



# *Lake Lemon Conservancy District*

**To: Lake Lemon Conservancy District Board of Directors and Freeholders**  
**From: Bob Madden, Manager**  
**Subject: 2012 Annual Report**  
**Date: February 6, 2013**

This report is a summary of the most significant operational tasks the LLCD addressed in 2012.

## **1. BOARD OF DIRECTORS:**

Two (2) LLCD Board positions were filled in 2012. Kristin Spickelmier ran unopposed and was elected to a four (4) year term in Sub Area III. Term will expire in 2016. Dennis Friesel ran unopposed and was elected for another four (4) year term in Sub Area V. Term will expire in 2016. Board officers for 2012 were John Schell, Chairman; Bruce Cassal, Vice-Chairman; and Tina Thrasher, Treasurer.

## **2. PERSONNEL:**

Staff for 2012 included Jake Morrow, Patrick Campbell, Joe Hopkins, and Chris Nguyen, Gate Attendants; Adam Casey and James Van Tassel, Lake Biologist; Hunter Mann, Maintenance Technician; Levi Warthan, Barge Operator; Larry Hays and Greg Goshorn, Push Boat/Truck Operator.

## **3. GATE HOUSE OPERATIONS:**

The 2012 boating season started on Saturday, March 17<sup>th</sup>, and ended on Sunday, December 2<sup>nd</sup>. Boat permits and launch fees collected in 2012 totaled \$131,271.00. The District hosted 41 fishing tournaments in 2012.

## **4. 2012 BOATING SAFETY/ENFORCEMENT:**

- A. There were no boating accidents reported to LLCD or IDNR Law Enforcement in 2012. However there were several personal injury accidents. 1. An adult woman severed a finger when her ring finger caught on a boat ladder. 2. A young adult woman received some minor burns to her legs when the boat engine caught fire.

- B. The LLCDC reported to all Law Enforcement Agencies the theft of batteries around the lake this summer.
- C. IDNR Law Enforcement had a visible presence on the reservoir in 2012. Fifty one (51) citations and forty eight (48) warning tickets were issued.
- D. The Monroe County Sheriff's Department responded to an altercation between several persons at Riddle Point Beach in May. Report was filed, no arrests made.

**5. 2012 AQUATIC PLANT MANAGEMENT:**

Lake Lemon experienced above average levels of nuisance vegetation in 2012. The 2011/2012 drawdown did not expose the lake bed for an effective deep freeze. A deep freeze of the lake bed can eradicate nuisance vegetation by destroying the root crowns. This coupled with the warm temperatures in early spring, lack of precipitation, and low lake level allowed for vegetation to proliferate early on and in deep water. Eurasian Watermilfoil (milfoil) flourished in the bay east of Reed Point. The low water level allowed for milfoil to cover almost the entire bay. Most of the vegetation in the lake proper was not treated due to budget constraints. The LLCDC's efforts in weed treatments were directed toward keeping Freeholders boat docks and lake access free of weeds. Vegetation not in these areas was left to provide structure and fish habitat to the lake. Aquatic Control is contracted to treat our vegetation. They sprayed on four different occasions from June to August. The total expenditures were \$53,264.60 (\$50,000.00 budgeted) for 2012.

**6. 2011/2012 WINTER DRAWDOWN:**

The sluice gate was opened on November 21<sup>st</sup>, 2011 to commence the drawdown, the lake was at normal pool. Rain throughout December kept the lake relatively high. On January 17<sup>th</sup>, 2012 the lake reached a low of 625.7' or 52" below normal pool. Rain the following week caused the lake to rise quickly. The sluice gate was closed on February 3<sup>rd</sup>, 2012 with a lake level of 629' or 14" below normal pool. The drawdown provides an opportunity to freeze and destroy the root structure of nuisance vegetation while parts of the lake bed are exposed. The warm winter and ineffective drawdown had little to no effect in eradicating any aquatic vegetation. The summer of 2012 proved this with abnormally high levels of aquatic vegetation. Drawing down the lake also plays a beneficial role in the health of fisheries. Decreasing the total volume of water helps to concentrate game fish such as bass with feeder fish during the drawdown.

**7. 2012 WILDLIFE CONTROL:**

The LLCDC received permission from the IDNR, Fish and Wildlife Division to treat resident Canada Goose nest and eggs. IDNR only requires registration and a final report on how many nests were treated. Due to the warm weather the Canada Goose nesting period started earlier than normal. In early April Adam Casey, Lake Biologist, treated 8 nests totaling 50 eggs on Cemetery Island. The nesting at Cemetery Island appears to be down from years past. The LLCDC will continue our efforts in treating eggs in the 2013 season.

**8. 2012 WATER TESTING:**

- A. Indiana University's School of Public and Environmental Affairs (SPEA) conducted the tests. The tests included a review of such parameters as clarity, nutrients, algae, dissolved oxygen, and fecal coliform bacteria. The 2012 results are expected in May 2013 from SPEA. All previous reports may be found on our website.
- B. The LLCDC Biologist monitored E. coli concentrations at Riddle Point Park beach once a week starting in May and ending in September. All tests were well below the risk threshold established by the State of Indiana.

**9. RIDDLE POINT PARK:**

- A. The park opened on Saturday, May 26<sup>th</sup>. Park admissions were charged daily thru Monday, September 3<sup>rd</sup>. The season vehicle pass was \$60.00; Daily park admission was \$5.00 per vehicle. Total park admissions collected was \$29,315.00.
- B. The Riddle Point Park shelter was rented 13 times. The shelter rental fee was \$125.00/day. Total shelter rental fees collected were \$1,625.00.
- C. Events hosted by the IU Women's Varsity Rowing Team, and the Lake Lemon Triathlon, hosted by Phi Kappa Psi fraternity from IU, generated an additional \$3,775.00 in revenues.
- D. The LLCDC Board hosted the Independence Day Fireworks Show at Riddle Point Park on July 6<sup>th</sup>. Sky Magic Pyrotechnics, Inc, Brazil, IN, conducted the show at a cost of \$6,500.00. Donations and contributions collected for the event totaled \$5,491.63.

**10. SHORELINE PROJECT PERMITS:**

- A. Fourteen (14) permits were issued to lake freeholders in 2012. These projects dealt primarily with shoreline erosion control, sea wall construction, and minor shore-line improvements. Since 1996, 321 shoreline permits have been issued to Conservancy freeholders.

**11. 2012 LLCD LAKE ENHANCEMENT PROGRAM:**

The Lake Enhancement Program consists of four primary maintenance functions: lake debris and stump removal; shore-line erosion control stabilization (rip-rap stone); lake dredging (sediment removal); and sediment/debris disposal site(s) development and maintenance.

These functions are accomplished through LLCD's self managed barge operation. Consisting of two (2) part-time employees and the following pieces of equipment: A. 66 foot long x 36 foot wide steel barge; B. Excavator; C. Push boat; D. Bulldozer; E. Articulated off road truck; and F. Maintenance Utility Truck.

A Summary of 2012 Maintenance Functions are as follows:

- I. ATTACHMENT A- 2012 LAKE DEBRIS/STUMP REMOVAL: FINAL FINANCIAL SUMMARY**
- II. ATTACHMENT B- FINAL FINANCIAL 2012 SHORE-LINE STABILIZATION (RIP-RAP) SUMMARY**
- III. ATTACHMENT C- 2012 FINAL FINANCIAL SUMMARY OF LLCD DREDGING (SEDIMENT REMOVAL)**
- IV. ATTACHMENT D- 2012 FINAL POSSOM TROT DISPOSAL SITE PREPARATION EXPENSES**

**12. INSURANCE SERVICES:**

Provided by First Insurance Group, Bloomington, IN. (Lance Eberle).

**13. ACCOUNTING SERVICES:**

Provided by Watkins Accounting, Bloomington, IN. (Shirley Watkins).

**14. LEGAL SERVICES:**

Provided by Andrews, Harrell, Mann, Carmin, & Parker, Attorneys at Law, Bloomington, IN. (Angela Parker).

**15. LLCD'S FINANCIAL INSTITUTION:**

The Peoples State Bank, Ellettsville, IN. (Johnny Lindsey)

Attachment "A"

**2012 Lake Debris**

**Financial Summary**

<b>EXPENSES</b>	
<b>Staff Costs:</b> <b>Dredger</b> 49 hours @ \$34/hr <b>Assistant Dredger</b> 49 hours @ \$17/hr	\$1,666.00  \$833.00
<b>Fuel (Estimated)</b>	7 Gallons/hour @ \$3.30/gallon x 33 hours= \$762.30
<b>Contractual Services</b>	\$1,200.00
<b>Rental Equipment</b>	\$1,000.00
<b>Grand Total</b>	<b>\$5,461.30</b>

Attachment "B"

**2012 Shore-Line Stabilization (Rip-Rap)**

**Financial Summary**

Service Zone (District)	Total Tons (Rip-Rap) Stone	Total Linear Feet
204 (I)* (Riddle Point Ramp)	142.15	100'
124 (IV)* (N. Shore Marina Cove)		25'

\*: CBU Shore-line

Total Cost of Rip-Rap Stone: \$2,005.39

Total Staff Costs: \$688.50 (13.5 Hours @ \$51/hour)

Total Fuel (estimated): \$277.20

(7 Gallons/hour @ \$3.30/gallon x 12 hours)

**Total Cost: \$2,971.09**

Attachment "C"

**2012 Sediment Removal**

**Financial Summary**

<b>Personnel Costs</b>	<b>Actual 2012</b>	<b>Budgeted 2012</b>
Dredger 598.5 Hours @ \$34/Hr.	\$20,349.00	\$20,400.00
Assistant Dredger 520.5 Hours @ \$17/Hr.	\$8,848.50	\$10,200.00
Benefits (FICA/SUTA)	\$2,337.29	\$2,448.25
<b>Total Personnel</b>	<b>\$31,534.79</b>	<b>\$33,048.25</b>
<b>Difference (\$)</b>	<b>(-\$1,513.46)</b>	

<b>Supply Costs</b>	<b>Actual 2012</b>	<b>Budgeted 2012</b>
Diesel Fuel (Grease, Oil, etc)	\$12,286.60	\$10,000.00
Dredging Supplies	\$9,233.88	\$4,000.00
<b>Total Supply Cost</b>	<b>\$21,520.48</b>	<b>\$14,000.00</b>
<b>Difference (\$)</b>	<b>(+\$7,520.48)</b>	

<b>Services &amp; Charges</b>	<b>Actual 2012</b>	<b>Budgeted 2012</b>
Insurance	\$9,142.00	\$9,142.00
Repair/Maintenance & Equipment Rental	\$7,191.49	\$10,000.00
Loan Service	\$46,000.00	\$46,000.00
<b>Total Services &amp; Charges</b>	<b>\$62,333.49</b>	<b>\$65,142.00</b>
<b>Difference (\$)</b>	<b>(-\$2,808.51)</b>	

<b>Grand Total</b>	<b>Actual 2012</b>	<b>Budgeted 2012</b>
	<b>\$115,388.76</b>	<b>\$112,190.25</b>
<b>Grand Total Difference +\$3,198.51</b>		

Attachment "D"

**2012 Possom Trot Disposal Site Preparation**

**Financial Summary**

<b>Category</b>	<b>Cost</b>
<b>2012 Expenses</b>	
<b>Staff</b> Dredger	\$10,047.00 (295.5 Hours @ \$34.00/hr) (29 Days)
Assistant Dredger	\$3,153.50 (185.5 Hours @ \$17.00/hr) (19 Days)
<b>Total Staff Costs</b>	<b>\$13,200.50</b>
<b>Supplies</b> Stone Diesel (estimated) (7 gal/hr @ \$3.30/gal x 152 hrs) Grease, Oil, Etc.	\$5,557.98 \$3,511.20 \$583.29
<b>Total Supply Costs</b>	<b>\$9,652.47</b>
<b>2012 Grand Total</b>	<b>\$22,852.97</b>