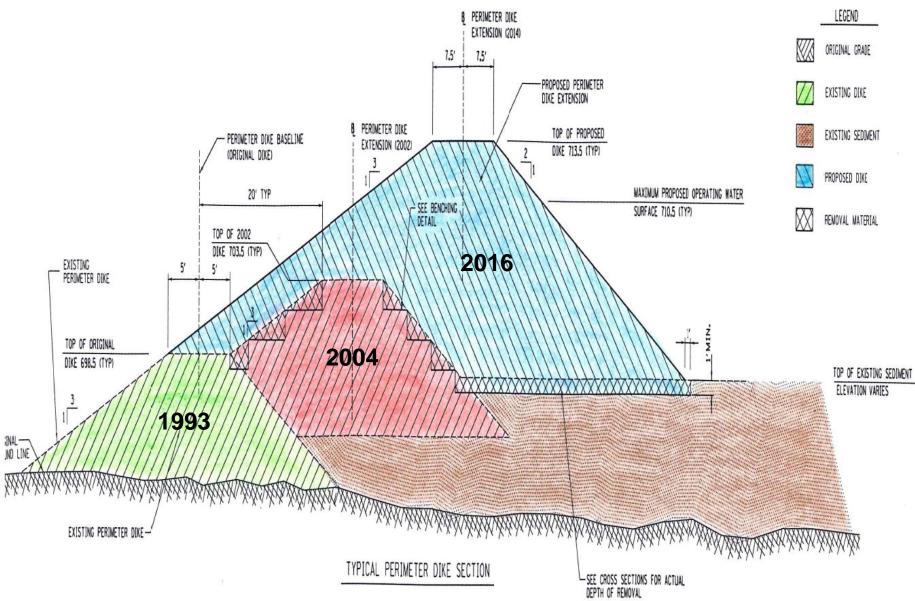












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How much water is in Lake Decatur?

- The equivalent of 202 Willis Towers!
- After dredging it will be 262 Willis Towers!

