

**MEETING AGENDA
BUTLER CHAIN OF LAKES ADVISORY BOARD
(WINDERMERE WATER AND NAVIGATION CONTROL DISTRICT)**

Monday, July 14, 2014. 6:00 - 8:00 P.M.
Town of Windermere Library
530 Main Street, Windermere, Florida 34786

- I. Agenda
- II. Call Meeting to Order
- III. Approval of the Monday June 23, 2014 Meeting Minutes
- IV. Public Comment on Propositions Before the Advisory Board (Please complete Speaker's Form)
- V. Butler Patrol Report
 1. Renewal of Butler Patrol Services for Period: October 2014 - September 2015
- VI. EPD Report
 1. Proposal for Guided Boat Tours at the Butler Chain (Rodger Fielding)
 2. Pilot / Partnership Project for the use of Beneficial Bacteria at the Sandy Shores Canal.
 3. Proposal: Mechanical Harvesting of Cattails at Lake William Davis
 4. Update on the Lake Down Sub-basin 9 Projects
- VII. New Business
- VIII. Old Business
 1. Summary: Special Meeting with SFWMD on Wetland Between Lake Butler and Cypress
- IX. Non - Agenda Items
- X. Scheduling of the Next Meeting on Monday, August 18, 2014
- XI. Meeting adjourned

Section 286.0105, Florida Statutes states that if a person decides to appeal any decision made by a board, agency, or commission with respect to any matter considered at a meeting or hearing, he or she will need a record of the proceedings, and that, for such purpose, he may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

In accordance with the Americans with Disabilities Act (ADA), if any person with a disability as defined by the ADA needs special accommodation to participate in this proceeding, then not later than two business days prior to the proceeding, he or she should contact the Orange County Communications Division at (407) 836-5631.

Para mayor información en español, por favor llame al (407) 836-5631.

**Butler Chain of Lakes Advisory Board
Windermere Water and Navigation Control District (WWNCD)
Regular Meeting
Orange County - Windermere Library
June 23, 2014**

Board Members Present: Cheryl Miller (Chair), Jason Fulmer (Vice Chairperson), Ann Connolly, Robert Binkley and Ijaz Ahmed

Board Members Absent: none

Staff & Guests: Sergio Duarte, Orange County Environmental Protection Division (EPD)
Lt. Jeff Hudson, Butler Patrol

Residents: Peter Kalogridis, Molly Rose, Lori Bradford, Thellie Roper, Albert Gallof,
Dave Brash, Ryan and Jeff Rodgers

I. Call to Order:

With a quorum present, Cheryl Miller called the meeting of the Butler Chain of Lakes Advisory Board (BCLAB) to order at 6:02 p.m.

II. Approval of the May 19, 2014 Meeting Minutes:

Upon a motion by Ann Connolly, seconded by Ijaz Ahmed; and carried with all present members voting AYE by voice vote; the Advisory Board approved the May 19, 2014 meeting minutes as presented.

III. Public Comment on Propositions Before the Advisory Board: None

IV. Butler Marine Patrol Report:

Lt. Hudson presented the following report for May 2014:

Total Patrol Hours	134
Uniform Boating Citations	7
Warnings Issued	41
Vessels inspected	124
Disabled Vessels Assisted	3

V. EPD Report:

1) Use of Beneficial Bacteria for Muck Reduction (Peter Kalogridis Presentation):

Peter Kalogridis discussed his positive experience with the use of beneficial bacteria (purple sulfur bacteria) for muck oxidation and nutrient reduction at Lake Brenda (aka. Lake Hour-Glass) at the Isleworth Golf Country Club.

Peter Kalogridis presented the following facts on the use of beneficial bacteria:

- The bacterial groups that function to purify water are classified as Purple Non Sulfur Bacteria (PB) and Purple Sulfur Bacteria (PSB). As PB has now been shown to assimilate sulfides, both bacterial groups are identified as PSB.
- Purple Sulfur Bacteria (PSB) are commercially available as a shelf stable inoculum containing a consortium of 22 species of vegetative and spore forming bacteria which include viable PSB from an EPA/FDA registered laboratory manufacturing facility located in Florida.

- FDA/EPA designation listed PSB as “Generally Regarded As Safe” (GRAS).
- PSB are native, natural & already exist in water bodies.
- PSB are 100% nontoxic, nonpathogenic and safe for people & pets.
- PSB were developed for the aquarium trade.
- PSB are approved by the Florida Department of Health for commercial use.
- USDA has approved PSB and determined that they are safe for use in food manufacturing facilities. USDA approved PSB for retail consumer sales in all fifty states

Peter Kalogridis stated that PSB were used successfully at Lake Brenda to “biological dredge” bottom solids, and as a way to offset the large amount of nutrients (nitrogen and phosphorous) coming from the use of reclaimed water for supplemental irrigation at the golf course.

- 2) **Pilot / Partnership Project for the Use of Beneficial Bacteria for Muck Reduction at the Sandy Shores Canal (Lake Butler):** Albert Gallof and Dave Brash discussed the problems with the accumulation of organic material at the mouth of the Sandy Shores Canal (Lake Butler) as well as the issues with the concrete debris that was left after the removal of the old bridge by the Waterstone developer. Mr. Gallof presented pictures of the concrete material that the residents were able to pull out during a canal cleaning conducted by the residents.

Mr. Duarte presented a proposal from SoilTweakers LLC. in the amount of \$12,312 for the use of beneficial bacteria for muck oxidation at the Sandy Shores Canal. Mr. Duarte stated that the Sandy Shores residents are interested in a partnership project with the WWNCD to restore the mouth of the canal / regain the water depth for boating access to the Butler Chain of Lakes.

A discussion ensued about the use of beneficial bacteria at the Sandy Shores Canal.

Lori Bradford stated that she is concerned of any potential byproducts or an increase in nutrients that could occur, especially since Lake Butler is an Outstanding Florida Water.

Peter Kalogridis stated that the PSB actually reduce the nutrients and that the bacteria byproducts are mostly carbon dioxide, sugars and carbohydrates that can be used by micro invertebrates at the lake without harming the ecosystem.

Mr. Duarte stated that the evidence that the PSB reduce the nutrients is that the bacteria suppress the algae blooms by restricting the nutrients that the algae need to grow in the lakes. Mr. Duarte stated that the use of beneficial bacteria is being proposed for an area of the Sandy Shores Canal that will be isolated with floating turbidity barriers. Mr. Duarte stated that the PSB are already present in all the lakes, and that the PSB are a natural alternative to the use of herbicides for algae control and a potential way to biologically reduce organic loads in the canals.

The Advisory Board tabled the discussion on the use of PSB and requested additional information (i.e. manufacturer's product label, safety sheets, white papers, and other lakes in Florida where this bacteria has been used etc.) for evaluation at the next Advisory Board meeting in July 2014.

- 3) **Orange County “ Notification Process” for Lake Herbicide Treatments:** Mr. Duarte stated that EPD has been meeting and exceeding the Florida Fish and Wildlife Conservation Commission (FWC) regulations (68F-20.0055) on “Aquatic Herbicide Notification Requirements”.

Mr. Duarte stated that the state Aquatic Herbicide Notifications include:

- The posting of signs at access points
- The publication of notice in a local newspaper in the affected area
- The placement of notices at the management site
- The establishment of a signal or marker system
- Giving notice at established point of contact

Mr. Duarte stated that the “EPD’s Aquatic Herbicide Notification” process includes the additional steps:

For Whole Lake Herbicide Treatments:

- Posting of all public boat ramps at the lake being treated
- Press release in collaboration with FWC
- Mailing of post cards to all lakefront parcels stating the herbicide water use restrictions

For Partial or Spot Lake Herbicide Treatments:

- Posting of Nearby Docks/Boathouses

Lt. Hudson stated that FWC has a web page/web link where the residents can register to receive alerts or notification via an e-mail or a text on particular issues.

Mr. Duarte stated that Orange County could explore using the 311 call center to register the residents and generate alerts via a phone call and perhaps an e-mail.

Discussion ensued over the need to improve the herbicide notification process at the Butler Chain, the limitations of an alert received via a phone message, and the need to display the herbicide target areas in a map in a web page.

The Advisory Board made the following recommendation for the herbicide notifications:

Upon a motion by Ijaz Ahmed, seconded by Jason Fulmer and carried with all present members voting AYE by voice vote; the Advisory Board recommended to explore the creation of a web page for the Butler Chain, where lake front residents could register to receive notification via e-mail / view maps of the treatment areas.

- 4) **Update on the Lake Down Sub-basin 9 Project:** Mr. Duarte stated that the shoreline plantings for both ponds (the Willow Wood and the Orange County ponds) will be completed in July 2014. Mr. Duarte stated that Suntree Technologies Inc. is already manufacturing the 23 catch basin inserts (filter baskets) for the Willow Wood Pond; and that the installations will be completed at the end of August 2014 to meet the deadline of the South Florida Water Management District grant.

VI. New Business: none

VII. Old Business:

- 1) **Report on Special Meeting with SFWMD on the Conservation Areas Between Lake Butler & Cypress:** Mr. Duarte handed out a draft summary of the special meeting conducted with the South Florida Water Management District, Orange County EPD, Florida Fish and Wildlife Conservation Commission, etc. on May 7, 2014. The Advisory Board tabled the review of the “special meeting summary” until the next meeting in July 2014.

- 2) **Stormwater Ponds for the Cascades Shoppes at the Four Corners at Apopka-Vineland and Conroy Windermere:** Ann Connolly stated that she is concerned with the stormwater runoff from the 300,000 square feet of commercial development at the Grove/Cascades at Isleworth, and that she believes that the two existing ponds located north of the existing County Conroy-Windermere Road are insufficient to treat the stormwater discharges. Mr. Duarte stated that the stormwater calculations for those two ponds were reviewed and permitted by Orange County Public Works (as discussed at the past Advisory Board meeting on March 24, 2014). Chair Miller suggested that Mrs. Connolly contact Orange County Public Works to discuss her concerns with the existing stormwater ponds.

VIII. Non-Agenda Items/Public Comment: none

IX. Meeting Schedule:

Upon a motion by Jason Fulmer, seconded by Ijaz Ahmed and carried with all present members voting AYE by voice; the Advisory Board approved the next regular meeting for Monday, July 14 or 28, 2014, pending the availability of a meeting room at the Windermere Library.

X. Meeting Adjournment: The meeting adjourned at 8:42 p.m.

Cheryl Miller, Chairman

Date

Sergio Duarte, Minute Preparer

Date