

To: Lake Lemon Conservancy District Board of Directors and Freeholders
From: Bob Madden, Manager
Subject: 2006 Annual Report
Date: February 7, 2007

This report is a summary of the most significant operational events and administrative accomplishments LLCD addressed in 2006.

1. BOARD OF DIRECTORS:

Two (2) LLCD Board positions were filled in 2006. Barb Ritter was elected to a four (4) year term in District II and Rex Taylor, District VI was re-elected to a four (4) year term. Both terms will expire in 2010. Board officers for 2006 were Marty Mann, Chairman; Dave Hobson, Vice-Chairman; and Dennis Friesel, Treasurer.

2. PERSONNEL:

- A.** Seasonal staff for 2006 included Collin Whitesell and Nate Harrison, Lake Patrol Officers; Evan Buckmaster and Josh Morrow, Gate Attendants; Aunna Huber, Lake Biologist; Ed Schoff, Maintenance Technician; and Paul Kehrberg, Grounds Keeper/Gate Attendant.
- B.** Outgoing District II Director, Larry Ritter, was recognized and honored for his 10 years of hard work and dedication as a founding Board Member and first Chairman of the LLCD Board of Directors.

3. GATE HOUSE OPERATIONS:

The 2006 boating season started on Saturday, March 18th, and ended on Sunday, November 26th.

4. 2006 LAKE PATROL OPERATIONS:

- A.** Started on Saturday, May 20th and concluded on Sunday, September 17th. There were no boating accidents reported to LLCD Lake Patrol or IDNR Law Enforcement in 2006.
- B.** IDNR Law Enforcement had a visible presence on the reservoir in 2006. Thirteen (13) arrest tickets and seven (7) warning tickets were issued.

5. 2006 AQUATIC PLANT MANAGEMENT:

On May 18th, Aquatic Control, Inc. treated 40.5 acres of Eurasian water milfoil and 5.0 acres of curly leaf and small leaf pondweeds around docks and in boating lanes. On Monday, June 5th, an additional 6.0 acres of native vegetation were treated, and 3.0 acres were retreated. Seven acres of milfoil were treated, and 5.25 acres were retreated. On Friday, June 9th, 2.0 acres of milfoil, 2.0 acres of spatterdock, and 4 acres of natives were also treated. A quarter-acre of milfoil was also re-treated. On June 29th, Aquatic Control, Inc. treated 3.0 acres of native species and retreated areas in Chitwood for spatterdock. One spot treatment of milfoil was also treated. On July 28th, Aquatic Control, Inc. returned to treat 24.5 acres of lotus. On July 31st, Aquatic Control, Inc treated 12.5 acres of native vegetation and 5.5 acres of milfoil. On August 8th, Aquatic Control, Inc. spot treated areas of lotus on the east end. They also treated 21.6 acres of submersed vegetation including brittle naiad, small leaf, sago, and curly leaf pondweeds, coontail, and milfoil. An additional 10.5 acres of milfoil was retreated. On August 29th, Aquatic Control, Inc. returned to re-treat approximately 1 acre of submersed vegetation in the short causeway area and an additional 2 acres of submersed vegetation off of Pt. Idalawn. Total expense for 2006 weed treatments was \$57,610.56, including a \$25,200.00 grant from IDNR's Lake and River Enhancement Program (LARE).

6. 2006 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 2006, 13 Secchi disk samples were taken, with an average depth of 4.0 feet.

7. 2006 WILDLIFE CONTROL:

A permit from the Indiana Department of Natural Resources (IDNR) issued in March allowed the LLCD to shake the eggs from twenty (20) Canada goose nests to prevent them from hatching. A total of 61 eggs were treated. All nests affected were located on the Cemetery Islands in the western end of the lake. While some freeholders consider the Canada goose to be a nuisance, the species is federally protected and may only be controlled through state permits and regulated hunting. On Wednesday, June 21st the Indiana Department of Natural Resources, Division of Fish and Wildlife, and the U. S. Department of Agriculture came out to Lake Lemon to trap, band, and release Canada geese. A total of 39 geese were trapped and 34 were banded. Five were too small to band. The purpose of this exercise was to determine the migratory status of the geese. This information will be used in the future to take more drastic measures against resident goose populations. The U. S. Department of Agriculture was present to test the birds for diseases in which none were reported.

8. GRANTS:

- A.** In March 2006, the LLCD received a \$100,000.00 grant from the IDNR LARE Program to remove sedimentation from the reservoir. These funds will be used in 2007 to help continue the sedimentation removal initiative at Lake Lemon. This is the second \$100,000 sedimentation removal grant the District has received in the past two years.
- B.** In April 2006, the LLCD received a \$25,200.00 grant from the IDNR LARE Program to chemically treat exotic/nuisance plants in the reservoir during 2006.
- C.** In December 2006, the LLCD received \$4,000.00 in cost-share funds from the City of Bloomington Utilities (CBU) to conduct a comprehensive interior and exterior inspection of the dam, sluice gate, and spillway. All structures received a satisfactory rating.

9. 2006 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 2006 results are expected in May 2007 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. RIDDELE POINT PARK:

- A.** The park opened on Saturday, May 27th. Park admissions were charged daily thru Monday, September 4th. The annual vehicle pass was \$50.00; daily vehicle pass was \$4.00. Total park admissions collected were \$18,108.00.
- B.** The Riddle Point Park shelter was rented 15 times. The shelter rental fee was \$100.00/day. Total shelter rental fees collected were \$1,500.00.
- C.** The LLCD Board hosted the July 2nd Fireworks Show at Riddle Point Park. The show was conducted by Ramsey Pyrotechnics, Inc., Frankfort, IN, at a cost of \$6,700.00. Donations and contributions collected for the event totaled \$6,186.48.

11. SHORELINE PROJECT PERMITS:

Sixteen (16) permits were issued to lake freeholders in 2006. These projects dealt primarily with shoreline erosion control, sea wall construction, and minor dredging. Since 1996, 216 shoreline permits have been issued to Conservancy freeholders.

12. HIGHWAY SAFETY:

In 2006, the LLCD, working in cooperation with the Monroe County Highway Department, was successful in getting a new culvert installed at the long causeway on South Shore Drive to help with drainage and flooding. Additionally, the Highway Department placed riprap in a half dozen locations along the causeway that were eroding.

13. LLCD 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 2007.

14. LLCD SEDIMENTATION REMOVAL PROGRAM:

- A. After four (4) years of planning the District implemented its sedimentation removal program in 2006. The District hired Payne Excavating, Bloomington, to complete the work.
- B. From all indications the project met its goals in 2006. The boating/ski area on the west end of the reservoir was made safer/deepened, and a large area of the boating channel by Little Africa was dredged. While the entire channel was not completed, enough material was removed to make it navigable. Total sediment removed in 2006 was 9,780 cubic yards.
- C. The sediment disposal site and truck crossing on Spillway Road was built and worked extremely well. The District will continue to look for a second disposal site on the east end of the reservoir and apply for a third \$100,000 IDNR grant in 2007.
- D. The budget for next year's dredging is approximately \$160,000. (**Please see enclosed summary of 2006 Sedimentation Removal Expenses.**)
- E. The LLCD Board at its December 2006 meeting approved a motion to dredge the shallowest areas of service zones 131 and 134 (east and west shorelines of Pt. Idalawn) and service zone 110 (Ice Box Cove) in 2007.

15. LOCAL ORDINANCE STUDY GROUP:

In May 2006, the Mayor of Bloomington approved ordinances effecting the operation and management of Lake Lemon. The revised ordinances acknowledge the stewardship of the reservoir by the Conservancy District and brought ordinances up to date to properly reflect current management practices.

16. STATUS OF 2006 GOALS AND GOALS FOR 2007:

Attached.