

**CITY OF WINTER PARK
LAKES AND WATERWAYS ADVISORY BOARD**

Regular Meeting
Winter Park Country Club
761 Old England Ave.

August 20, 2014
12:00 pm

MINUTES

Present: Chair Todd Weaver, Jim Barnes, Nora Miller, David Moorhead, Amy Byrd and Geoff Bedine

Absent: Thomas Smith and Marty Sullivan

City of Winter Park Staff: Troy Attaway, Public Works Director, Don Marcotte, Stormwater Eng/Asst PW Director; Tim Egan, Environmental Resource Mgr; Debbie Wilkerson Recording Secretary

Guests: Marissa Williams, City of Maitland

CALL TO ORDER. Chair Weaver called the Lakes and Waterways Advisory Board to order at 12:04 pm.

Citizen comments: None

administration

Approval of Minutes

Chm Weaver asked for approval of the minutes from the July 16, 2014. Motion made by Mr. Barnes to approve the July 16, 2014, minutes as presented, seconded by Ms. Miller. Motion carried unanimously (7-0)

new business

New Ideas

Ms. Miller introduced for discussion using lake water for irrigation to reduce impacts to the aquifer. Mr. Egan responded that approximately 50% of lake front owners use the lake water for irrigation. Discussion ensued regarding City's water dept. encouraging residents to use non-potable water for irrigation, educating residents on the benefits, economic benefits, what can the Lakes Board do to motivate residents to use non potable water for irrigation, and assistance Communications could provide to educate residents. Mr. Egan provided information on fertilizing restrictions in Orange County.

Mr. Bedine suggested installing an information box/sign in a public area to provide education to people regarding lakes, stormwater, and local wildlife. Mr. Marcotte commented that funds were available. Staff will work on developing a plan and report back to the Board.

Mr. Weaver requested staff input regarding impact to stromwater/lakes of the increased density proposed. Staff provided information regarding impacts.

action items

Boat Tour – Winter Park Lakes

Mr. Weaver reminded the Board that the Chain of Lakes Boat Tour is scheduled for August 21, 2014, at 6:00 leaving from the Scenic Boat Tour dock.

Communications

Ms. Howard reviewed her department composition and the communication tools she uses to provide information to residents including newsletters, website, outside publications, utility billing inserts, print and social media. She asked the Board to provide input on issues they would like to see included.

Shoreline Permit Applications

14-08 - Dock for Winter Park Towers, 1111 Lakemont Ave. on Lake Berry.

Mr. Egan explained that all criteria meet code. Staff is recommending approval. Mr. Egan responded to questions.

Motion made by Mr. Barnes to approve the permit as recommended by staff, Dr. Moorhead seconded. Motion carried unanimously. (7-0)

reports

Mead Botanical Garden

None

Lakes Patrol – WP Police

Ofc Dawkins updated the Board on lakes patrol activities. He also commented that the compliance level on the lakes from a safety standpoint is very good.

Stormwater Management –Don Marcotte

Mr. Marcotte presented the following updates:

- Staff is reviewing a draft of the new NPDES permit. The new permit contains more stringent requirements than the old one which is a benefit to lake quality.
- Upgrades to the Rollins and Webster alum stations are complete.
- Staff is preparing a new bid package for Howard Drive Pond Project.
- Design is 90 % complete for Forrest Rd and Glencoe Rd drainage improvements. This project will also include a stormwater treatment device for the east side of Lk. Sue.
- We are going to start survey and design for a new project on the horizon for a neighborhood off of Howell Branch Rd. The neighborhood is bordered by Madeline Ave and N. Lakemont. The neighborhood relies on drainage ditches for conveyance and a drain well for the ultimate outfall. This is not good. Project will likely be ready for 2016 CIP projects
- Mr. Attaway mentioned a field tour of the City's stormwater facilities after the weather cools off.

Lakes Report – Tim Egan

Mr. Egan provided the following summary on the algae bloom in Lk Osceola:

Summary

Beginning in October of 2011, water clarity in Lake Osceola decreased by approximately 40 percent (compared to the previous seven years). During the same period chlorophyll a, turbidity, nitrogen and phosphorus levels, typically factors that have a direct impact on water clarity, have remained relatively low. An investigation was conducted that consisted of analyzing existing data from Winter Park's water quality data base for trends and correlations, the collection and analysis of field samples to determine the dominant species of algae in the lake and a search of scientific literature related to the relationship between chlorophyll a concentrations and Secchi disk values, visible algal pigments other than chlorophyll, the

*ecology of cyanobacteria (particularly *Cylindrospermopsis raciborskii*) and potential strategies for controlling *C. raciborskii*.*

*Data analysis found that Secchi disk transparency has fallen slightly for the range of chlorophyll a concentrations that have been observed when compared to data from previous years, but the values are still within typical ranges reported in the available literature. The statistical correlation between the two parameters over time has not changed significantly. Analysis of water samples found the cyanobacteria *Cylindrospermopsis* sp. to be the dominant algae in the lake. Cyanobacteria, formerly called blue-green algae, are primitive, photosynthetic organisms that frequently make up a significant percentage of the phytoplankton community in eutrophic lakes. *C. raciborskii*, historically considered a tropical species, has been spreading rapidly into subtropical and temperate regions worldwide. This organism is able to fix atmospheric nitrogen and is an aggressive competitor for available phosphorus. *C. raciborskii* is also capable of producing large amounts of carotenoid pigments (up to 77 times that of chlorophyll). These high levels of pigments could be responsible for the reduced water clarity that has been observed in Lake Osceola.*

*Efforts to control *C. raciborskii* on a large scale have included water column mixing and manipulation of the N:P ratio through fertilization. In all cases found, these strategies have failed to reduce the populations of this cyanobacteria, and in some cases, actually stimulated earlier blooms and increased the length of time that the blooms persisted.*

City of Maitland – Marissa Williams

Ms. Williams reported the following:

- Performed small spot treatments for hydrilla on Lk. Jackson. This lake is rebounding after over stocking with grass carp in the eighties.
- The Ft. Maitland police boathouse should be complete by the end of next week. Still needs electrical connections for the boat lift.
- Beginning construction on Dommerick Dr., baffle box project the second week in September.
- A baffle box on Adams Dr., on the north shore of Lk Maitland, has been installed and is functioning.
- Maitland is discussing the best way to proceed with Grove St. project which doesn't have any water, sewer or stormwater easements. This will delay the baffle box installation.

adjourn

Meeting adjourned at 12:40 p.m. Next meeting date September 17, 2014.

Respectfully submitted,

Debbie Wilkerson

Debbie Wilkerson
Recording Secretary

Approved 9/17/14