

# **LMOA Dredging Program**

The First Year



# **LMOA Dredging Program Plan**

## **The First Year**

- **Develop dredging expertise and experience**
- **Dredge the headwaters of the major coves**
- **Create BMPs in the major coves**
- **Learn how to maintain the equipment**
- **Develop procedures to accurately record dredging data**

# **What We Accomplished**

## **Dredging Expertise and Experience**

Average Cubic Yards per Day

- **2009 July: 12 ... 2.0 loads per day**
- **2009 August: 15 ... 2.5 loads per day**
- **2010 March : 12 ... 2.0 loads per day (Adams Cove)**
- **2010 July : 21 ... 3.5 loads per day**

# What we Accomplished

## **Dredging the Headwaters and BMPs**

### **Dredged the headwaters of the 4 major coves**

- Jackson      615 cubic yards
- Monroe      444 cubic yards
- Adams      497 cubic yards
- Van Buren   780 cubic yards

### **Created BMPs**

**Cove #1**                      666 cubic yards

**Homeowners**              85 cubic yards

**Total: 3,087 cubic yards**

# What We Accomplished

## **Equipment Maintenance**

### **Developed and refined maintenance checklists**

- ✓ Detailed Checklists for Scheduled Maintenance
- ✓ Detailed Checklists for Fuel
- ✓ Detailed Checklists for Supplies Used

We had no major equipment problems as seen by Lake of the Woods and the City of Norfolk

Fitted a used golf cart roof system and windshield to protect Carl from the elements

Installed prototype curtain enclosure system for cold weather

# What We Accomplished

## **Dredging Data Records**

### Daily Dredging Data Tracking Information

- Time
- Sediment Dredged
- Cove Location
- Maintenance
- Supplies
- Spoils Area Grading
- Successfully submitted Corps of Engineers required data for 2009
- Spreadsheets for all aspects of the Dredging Program

# 2010-2011 Look Ahead

- **Continue proven dredging rotation schedule**

Began 20 July 2010, the planned annual cycle with operations in Jackson Cove

Check previously dredged headwater area, clean as necessary and expand the area

Check and clean BMPs as needed

Dredge a smaller cove area

- **Begin Homeowner Dredging Program**

Dredge section 3 (expect to begin fall)

- **Dredge more material**

Lost **46** dredging operating days due to heavy rains, snow and ice

Better Expertise

- **Continue to Improve Carl's Work Environment**

Working on a golf cart cold weather cover for protection

# 2009-2010 Benefits to LMOA

## **Intended**

- Reduced sediment in the lake
- Cleaner cove headwaters
- Better water quality environment in dredged areas
- Increased fish spawning areas

## **Unintended**

- A FREE experienced operator (Carl) to LMOA maintenance for two months during the severe winter weather
- Excellent relationship with the Corps of Engineers









