

To: Lake Lemon Conservancy District Board of Directors and Freeholders
From: Bob Madden, Manager
Subject: 2007 Annual Report
Date: February 6, 2008

This report is a summary of the most significant operational events and administrative accomplishments LLCD addressed in 2007.

1. BOARD OF DIRECTORS:

One (1) LLCD Board position was filled in 2007. Dave Hobson was re-elected to a four (4) year term in District VII. His term will expire in 2011. Board officers for 2007 were Marty Mann, Chairman; Dave Hobson, Vice-Chairman; and Dennis Friesel, Treasurer.

2. PERSONNEL:

- A. Staff for 2007 included Evan Buckmaster and Jake Morrow, Gate Attendants; Scott McWhorter, Lake Biologist; and Ed Schoff, Maintenance Technician.
- B. Volunteer recognition awards were presented to Freeholders John Ellis and Jim Sutton for their continuous beautification efforts along South Shore Drive and the Long Causeway.

3. GATE HOUSE OPERATIONS:

The 2007 boating season started on Saturday, March 17th, and ended on Sunday, December 2nd.

4. 2007 BOATING SAFETY:

- A. There were no boating accidents reported to LLCD or IDNR Law Enforcement in 2007.
- B. IDNR Law Enforcement had a visible presence on the reservoir in 2007. Sixteen (16) arrest tickets and nine (9) warning tickets were issued.

5. 2007 AQUATIC PLANT MANAGEMENT:

On May 23rd, Aquatic Control, Inc. treated 42.8 acres of Eurasian watermilfoil in several boating areas on the east end of the lake and 61.25 acres of Eurasian watermilfoil, coontail and small leaf pondweed around docks and in boating lanes. On Friday June 8th and Monday June 11, follow-up treatments were performed on 15.7 acres and an additional treatment of 4.9 acres of Eurasian watermilfoil and 15.3 acres of Eurasian watermilfoil, coontail and small leaf pondweed around docks and boating lanes. On Friday July 13, treatments were performed on 0.9 acres of Eurasian watermilfoil on the west end, and 1.2 acres of coontail in the east end. Also treated was 3.4 acres of Spatterdock in the Chitwood area channels, and the northeast channel near the inlet of Beanblossom Creek. On Thursday, August 2, treatments were performed on 18 acres of American Lotus; follow-up treatments for the 0.9 acres of Eurasian watermilfoil; 1.2 acres of coontail; 3.4 acres of Spatterdock originally treated on July 13; and an additional 4 acres of milfoil was treated on the west end. On Friday, August 17, a follow-up treatment was performed on the 17.9 acres of American Lotus. This concluded the 2007 weed control efforts. Total expense for 2007 weed treatments was \$62,629.75, including a \$24,680.00 grant from IDNR's Lake and River Enhancement Program (LARE).

6. 2007 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 on a monthly basis. The monitoring will help LLCD identify any changes in water quality over time. In 2007, 15 Secchi disk samples were taken, with an average depth of 3.6 feet.

7. 2007 WILDLIFE CONTROL:

On April 10th, the LLCD received permission from the IDNR, Fish and Wildlife Division to treat resident Canada goose nests and eggs. This year IDNR did not require a permit to treat resident Canada goose nests and eggs. IDNR only required 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 21st, fifteen (15) nests were treated on the islands. Eighty-two (82) eggs were shaken in the nests.

On December 4, nuisance beaver activity was reported in the newly dredged Possum Trot Creek channel. IDNR was contacted and recommended a local trapper who was successful in trapping 7 beavers.

8. GRANTS:

- A. In March 2007, the LLCDC received a \$100,000.00 grant from the IDNR LARE Program to remove sedimentation from the reservoir. This was the third \$100,000 sedimentation removal grant the District had received in the past three years.
- B. In April 2007, the LLCDC received a \$24,680.00 grant from the IDNR LARE Program to treat exotic/nuisance plants in the reservoir during 2007.
- C. See attached

9. 2007 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 2007 results are expected in May 2008 from SPEA.
- 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.

10. RIDDLE POINT PARK:

- A. The park opened on Saturday, May 26th. Park admissions were charged daily thru Monday, September 3rd. The season vehicle pass was \$50.00; daily vehicle pass was \$4.00. Total park admissions collected were \$23,226.00.
- 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. The LLCDC Board hosted the Independence Day Fireworks Show at Riddle Point Park on July 3rd. Ramsey Pyrotechnics, Inc., Frankfort, IN, conducted the show at a cost of \$6,700.00. Donations and contributions collected for the event totaled \$5,801.67.

11. SHORELINE PROJECT PERMITS:

Eighteen (18) permits were issued to lake freeholders in 2007. These projects dealt primarily with shoreline erosion control, sea wall construction, and minor dredging. Since 1996, 234 shoreline permits have been issued to Conservancy freeholders.

12. LLCDC ENVIRONMENTAL COMMITTEE:

The committee completed its work with the Monroe County Planning Department in developing an environmental overlay zone for the reservoir. The plan was submitted to the City of Bloomington for review. Final determination on this initiative should be resolved in 2008.

13. LLCD FINANCIAL STUDY GROUP:

The Study Group began working on establishing an endowment fund for the conservancy district. Work on this initiative should be completed in 2008.

14. LLCD SEDIMENTATION REMOVAL PROGRAM:

- A. The District completed its second year of the sedimentation removal program, which began in 2006. The District renewed its contract with Payne Excavation, Bloomington, to complete the work.
- B. Priority Areas dredged in 2007 included the west side of Point Ida Lawn and Ice Box Cove, both of which were dredged to provide dock and boat channel access. Individual Areas were also dredged at owner's expense. Total sediment removed in 2007 was 13,840 cubic yards.
- C. The sediment disposal site and truck crossing on Spillway Road has worked well. The District will continue to look for a second disposal site on the east end of the reservoir.
- D. The budget for 2008 dredging is \$150,000. **(Please see enclosed summary of 2007 Sedimentation Removal Program.)**

15. 2008 GOALS:

- I. Apply for and hopefully obtain a \$35,000 Grant from IDNR Lake and River (LARE) Program for treatment of exotic nuisance vegetation in the reservoir.
- II. Continue the on-going investigation of obtaining a sedimentation disposal site on the east end of the reservoir.
- III. Continue the on-going process of establishing an environmental constraints overlay zone for Lake Lemon.
- IV. Continue the on-going process of funding and completing a dam emergency action plan.
- V. Repair fireplaces/chimneys in the Riddle Point Park shelter house.
- VI. Install security fence around dam stilling basin.
- VII. Complete 2008 dam/spillway inspection
- VIII. Begin the process of studying sanitary water treatment around the reservoir.
- IX. Initiate discussions with the Monroe/Brown County Highway Departments and the Indiana Department of Transportation (INDOT) on preparing a Safety Study of the Long Causeway on South Shore Drive.