

**To: Lake Lemon Conservancy District Board of Directors and Freeholders**  
**From: Bob Madden, Manager**  
**Subject: 2009 Annual Report**  
**Date: February 3, 2010**

This report is a summary of the most significant operational events and administrative accomplishments LLCD addressed in 2009.

**1. BOARD OF DIRECTORS:**

Two (2) LLCD Board positions were filled in 2009. John Schell was elected to a four (4) year term in Sub Area IV and Bruce Cassal was re-elected to a four (4) year term in Sub Area I. Both terms will expire in 2013. Board officers for 2009 were Marty Mann, Chairman; Dave Hobson, Vice-Chairman; and Dennis Friesel, Treasurer.

**2. PERSONNEL:**

Staff for 2009 included Brandon Cain, Jake Morrow, and Patrick Campbell, Gate Attendants; Adam Casey, Lake Biologist; and Ed Schoff, Maintenance Technician.

**3. GATE HOUSE OPERATIONS:**

The 2009 boating season started on Saturday, March 21<sup>st</sup>, and ended on Sunday, November 29<sup>th</sup>. Boat permits and launch fees collected in 2009 totaled \$118,112.00. The District hosted 32 fishing tournaments.

**4. 2009 BOATING SAFETY/ENFORCEMENT:**

- A. There were no boating accidents reported to LLCD or IDNR Law Enforcement in 2009.
- B. IDNR Law Enforcement had a visible presence on the reservoir in 2009. 36 arrest warrants and 17 warning tickets were issued.
- C. LLCD Lake Patrol issued 5 City of Bloomington Ordinance violation citations for failure to obtain a LLCD Boat Permit.

## **5. 2009 AQUATIC PLANT MANAGEMENT:**

On July 28th, Aquatic Control, Inc. treated 36.8 acres of Eurasian watermilfoil and other weeds around docks and in boating lanes, in addition to treating 13.2 acres of spatterdock at the east end of the lake. On August 20<sup>th</sup> and again on September 28<sup>th</sup>, Aquatic Control performed additional treatments for lotus and spatter dock at locations on both the east and west end of the lake. The additional treatments totaled about 8 acres of spatterdock. This concluded the 2009 weed control efforts. Total expense for 2009 weed treatments was \$20,919.25.

## **6. 2009 WINTER DRAWDOWN:**

During the 2009 winter lake drawdown Lake Lemon experienced an extended period of freezing temperatures. This exposure of near shoreline benthic zones resulted in the freezing of the exposed substrate up to several inches in areas of the lake. Studies have shown this to greatly decrease the abundance of aquatic vegetation, especially for rooted species such as Eurasian watermilfoil and Spatterdock that generally grow back from existent root structures. We believe that the winter drawdown was largely responsible for our greatly decreased weed abundance during the 2009 season. Additionally, concentrating game fish such as bass with feeder fish during the drawdown is very beneficial for the fishery.

## **7. 2009 INDIANA CLEAN LAKES PROGRAM:**

LLCD continued its involvement with this program in a cooperative effort between LLCD, Indiana Department of Environmental Management (IDEM), and School of Public and Environmental Affairs at Indiana University (IU-SPEA). This long-term monitoring program tests for water clarity/transparency and qualitative algae counts based on color readings. Monitoring is done multiple times a month during the boating season. The monitoring will help LLCD identify any changes in water quality over time. In 2009, 10 Secchi disk readings were taken, with an average clarity depth of 3.6 feet.

## **8. 2009 WILDLIFE CONTROL:**

On April 13<sup>th</sup>, the LLCD received permission from the IDNR, Fish and Wildlife Division to treat resident Canada goose nests and eggs. Similar to last year, IDNR did not require a permit to treat resident Canada goose nests and eggs. IDNR only requires registration and a report on how many nests were treated. The primary nesting site for geese on Lake Lemon is Cemetery Islands located at the west end of the lake. On April 23<sup>rd</sup>, 17 nests were treated on the islands, totaling 116 eggs. A follow up inspection showed that there were no new nests or eggs, and none of the treated eggs had hatched. This is an ongoing effort to help control the Canadian goose population on Lake Lemon.

## **9. 2009 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 2009 results are expected in May 2010 from SPEA.
- B.** The LLCD 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.

## **10. RIDDLE POINT PARK:**

- A.** The park opened on Saturday, May 23<sup>rd</sup>. Park admissions were charged daily thru Monday, September 7<sup>th</sup>. The season vehicle pass was \$50.00; Monday thru Friday park admission was \$4.00 per vehicle; weekend/holiday park admission was \$5.00 per vehicle. Total park admissions collected were \$24,393.00.
- B.** The Riddle Point Park shelter was rented 14 times. The shelter rental fee was \$125.00/day. Total shelter rental fees collected were \$1,750.00.
- C.** Fee's for three events hosted by the IU Women's Rowing Team; the annual Lemonhead regatta hosted by the Riddle Point Rowing Association; and the Lake Lemon Triathlon generated an additional \$1,250.00 in revenues.
- D.** The LLCD Board hosted the Independence Day Fireworks Show at Riddle Point Park on July 3<sup>rd</sup>. Smart Displays, LLC, Bloomington, IN, conducted the show at a cost of \$6,600.00. Donations and contributions collected for the event totaled \$5,895.38.

## **11. SHORELINE PROJECT PERMITS:**

- A.** Fifteen (15) permits were issued to lake freeholders in 2009. These projects dealt primarily with shoreline erosion control, sea wall construction, and minor dredging. Since 1996, 287 shoreline permits have been issued to Conservancy freeholders.

## **12. LLCD SEDIMENTATION REMOVAL PROGRAM:**

- A.** No priority areas were dredged in 2009 as the LLCD was in the process of bidding and purchasing necessary dredging equipment for an LLCD in-house management dredging operation in 2010. Dredging will begin again in 2010.
- B.** The District continued the process of acquiring a second disposal site on the east end of the reservoir.

**13. 2010 GOALS:**

- I. Apply for and hopefully obtain a \$55,000 Grant from IDNR Lake and River (LARE) Program for treatment of exotic nuisance vegetation in the reservoir.
- II. Continue the on-going process of obtaining a sedimentation disposal site on the east end of the reservoir.
- III. Implement and manage the district's in-house dredging operation.
- IV. Finalize financial plans for establishing an LLCED Endowment Fund.