Algae Control Project Becomes Case Study for ACSP Certification

By Jonathan Charpinsky

ACSP CASE STUDY

Project Title: No. 9 Pond Algae Removal
Property Name: Card Sound Golf Club
Location: Key Largo, Florida
Project Coordinator: Jonathan Charpinsky, Assistant Superintendent
Phone Number: 305-367-3088
Type of Course: Private Golf Club

Project Description: Give an overview of the project. Why did you choose it? What were the conditions like before and after implementing the project?

The ponds at Card Sound Golf Club are saltwater and fluctuate with the ocean tides. The pond on No. 9 always had a large amount of algae throughout the entire pond and it looked terrible. Dephosphate water clarifiers and bacterial concentrates were applied to the pond on a monthly basis and it was very expensive. They seemed to have very little effect on the algae and we needed a better, cheaper way to handle this situation.

My superintendent heard of a BioAmp machine from ECO Bionics that produced trillions of bacterial cells on a daily basis. We decided to rent a machine and install it on the pond bank and have the bacteria drain into the pond every day. Since installing the BioAmp, there has been a large decline in the amount of algae (a very small amount is still present). The pond is much cleaner and we are not spending as much money on removing algae.

Goals: Please list your goals for the project.
Remove algae in pond located on No. 9.
Reduce cost of maintenance for No. 9 pond.

Implementation and Maintenance: What specific steps did you take to implement it? What kind of ongoing maintenance will it require?
Rented machine from ECO Bionics.
Installed it on the bank of the pond (out of the way of play).
Hooked up electricity and a fresh water source to machine.
Hooked up a drain for the bacteria that goes into the pond.
Filled it with food for the microorganisms to develop.

Results: Describe the results you achieved. What are the environmental benefits? Please be as specific as possible about any tangible results.
Far less algae is currently present in the pond and it doesn’t seem to come back as it did when we were not using the BioAmp machine.
Considerably less money is being spent on controlling the algae. Less labor is used for algae removal. All we do now is check the machine for alarms or lack of food.

Fill machine once every month with food.
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Perspective and Recommendations: What, if any-thing, would you do differently if you were to do this project again? What would you recommend to others implementing this project?
I would not have changed anything with this project due to the results we have achieved. My recommendation to others is to give this a try instead of using chemicals to clear up an algae problem. This is obviously better for the environment, less costly, and almost no maintenance is needed after installing the machine.

Economic Costs and Benefits: How much did it cost to implement this project?
Lease of machine: $537.50/month
Installation of machine: $810.00
Total: $1347.50
Average cost in our old methods: $2000.00/month
Monthly maintenance and feeding now: $537.50
Average Savings: $1462.50/month

Jonathan Charpinsky, is assistant superintendent, Card Sound Golf Club

Florida Sustainable Communities Summit Explores Resource Efficiency in the Built Environment

By Jean Mackay

Audubon International and the University of Florida’s Program for Resource Efficient Communities co-hosted the Florida Sustainable Communities Summit at Walt Disney World Feb. 8 During the Golf Industry Show in Orlando. The event brought together a variety of stakeholders — including more than 100 municipal planners, developers, architects, builders, natural resource managers, and representatives from regulatory agencies, universities, and conservation organizations — to strengthen efforts to foster sustainable development in Florida.

The day-long summit provided opportunities to discuss critical issues associated with sustainable community siting, design, development, and management. Four panel discussions also showcased a number of success stories, including golf courses that are helping to meet community conservation and development goals.

“Florida’s explosive growth is putting pressure not only on the environment, but on community services, such as transportation, schools, and affordable housing,” says Kevin Fletcher, Audubon International director of programs and administration. “The summit gave us the opportunity to network with each other and explore ways to build upon successful efforts to build better in Florida.”

The summit was held at Walt Disney World’s Osprey Ridge and Eagle Pines Golf Courses, who generously donated meeting space.
Photographs of wildlife and natural areas on the golf courses taken by superintendent Bob Karnes graced the walls and provided the perfect backdrop for the meeting. All five of Disney’s golf courses are Certified Audubon Cooperative Sanctuaries. The event was generously sponsored by WCI Communities, Inc. and Harmony Homes (Birchwood Acres, LLC), with additional support from the Bonita Bay Group and The Old Collier Golf Club.

For more information or to request summit proceedings, contact Jean Mackay at Audubon International at jmackay@audubonintl.org.

**Background on Florida’s Growth**

From 1990-2000 Florida’s population grew by 23.5 percent with an increase of three million people. Approximately 6,000 people move to Florida each week. Now number four in population among the 50 states, Florida is poised to pass New York for the number-three spot by 2024, behind only California and Texas.

Residential construction is a primary driver of Florida’s economy. Over the last decade, approximately 100,000 new single-family, detached homes have been built each year in Florida. Most of Florida’s larger new residential developments are master planned communities that begin with basic land-use planning activities and end with homes constructed on finished lots. In addition, these communities frequently involve the design and construction of major amenities, such as golf courses and other shared open spaces.

Issues including declining water supplies, increasing energy demands, traffic congestion, overcrowded schools, and the loss of natural areas are intimately tied to Florida’s growth.

Such pressing concerns make Florida an excellent target for introducing sustainability as an integrated approach to addressing the state’s environmental, economic, and social needs.

*(Sources: U.S. Census Bureau, 2000 Census; State of Florida.com, Florida Quick Facts, 2-1-05; University of Florida, Program for Resource Efficient Communities, 2005)*

**Florida Mottled Duck Population at Risk from Domestic Mallards:**

Good intentions can lead to extinction of native subspecies

*By Kim Jamerson*

If it walks like a duck and quacks like a duck, then it must be a duck. That may be a catchy phrase, but it doesn’t represent the diversity that exists in nature. In fact, this adage is giving Florida Fish and Wildlife Conservation Commission (FWC)