White Lake Proposed Dredging Project

Public Information Meeting August 22, 2012

White Lake Citizens League

Tom De Santis President White Lake Citizens League

Agenda

- Introduction
- White Lake Dredging History
- "Dredging 101"
- Proposed White Lake Project
- Project Cost Estimates
- Special Assessment District Funding

Ground Rules

- Please hold your questions until directed by the presenter.
- Please limit your questions to the subject just presented.
- Please hold your comments until the end of the presentation.
- This meeting is specifically to discuss the dredging process and its financing. Other topics may be addressed at the following WLCL meeting.

Dredging Operation Committee

WLCL Board Members

Tom De Santis - Engineer

Jack Butler - Manager

Patte Day - Writer

Walt Koziol - CPA

Bob Parrett - Engineer

Bob Pisoni - Engineer

Mike Wachsberg - Attorney

Dredge Area Residents

Don Day

Bill DeGhetto

John Millington

Bill Scanlon

A History of Improving the Quality of the Lake and Lake Living for 51 Years

- Dawson's Island Development
- Lake Level Augmentation Pump
- Coordinated Weed Harvestting and Chemical Weed Control
- Establishment of the WLIB

Weed Control

Dredging

Sheriff's Patrol

[Slide from 9/16/09 SAD Presentation]

Dredging

- The WLIB and WLCL are committed to a continuing dredging program
- Dredging improves navigation, reduces nutrients, and may preclude eutrification
- Dredging projects were identified in lake studies, and several have been completed over the years

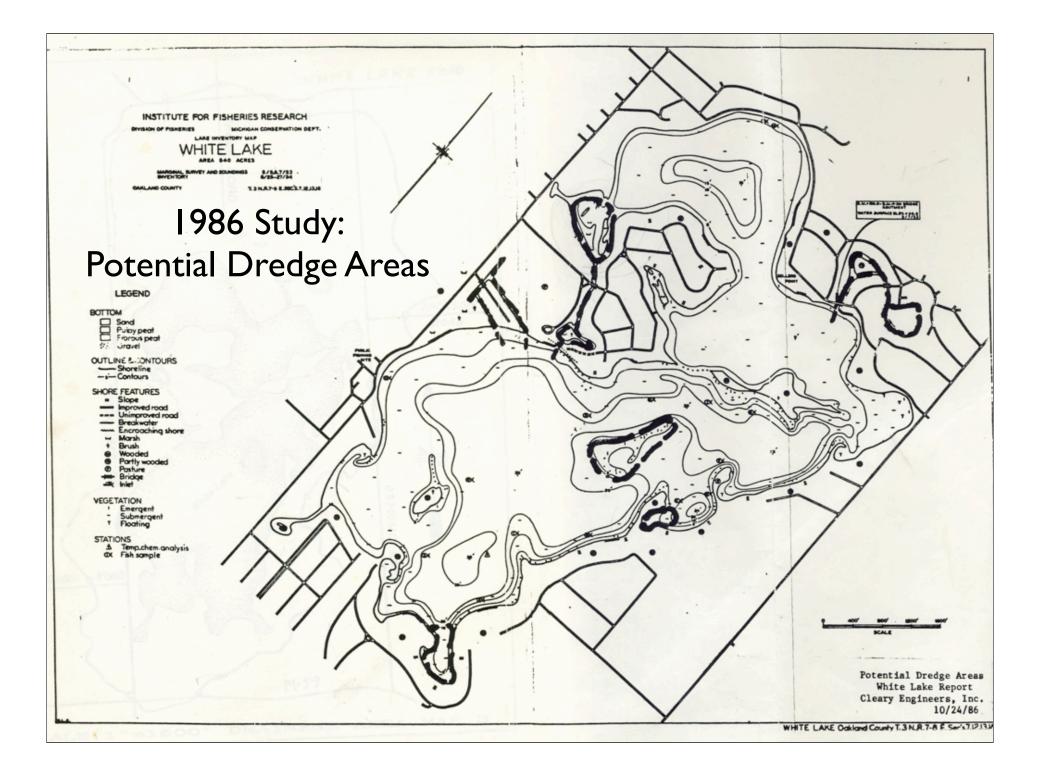
White Lake Citizens League

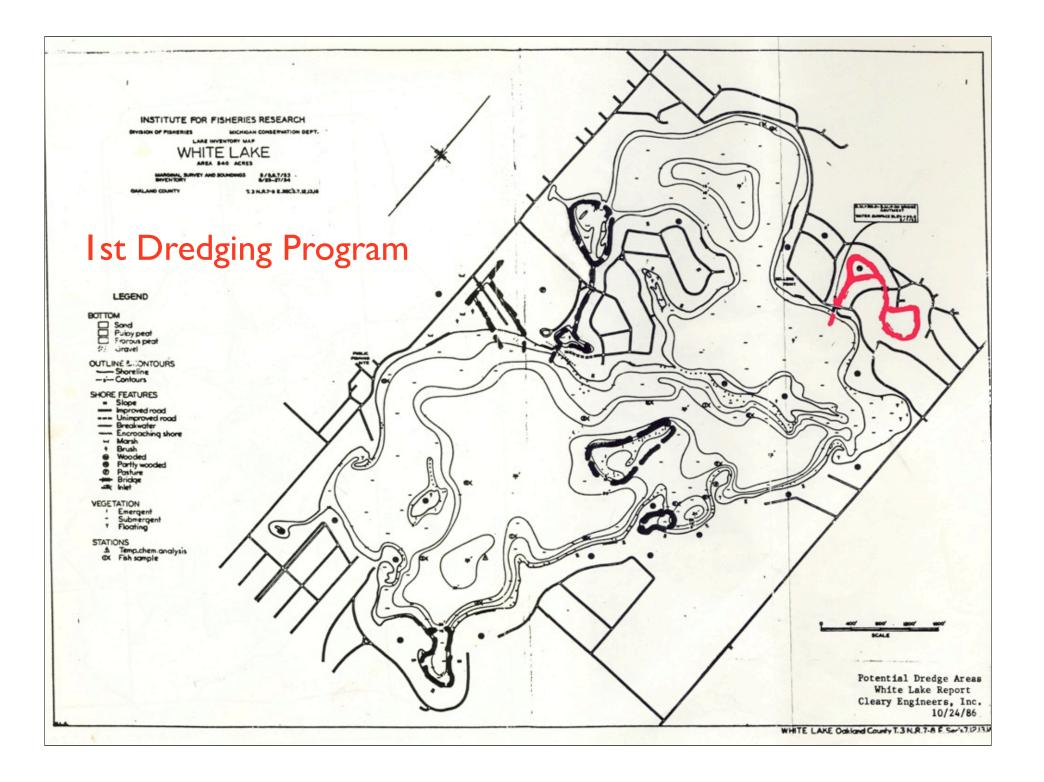
[Slide from 9/16/09 SAD Presentation] Dredging

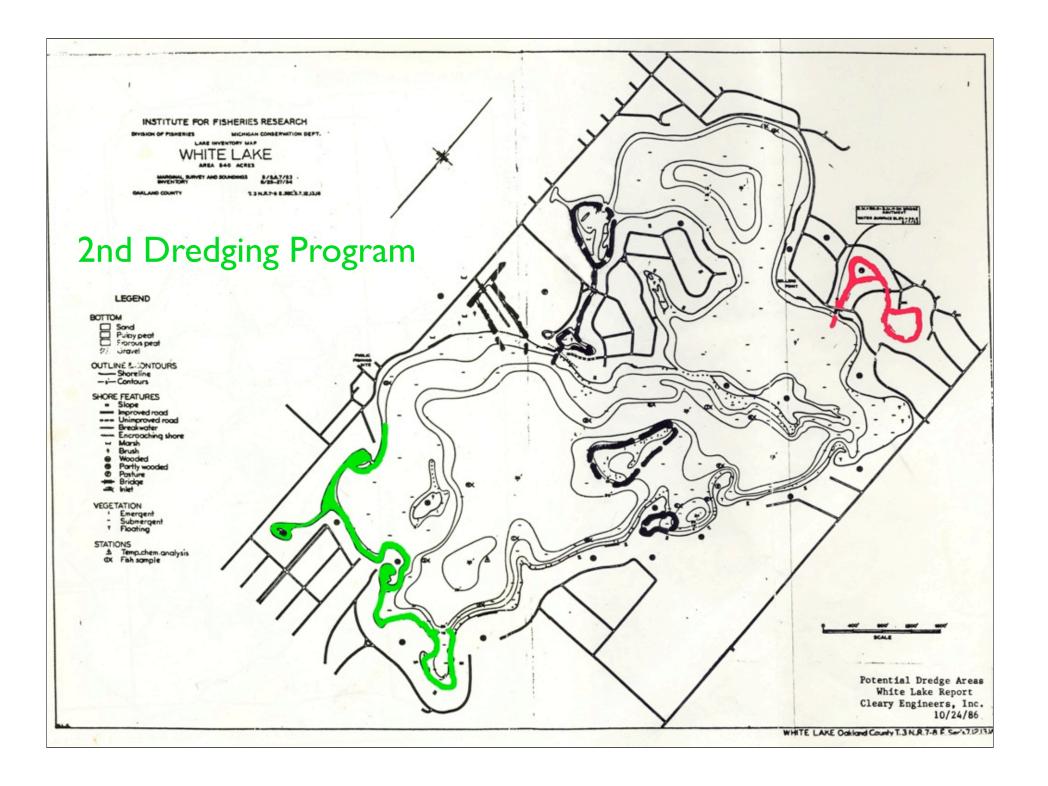
- The proposed plan does not include a dredging project – because it is prudent not to do one in this current economic downturn
- Without other needs for contingency funds, we will have a surplus by 2012 which may contribute to a dredging project in the next 3-year cycle (2013 2015)
- Funding is included for an Engineering Study in 2012, to evaluate needs for dredging in the next cycle

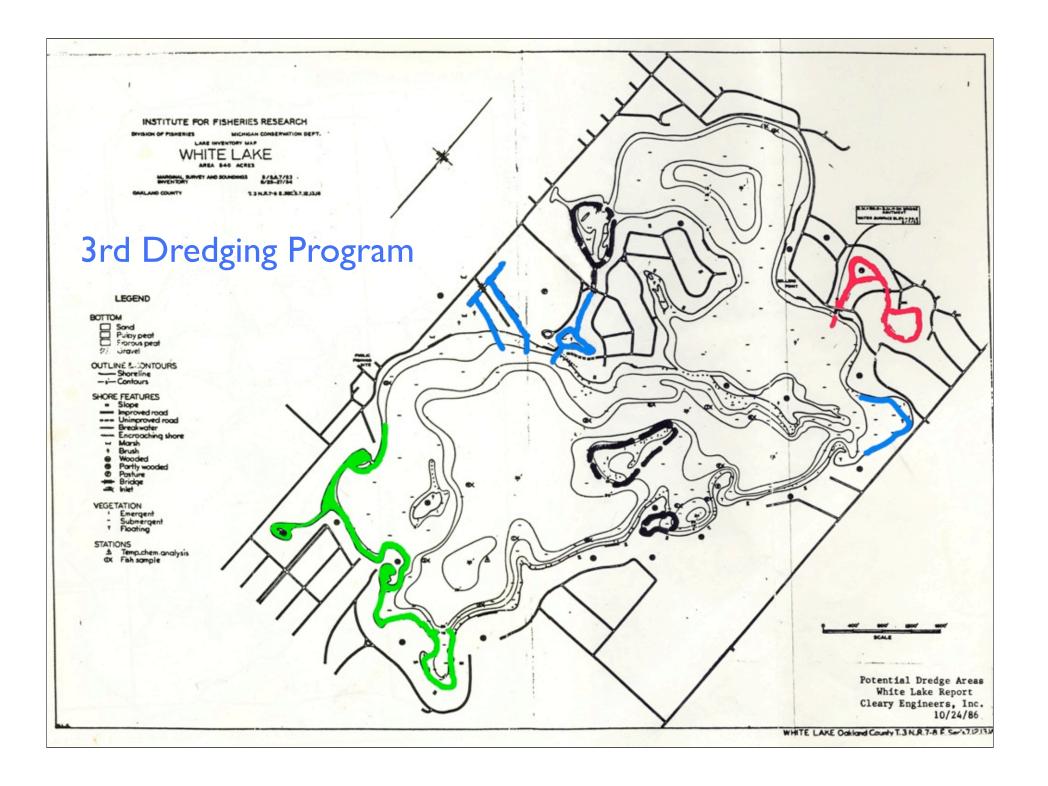
White Lake Citizens League

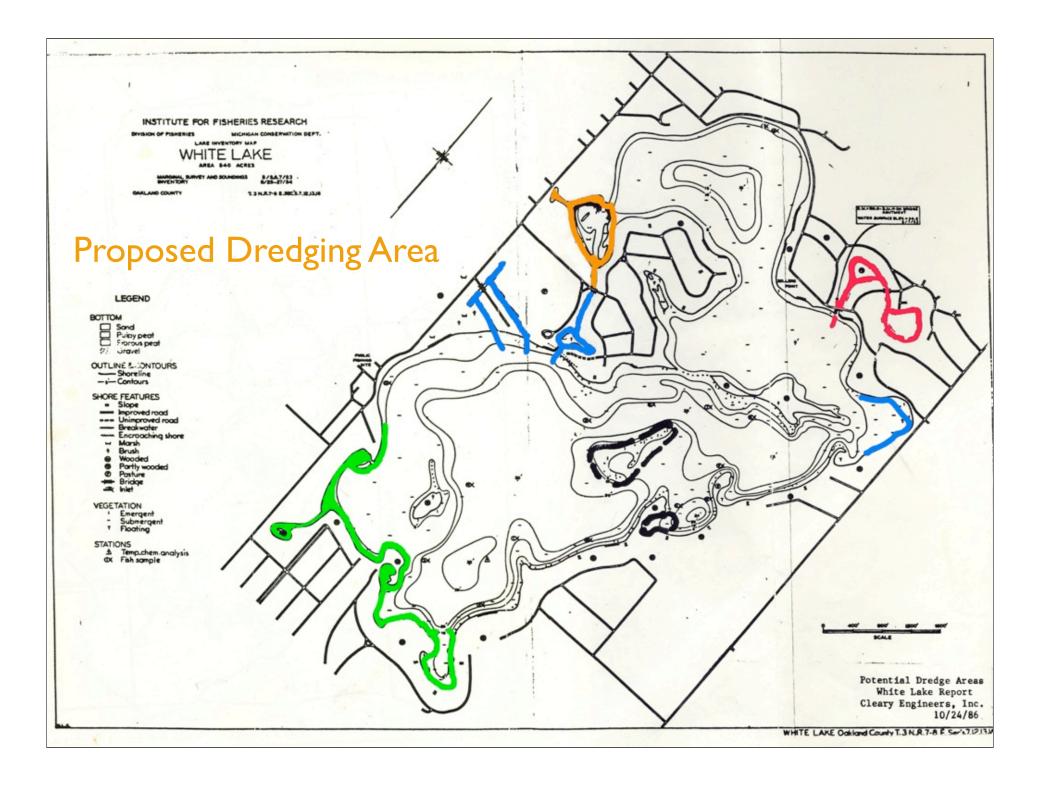
Dredging History White Lake Citizens League











"Dredging 101" White Lake Citizens League

Dredging Process Phases

- 1. Engineering Management
- 2. Dredging & Dewatering
- 3. Final Spoils Disposal

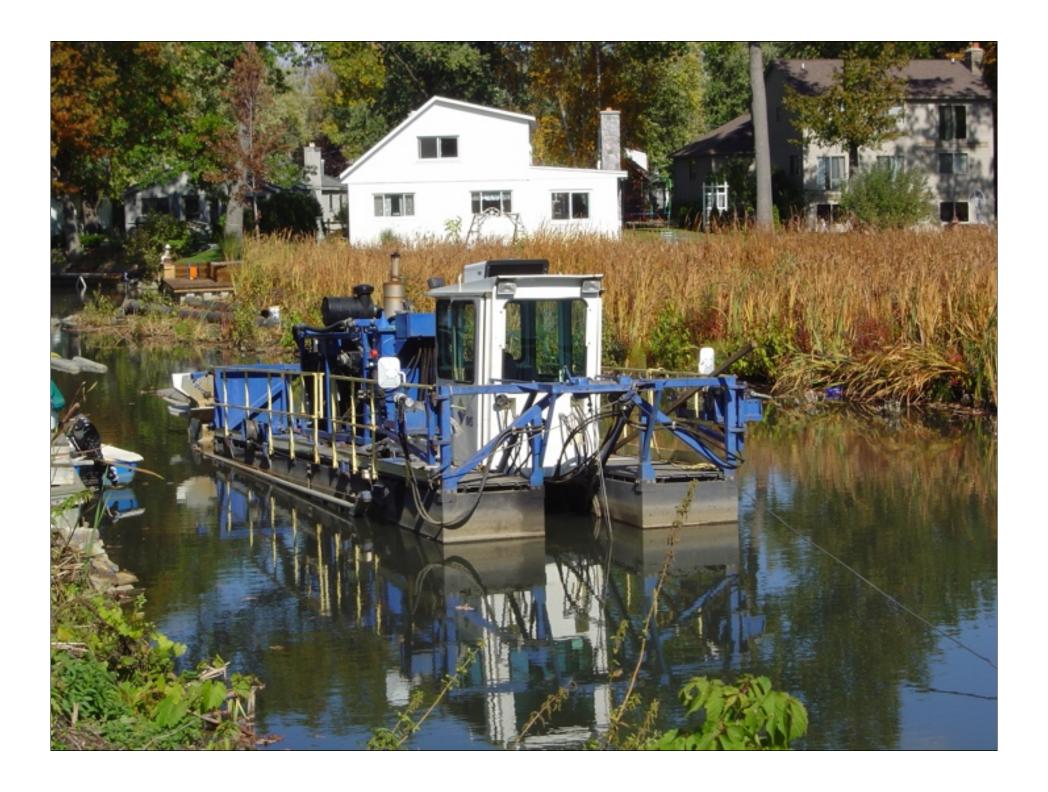
1. Engineering Management

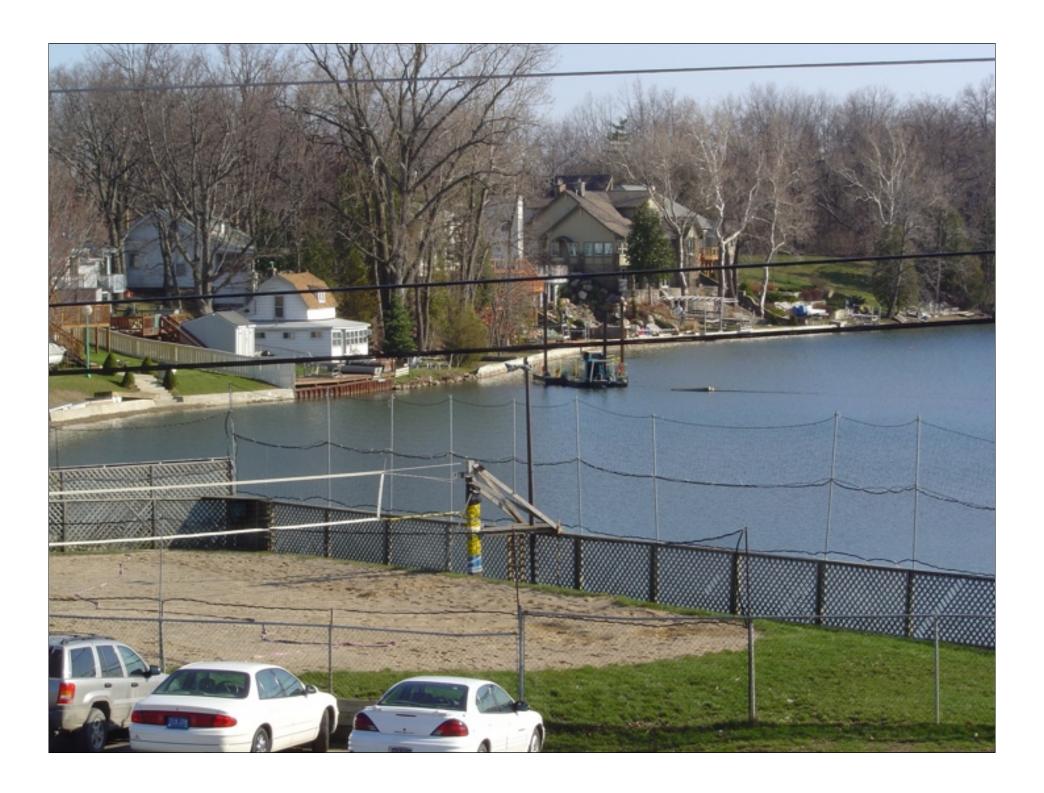
- Survey
- Soil Samples & Analysis
- Planning for Project
- Permits & Easements
- Administration

2. Dredging & Dewatering

- Mobilization
- Hydraulic Dredging







2. Dredging & Dewatering

- Mobilization
- Dredging
- Spoils Storage & Dewatering
 Open Pit
 Geotextile Bags





3. Final Spoils Disposal

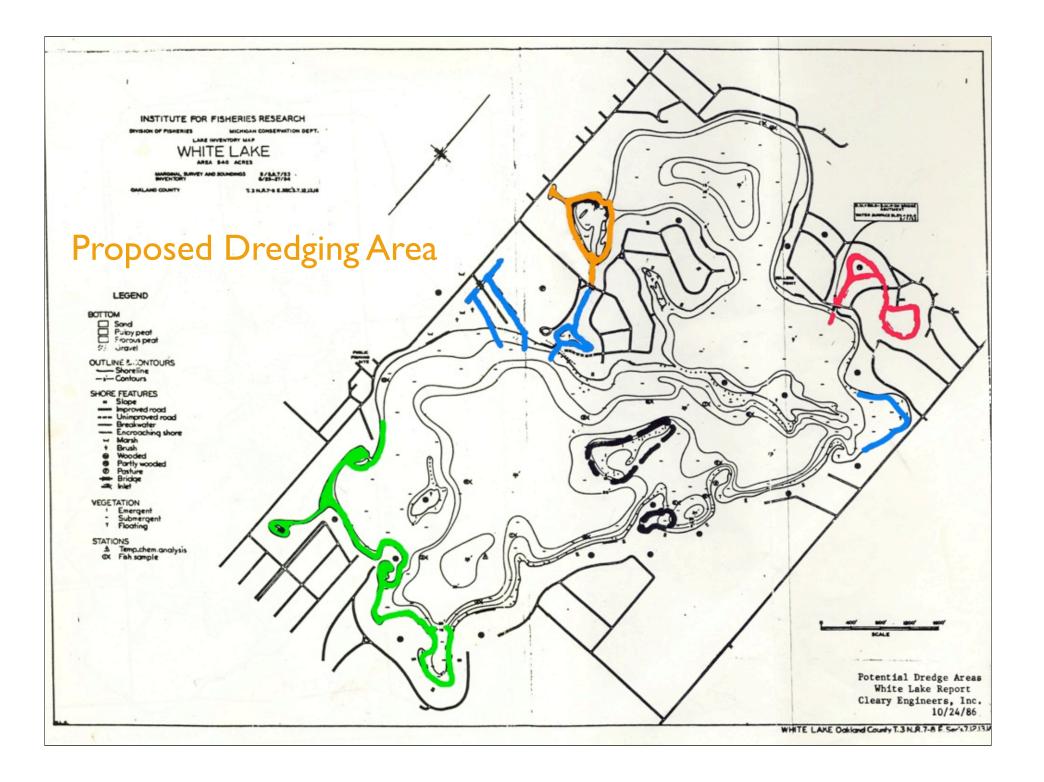
- On Site
- Truck to Private Property
- Truck to Landfill

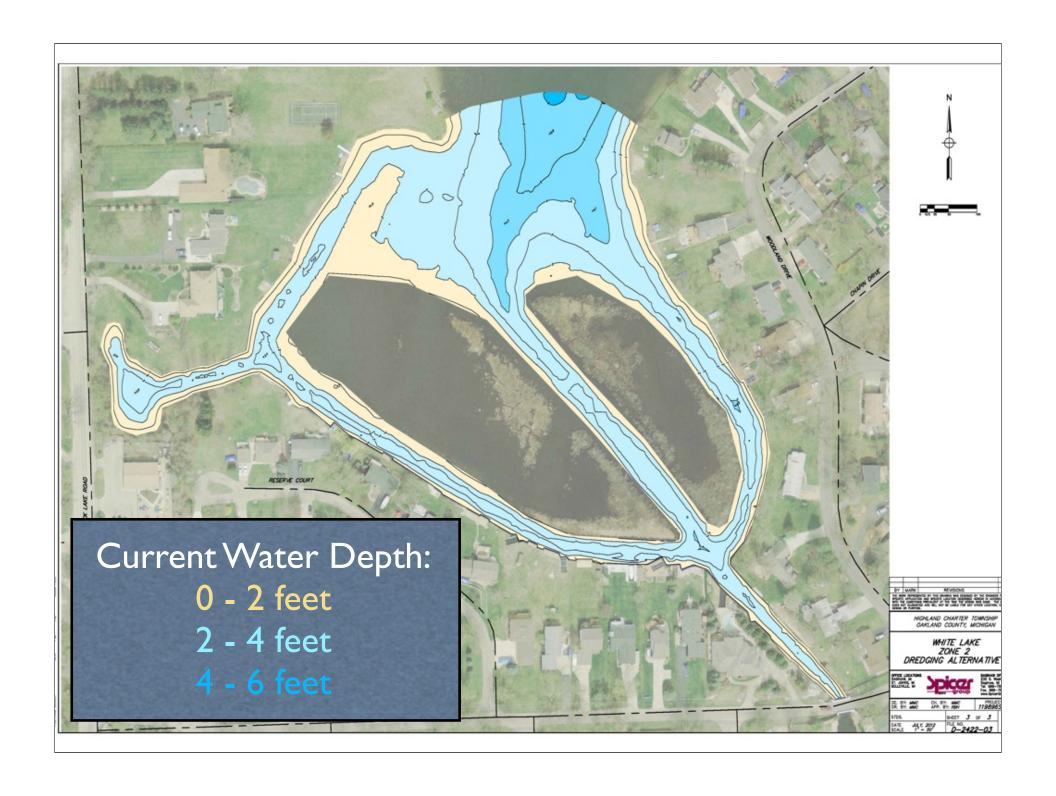
Final Site Restoration

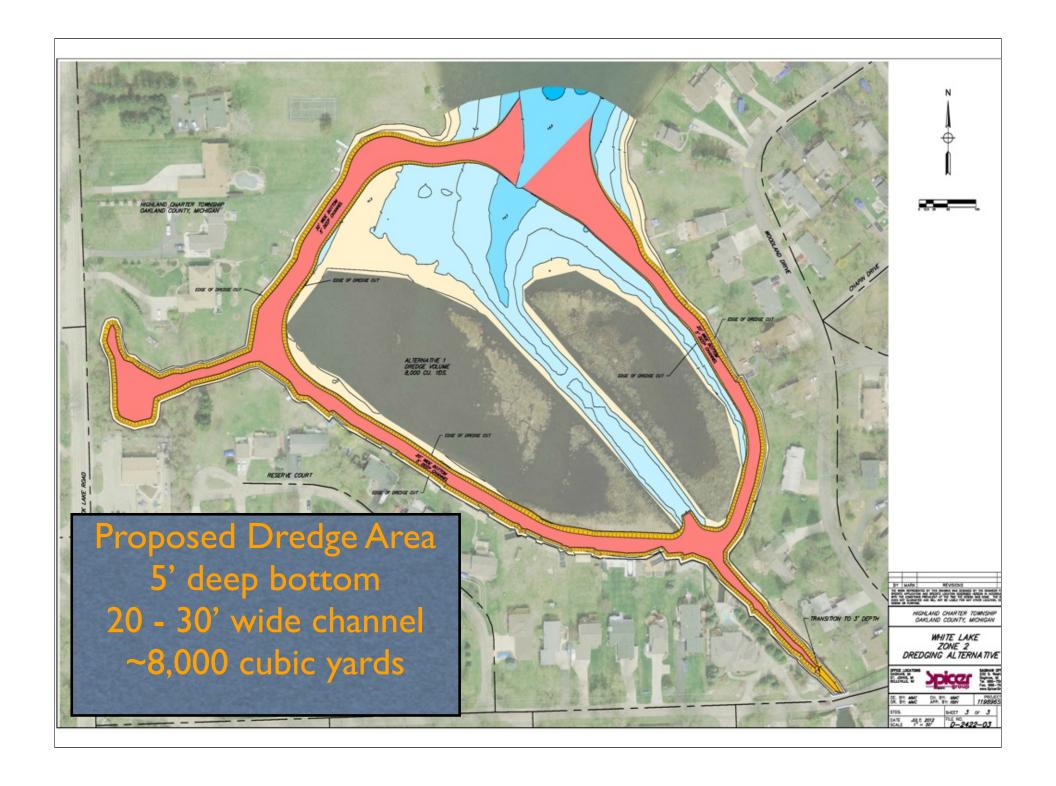
Proposed White Lake Project

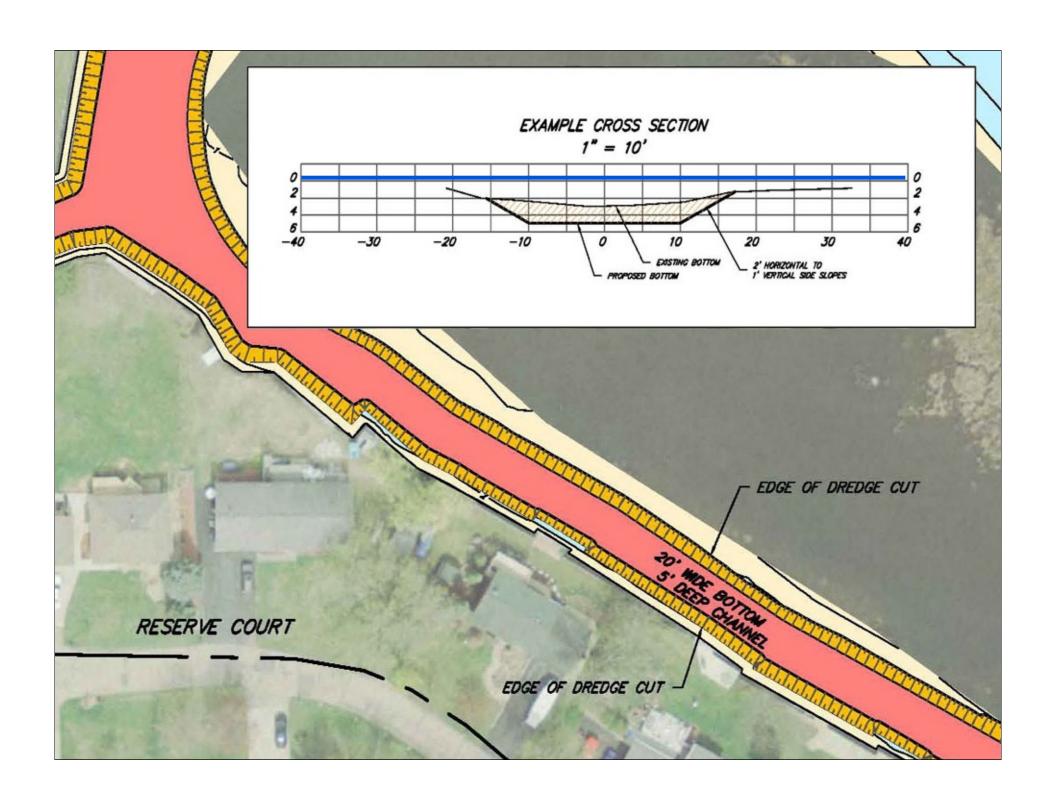
Based on the Engineering Study prepared by:











Dredging Spoils

- ∼ 8,000 cubic yards
- ~ 5 acre-feet
 - 5 acres @ 1 foot deep
 - 1 acre @ 5 feet deep
- - (19' diameter = 60' circumference)

Soil Testing

- 7 Soil Samples Taken on 6/22/12
- Analyzed by:
 - Environmental Consulting & Technology, Inc.
 - Ann Arbor, MI
- "All work was performed in accordance with applicable Michigan Department of Environmental Quality (MDEQ) protocols and operational memoranda."

7 Soil Samples Taken

- Tested for 11 different metals + Mercury
- Arsenic Levels
 - (MDEQ Background: 5800 ug/kg)
 - Sample 1: 570 ug/kg
 - Sample 2: 5,100 ug/kg
 - Sample 3: 8,900 ug/kg
 - Sample 4: 3,400 ug/kg
 - Sample 5: 6,500 ug/kg
 - Sample 6: 11,000 ug/kg
 - Sample 7: 2,200 ug/kg

7 Soil Samples Taken

- Tested for 17 different
 Polynuclear Aromatic Hydrocarbons
 - Benzo(a)pyrene found in 1 sample
 - (MDEQ Background: 180 ug/kg)
 - Sample 3: 580 ug/kg

Final Spoils Disposal

- On Site
 - Requires Restrictive Covenant on Deed
- Truck to Private Property
 - Requires Restrictive Covenant on Deed
- Truck to Landfill
 - Hazardous Material Landfill

Project Cost Estimates

Project Cost Estimates

- Engineering Management: \$30,000
- Dredging & Dewatering
 - Open Pit: \$140,000
 - Geotextile Bags: \$200,000
- Final Spoils Disposal
 - On site: \$50,000
 - Truck to Private Property: \$90,000
 - Truck to Landfill: \$165,000

Lowest Cost Option

- Engineering Management: \$30,000
- Dredging & Dewatering: \$140,000Open Pit
- Final Spoils Disposal: \$50,000
 - On site
- 10% Contingency: \$22,000
- TOTAL: \$242,000

Highest Cost Option

- Engineering Management: \$30,000
- Dredging & Dewatering: \$200,000
 - Geotextile Bags
- Final Spoils Disposal: \$165,000
 - Truck to Landfill
- 10% Contingency: \$39,500
- TOTAL: \$438,000

Special Assessment District Funding

Current SAD Budget

Year	Starting Balance	Tax Revenue	Weed Control	Legal	Water Testing	Sheriff Patrols	Dredging Study	Ending Balance
2010	138,400	107,000	135,200	3,800	6,000	6,000	0	94,400
	157,345	108,000	84,512	3,185	0	5,027	0	172,621
2011	100,400	107,000	133,200	3,800	6,000	7,000	0	64,400
	172,621	108,000	82,110	3,932	0	6,610	0	187,969
2012	64,400	107,000	112,200	3,800	6,000	7,000	35,000	7,400
	187,969	108,000	83,000	4,000	0	7,000	21,000	180,969

Budget **Actual**

Proposed SAD Assessments 2013-2017

	2010-2012	2013-2017
Lakefront	150	210
Lake Access	18	25
Commercial	368	515

Proposed SAD Budget

	Year	Starting Balance	Tax Revenue	Weed Control	Legal	Water Testing	Sheriff Patrols	Dredging	Ending Balance
	2013	180,969	151,200	85,000	4,000	100	7,000	0	236,069
STREET, STREET	2014	236,069	151,200	87,000	4,000	100	7,000	0	289,169
HATTERN TO	2015	289,169	151,200	89,000	4,000	100	7,000	272,000	68,269
	2016	68,269	151,200	91,000	4,000	100	7,000	0	117,369
	2017	117,369	151,200	93,000	4,000	100	7,000	166,000	-1,531

SAD Public Hearing

Monday, September 24, 2012 7:00 PM

Highland Township Auditorium 205 N. John Street Highland, MI 48357

The SAD Process

- The WLIB levies taxes and allocates funds
- The WLCL manages SAD spending
- The WLCL proposes a 3-5 year program
- The WLIB schedules a Public Hearing
- After listening to public comments, the WLIB votes on the SAD assessments

Thank You White Lake Citizens League