



Owner Meeting
Lake Maintenance
Thursday, May 10, 2007
Cherokee County Community Center at
BridgeMill

Meeting Overview

- Introduction
- Lake Maintenance Goals
- Project Overview
- Communication Plan
- Q & A

Why Do Lake Maintenance Now? Talk About Shallow!



Lack of BMP's, Upstream Development = Loss of Depth in Four Years



Lake Maintenance Goals

- Remove approximately 15,000 cubic yards of silt from the upper one-third of our lake and feeder streams
- Minimize neighborhood inconvenience while understanding dredging is “messy”
- Complete the dredging process in four months
- Restore the playing field in six months to a common area with multi-use potential

Lake Maintenance Goals

- Communicate dredging status weekly through the website, www.lakesovereign.net
- Slow and contain future silt accumulations to the far upper end of the lake
- Continue sound financial management with a managed lake reserve fund for the next dredging event. We have learned silt is an event of nature.



Who Will Do the Work?

Dredging Company Selection

- Took competitive bids from five dredging companies with extensive reference checks on finalists
- Reviewed potential methods for silt removal and relocation
 - Hydraulic dredging/spoil sediment ponds
 - Hydraulic dredging/geo bags
 - Clamshell dredging/grade site
 - Drain the lake/grade site

Aquatic Solutions, Newnan, Georgia

Method -- Clamshell Dredge

Experience – Seventeen years

Clients --

- Lake Lanier
- Callaway Gardens
- Windward HOA, Alpharetta
- Horseshoe Bend HOA, Roswell
- Lake Toxaway, North Carolina

Most clients have used Aquatic Solutions multiple times

Aquatic Solutions, Newnan, Georgia

Pros for Clamshell Dredging—

- Limits invasion of lake hardpan (lake bottom)
- Allows removal of logs
- Allows more water to be extracted from silt before being transported to spoils site

Aquatic Solutions, Newnan, Georgia

Pros for Clamshell Dredging—

- Allows for easier silt removal at smaller tributary locations
- Avoids draining the lake
- Preserves wildlife and marine life
- Allows work to continue during rain unless lightning accompanies a storm

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Equipment Impact to Neighborhood--

- One floating self-propelled clamshell dredge
- Two tugboats
- Four hopper barges
- One on-shore clamshell excavator
- One tandem dump truck
- One small dozer on spoil site

Aquatic Solutions, Newnan, Georgia

Clamshell Dredge Arrives on Site



Aquatic Solutions, Newnan, Georgia

Clamshell Dredge Unloaded



Aquatic Solutions, Newnan, Georgia

Size of Equipment Allows Mobility and Maneuvering



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Clamshell Loads Silt On Barge



Aquatic Solutions, Newnan, Georgia

Clamshell Dredge Loads Barge with Ten Cu. Yds. Of Silt



Aquatic Solutions, Newnan, Georgia

Excavator Unloads Silt from Barge to Truck



Aquatic Solutions, Newnan, Georgia

Excavator Unloads Silt from Barge to Truck



Aquatic Solutions, Newnan, Georgia

Sealed Trucks To Move 1500 Loads to Spoils Site



Neighborhood Impact

- Hours of dredging operation 8:00 a.m. to 6:00 p.m., Monday through Friday
- Equipment on lake for four months
- Limited use of the lake during May through August (use of lake after 6:00 p.m. on weekdays and all day on weekends)
- Disruption to common grounds at silt removal site and spoils site (playing field)

Neighborhood Impact

- Potential for dirt on West Ridge Drive
- Potential for wave action on lake owner shorelines
- West Ridge Drive traffic impacted while silt is trucked
- Additional three months for silt to dry before final grade and landscaping spoils site (playing field)
- Potential for odor from drying silt (odor depends on amount of organic material)



Where and When Do We Start?

The Spoils Site-- WRD Playing Field

- Spoils site (playing field) work will begin two to three weeks prior to actual dredging work, although dredging equipment and barges will begin to arrive
- Drainage lines to be extended
- Erosion BMP's to be installed
- Three access points from West Ridge Drive
- Dozer to grade as silt arrives

Review of the Silt Removal Plan



Points of Silt Removal



Communication

- Initial Owner Meeting -- May 10, 2007
- Weekly updates on the neighborhood website, www.lakesovereign.net
- Goal is to keep owners informed, complete the effort in a well-planned approach to minimize the time the neighborhood is impacted

How Can Owners Help?

- Equipment and process will be an attraction

The periodic LSHOA Security and the Cherokee County Sheriff's Department will be monitoring the equipment site

- Keep children and pets away from equipment and site—it is dangerous
- Do not interact with the work crews—your LSHOA is paying them to get the job done as quickly as possible—specific questions can be directed through the website contact button

How Can Owners Help?

- Check the website weekly to get the current progress report – www.lakesovereign.net
- The website allows for consistency of information and progress
- Be patient as any silt removal method represents inconvenience—we can only work together to minimize it

Result by October 2007

- A restored lake for your recreational enjoyment and increased asset values
- A restored lake with increased aquatic habitat
- A restored lake with reduced opportunity for weed, algae and noxious aquatic growth
- A restored lake with reduced potential for a future dredging for another eight to ten years, depending upon natural conditions for siltation

The Lake Maintenance Committee

Louis Tooker, LSHOA Director and Chairman

James Derr, LSHOA President

John Krueger, Common Grounds Chairman

Phyllis Lea, LSHOA Director

David Perry, Lake Committee Chairman

Life on Lake Sovereign



Life on Lake Sovereign





Questions and Answers

