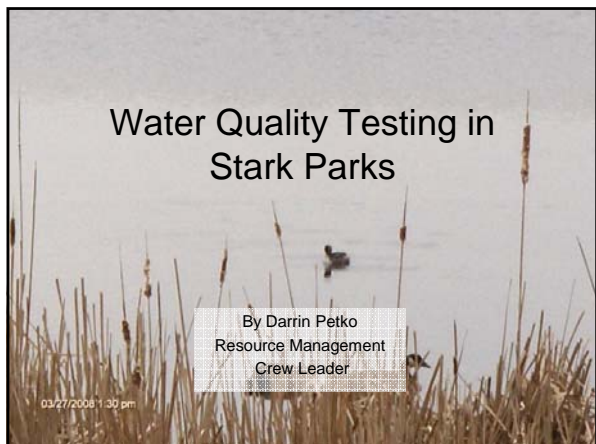


Water Quality Testing in Stark Parks

By Darrin Petko
Resource Management
Crew Leader

03/27/2008 1:30 pm

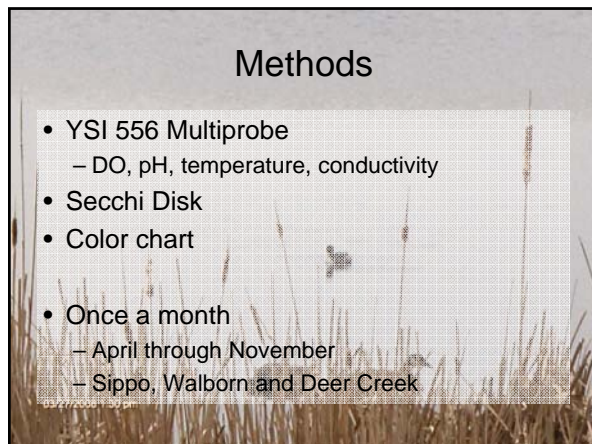


Methods

- YSI 556 Multiprobe
 - DO, pH, temperature, conductivity
- Secchi Disk
- Color chart

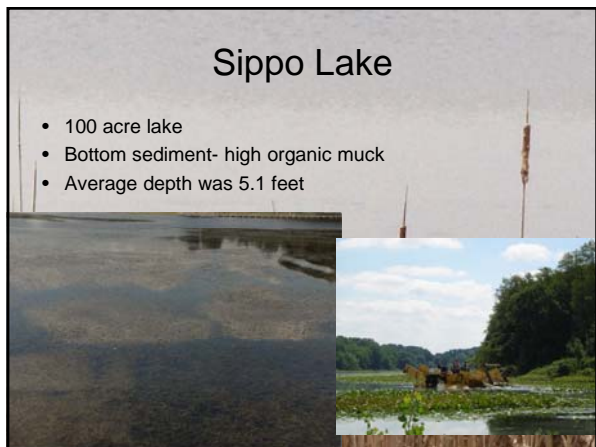
- Once a month
 - April through November
 - Sippo, Walborn and Deer Creek

03/27/2008 1:30 pm



Sippo Lake


- 100 acre lake
- Bottom sediment- high organic muck
- Average depth was 5.1 feet



03/27/2008 1:30 pm

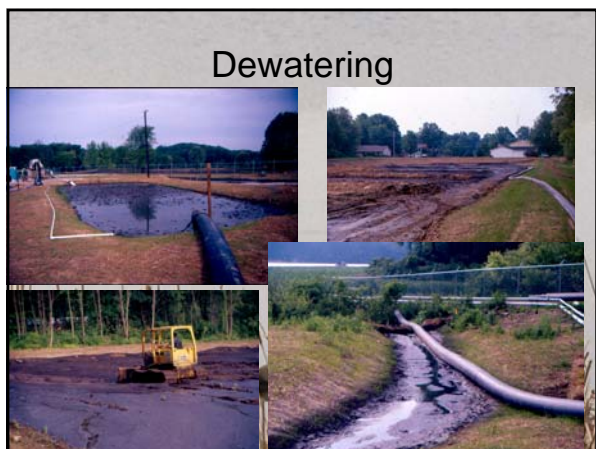
Dredging

- Dredging completed in 1998
 - 303,000 cubic feet of material removed



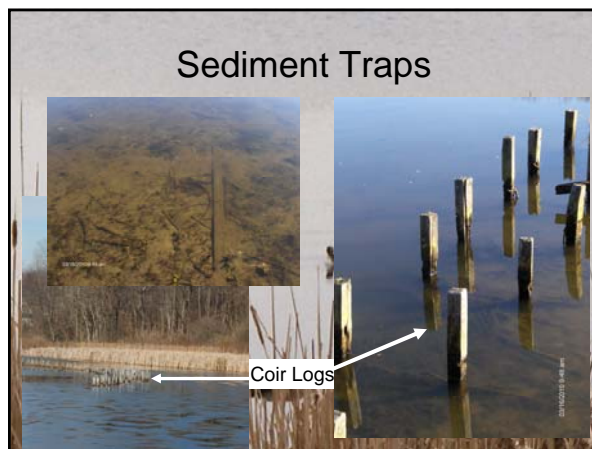
03/27/2008 1:30 pm

Dewatering



03/27/2008 1:30 pm

Sediment Traps



Coir Logs

03/27/2008 1:30 pm

Local Efforts

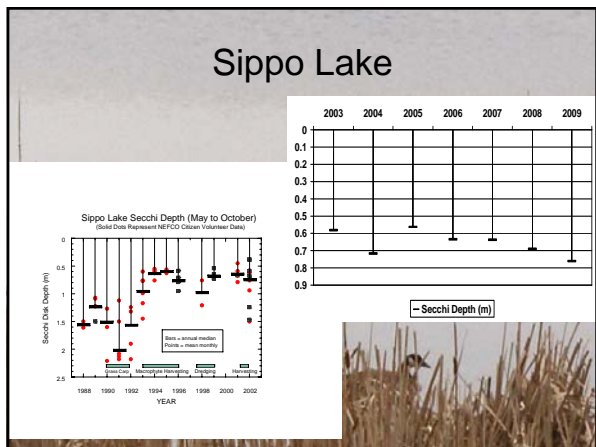


Watershed

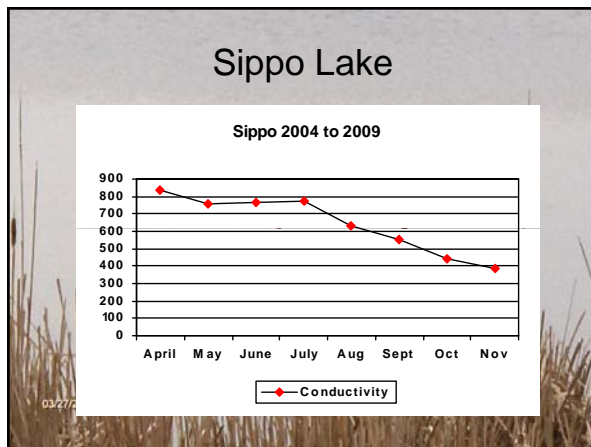
3.1 Square Miles



Sippo Lake



Sippo Lake



Walborn and Deer Creek

- Deer Creek Reservoir is drinking water source for City of Alliance
- Deer Creek has concrete spillway
- Walborn Reservoir maintains level in Deer Creek
- Deer Creek is 300 acres
- Walborn is 689 acres
- Area around lakes is agricultural with one small town of 79 houses

Water Issues

- **The-Review.com**
 - **Alliance hunting for source of musty smell in drinking water**
 - Stephanie Ujhelyi
 - January 22, 2009
 - By STEPHANIE UJHELYI
- The Review
 City officials count on a few residents with sensitive sniffers and intuitive taste buds to let them know when the city water supply isn't quite right.

Nutrients

- **The-Review.com**
- **Raw sewage found flowing toward Walborn Reservoir**
- June 10, 2009
- By STEPHANIE UJHELYI
- The Review
- Could Marlboro residents be inadvertently putting the musty smell in Alliance's water?
- Marlboro Township's sewage issues have plagued its neighbors for years; however, officials are now wondering if it might be responsible for the high nutrient content in the area's water system.

Nutrients

- Field tests for phosphate, chloride, ammonia, nitrite and nitrate nitrogen and dissolved oxygen were highly elevated on the sample.
- According to the Ohio Environmental Protection Agency, total phosphorus levels result in "nuisance growths of algae, weeds and slimes that result in taste or odor problems."
- However, Reynolds decided to follow up on an anonymous tip on a site across the street. Samples revealed equally high counts. The chloride counts were off the scale during field testing.

Partners

- City of Alliance
- NEFCO
- Stark County Health Department
- ODNR Division of Wildlife
- OEPA

03/27/2008 1:30 pm

Questions?

Darrin Petko
Stark County Park District
dpetko@starkparks.com
Cell- 330-353-1357