

Clear Lake Dredging



Lake Dredging Funding

- ▶ **State of Iowa - \$9.0 million**
- ▶ **Local Governments - \$3.2 million**
 - \$2 million City of Clear Lake
 - \$1 million Cerro Gordo County
 - \$200,000 City of Ventura
- ▶ **Private Funding - \$1 million**
 - Association for the Preservation of Clear Lake reached goal in fall of 2007

Clear Lake Dredging Overview

- ▶ Removal of 2.3 million cubic yards of sediment
- ▶ Bid was awarded in January by the Natural Resources Committee (Oversees DNR)
 - L.W. Matteson, Burlington, IA
- ▶ Mel Pacovsky (DNR) is project engineer

Clear Lake Dredging Recap

- ▶ Dredging commenced at end of July 2008 and continued until end of Nov.
- ▶ 2009 Dredging began in May and was completed in August.
- ▶ A total of 2.4 million cubic yards was removed.

Clear Lake Dredging Location



Dredge Barge



Dredge Cutter Head



Booster Pump



Aerial View of Dredging



Dredged Material



JEFF HEINZ/The Globe Gazette

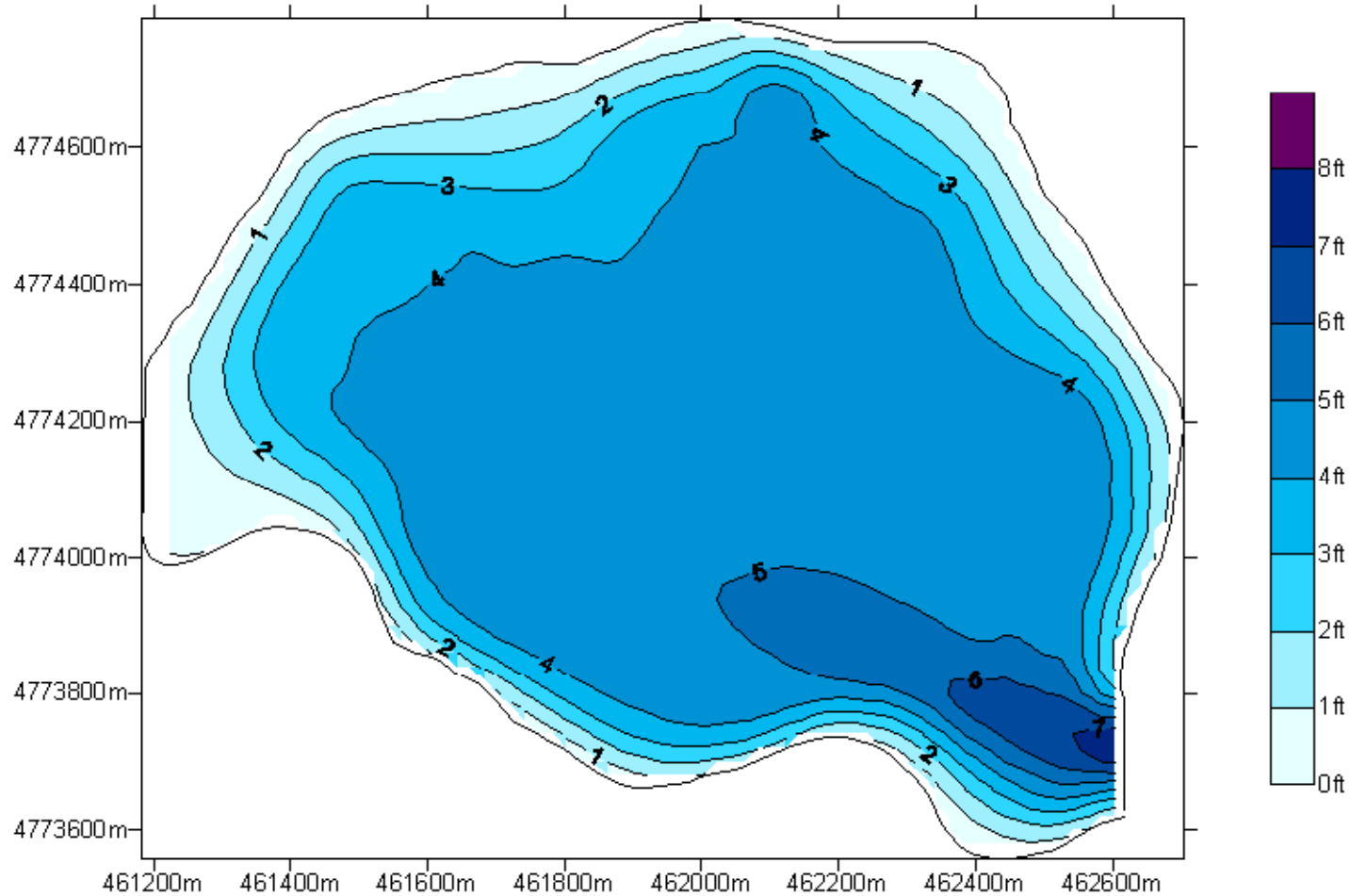
Dredged Material Containment Site



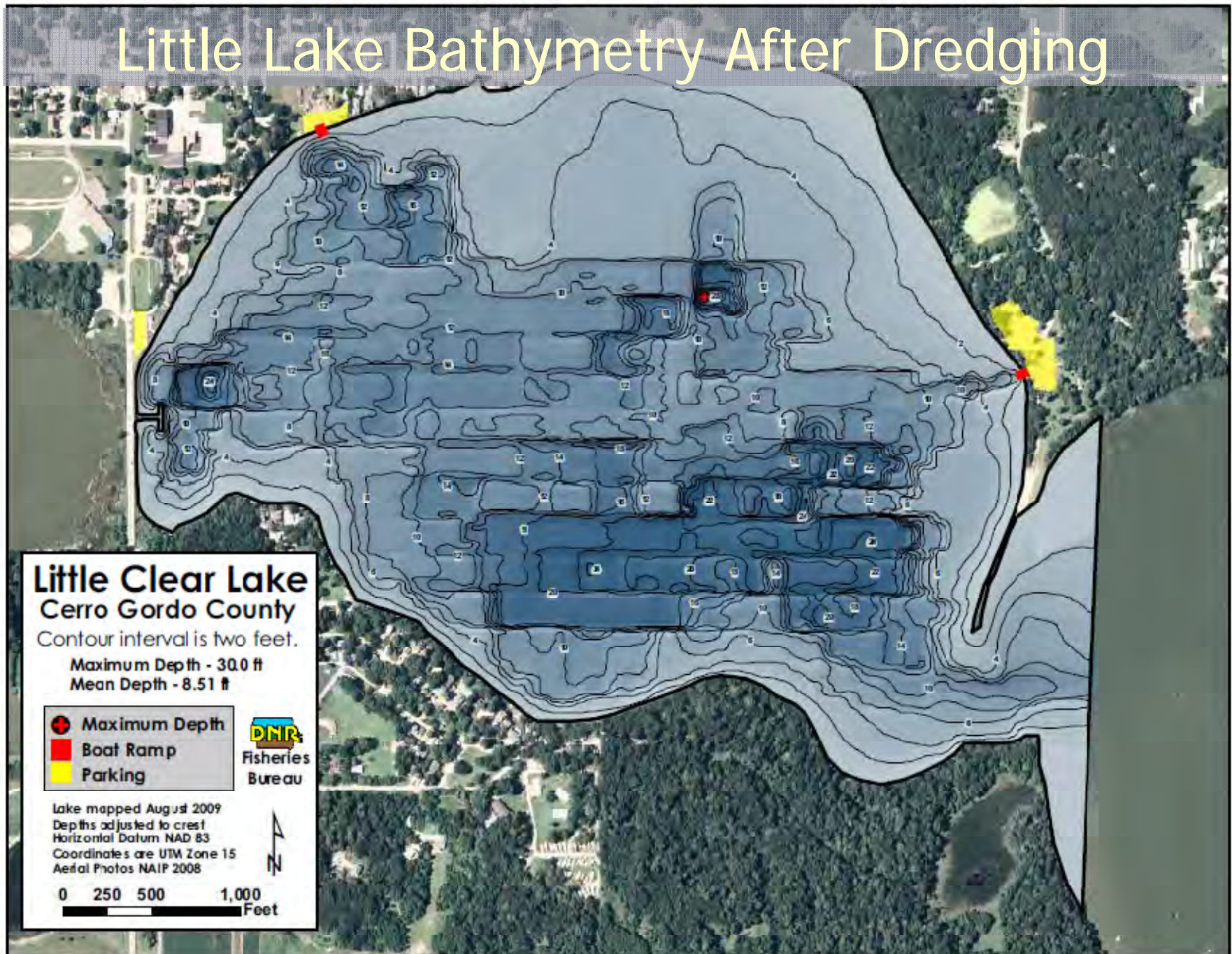
Water Returning to Ventura Marsh



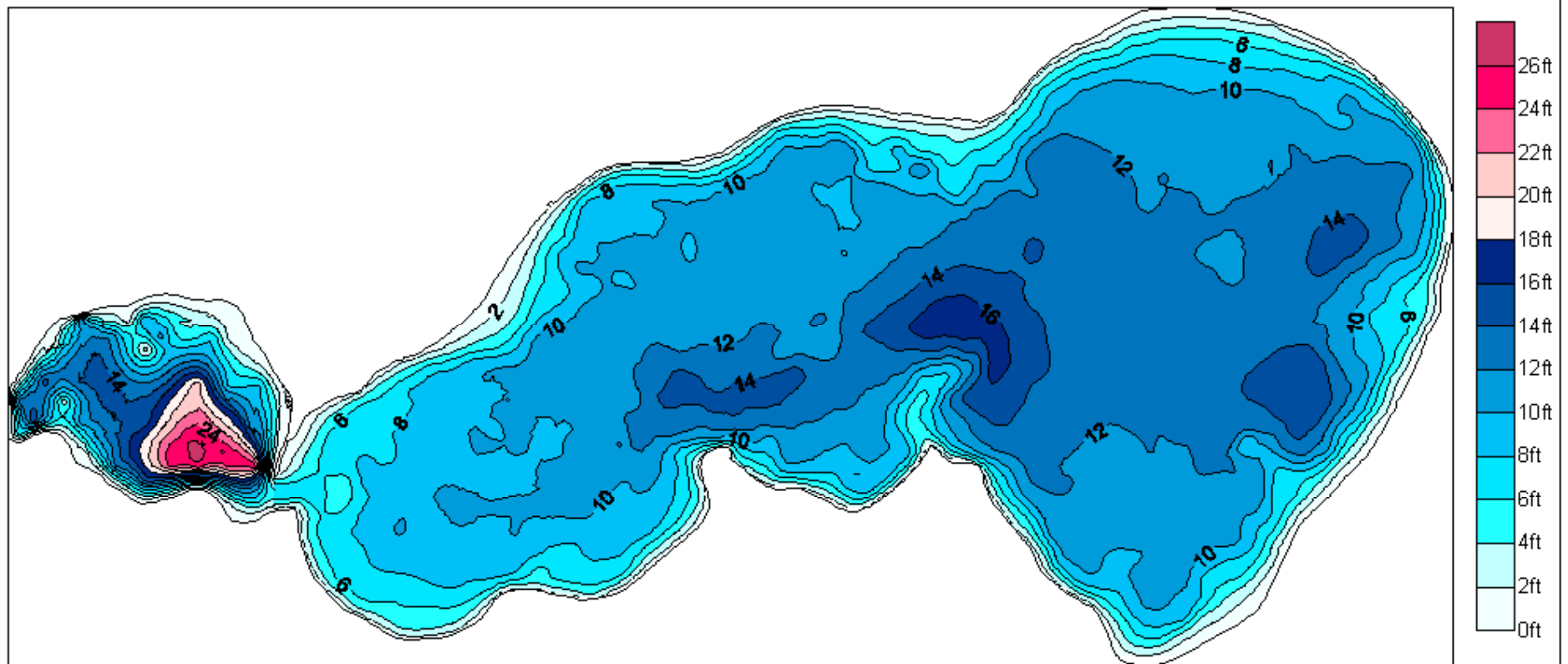
Little Lake Bathymetry Before Dredging



Little Lake Bathymetry After Dredging



Post Dredging Lake Depths



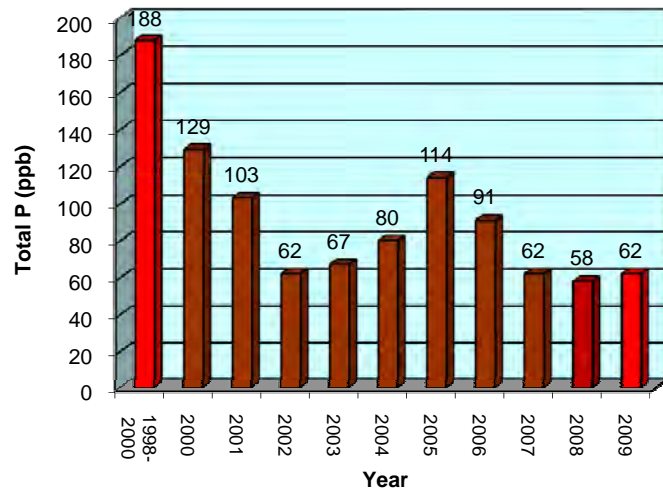
Next Steps

An aerial photograph showing a large body of water, likely a lake or reservoir, surrounded by green fields and some buildings. The water is dark blue, and the surrounding land is a mix of green and brown. The text 'Next Steps' is overlaid in the upper center.

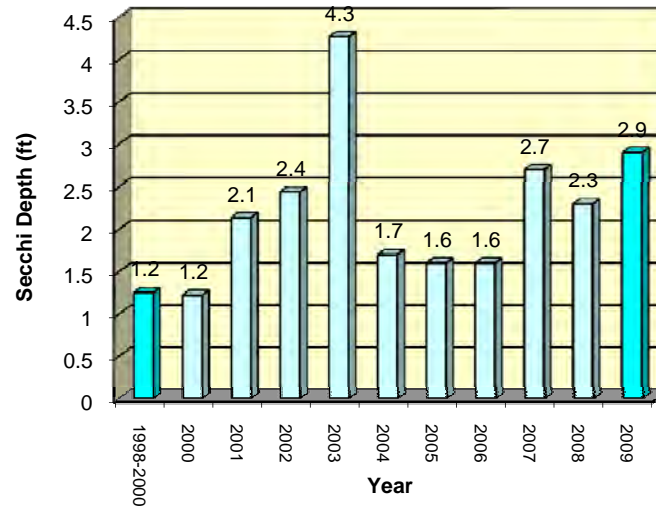
- ▶ Continue watershed improvements
- ▶ Ventura Marsh Restoration
- ▶ Continue water monitoring

Water Monitoring Data

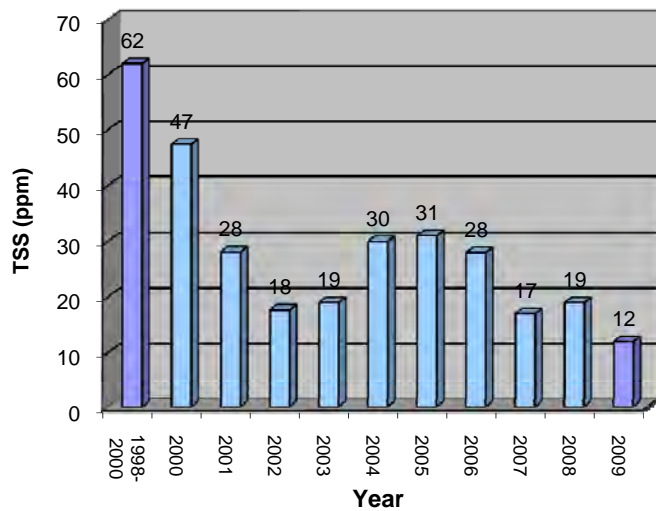
Clear Lake Total P Concentration



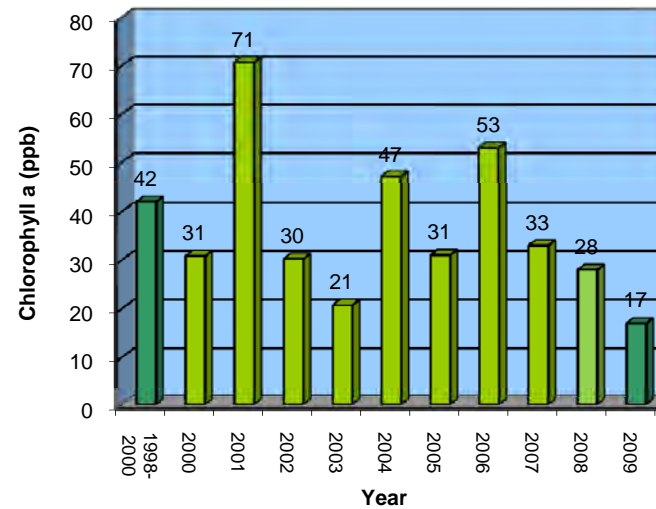
Clear Lake Secchi Disk Depth (Water Clarity)



Clear Lake Total Suspended Solids



Clear Lake Chlorophyll a Concentration



Sources:

1998 – 2000:
Clear Lake
Diagnostic and
Feasibility
Study

2000 – 2003:
Iowa Lakes
Survey

2004 - 2009:

CLEAR
Monitoring

What YOU Can Do

- ▶ Use zero-phosphate lawn fertilizers
- ▶ Keep grass clippings off of streets and sidewalks
- ▶ Properly dispose of household hazardous wastes
- ▶ Pick-up pet waste
- ▶ Seed bare spots
- ▶ Use herbicides sparingly
- ▶ Install a rain garden

