

**PELICAN BAY SERVICES DIVISION  
WATER MANAGEMENT COMMITTEE MEETING  
JANUARY 26, 2017**

The Water Management Committee of the Pelican Bay Services Division met on Thursday, January 26 at 2:00 p.m. at the SunTrust Bank Building, 801 Laurel Oak Drive, Suite 302, Naples, Florida 34108. The following members attended.

**Water Management Committee**  
Tom Cravens, Chairman

Scott Streckenbein  
Dave Trecker

**Pelican Bay Services Division Staff**  
Neil Dorrill, Administrator (*absent*)  
Marion Bolick, Operations Manager

Mary McCaughtry, Operations Analyst (*absent*)  
Lisa Jacob, Associate Project Manager  
Barbara Shea, Recording Secretary

**Also Present**  
Tom Barber, Agnoli, Barber & Brundage  
Jim Carr, Agnoli, Barber & Brundage

Susan O'Brien, PBSB Board  
Mike Shepherd, PBSB Board

**APPROVED AGENDA (AS AMENDED)**

1. Pledge of Allegiance
2. Roll call
3. Agenda approval
4. Approval of 11/18/16 meeting minutes
5. Audience comments
6. North berm restoration
7. Replacement of bahia sod at north end of the berm
8. Problems with existing solar powered aerators
9. 2017 aerator installation
10. Trial lakes report – what's working/not working
11. Status of "microfloc" testing
12. Proposal for dealing with lake bank erosion
13. Input from Collier County Presidents Council  
    A. New Business (*add-on*)
14. Adjournment

**ROLL CALL**

All members were present and a quorum was established

**AGENDA APPROVAL**

**Mr. Streckenbein motioned, Dr. Trecker seconded to approve the agenda as amended with the addition of item #13A, and with agenda item #12 to be discussed after agenda item #7. The motion carried unanimously.**

**APPROVAL OF 11/18/16 MEETING MINUTES**

**Mr. Streckenbein motioned, Dr. Trecker seconded to approve the 11/18/16 meeting minutes as presented. The motion carried unanimously.**

**AUDIENCE COMMENTS**

Mr. John Hughes, President of the Avalon Community Association, requested that the PBSB install blue tilapia in Avalon's lake, instead of aerators. He commented on his community's opposition to the noise generated by an aerator.

Ms. Ellie Tracy, Avalon board member, commented on the lack of littoral plantings in the Avalon lake and the severe erosion of the lake bank which has resulted in extensive irrigation pipe repairs.

Ms. Anne Georger-Harris commented on the high density of residences in Avalon and her opposition to the installation of any noise-generating aerators.

Dr. Trecker commented that he cannot support adding blue tilapia to an additional lake. Numerous consultants and other communities have concluded that negative consequences from blue tilapia include (1) any beneficial results from blue tilapia are transient, (2) blue tilapia will eat the lake's littoral plants, and (3) negative consequences of ammonia-rich fecal matter generated by the blue tilapia.

The committee and staff agreed to put the Avalon lake aerator installation on hold and expedite littoral plantings in this lake.

**NORTH BERM RESTORATION & REPLACEMENT OF BAHIA SOD PROJECTS**

Dr. Trecker recapped two projects under consideration for a total of \$86,000: (1) east side erosion of the north berm from the north tram station to the Montenero for \$41,000 and (2) addition of riprap on the west side of the north berm from the Commons to the north tram station for \$45,000. Our Agnoli, Barber, & Brundage consultant, Mr. Jim Carr commented that the first project is a structural issue, is not an emergency, and could wait another year; the second project may be completed for aesthetic reasons. By consensus, the committee agreed that the first project should be built into the FY18 budget and the second project should be part of a master priority list of lake bank projects.

**PROBLEMS WITH EXISTING SOLAR POWERED AERATORS**

Mr. Cravens commented on staff's recorded observations of eight solar powered aerators on nine days, as provided in the agenda packet, which shows that five of these eight aerators are not functioning continuously, as designed. Mr. Bolick commented that technicians are still trouble-shooting these malfunctioning devices. The aerators have a two-year warranty on parts, one year on labor. At the recommendation of the committee, Mr. Bolick will provide an update on our aerators to the full board on Feb. 1.

**MR. STRECKENBEIN LEFT THE MEETING AT 3:12 PM**

**2017 AERATOR INSTALLATION**

By consensus, the committee agreed that no new aerators should be installed in 2017 until all of the existing aerators are functioning properly.

**TRIAL LAKES REPORT**

Dr. Trecker commented on his observations of the four bacteria test lakes. He commented that three out of the four test lakes appear pristine and algae free. Bacteria may not be working as well in the St. Maarten/Commons lake as this lake has no aerators.

**STATUS OF "MICROFLOC" TESTING**

Ms. Jacob reported that she has a February conference call set up with Mr. Raphael Vazquez-Burney of CH2M Hill to discuss the logistics of the microfloc testing. Mr. Bolick reported that the Club Clubhouse lake and the Naples Grande front lake have been selected for this testing.

**PROPOSAL FOR DEALING WITH LAKE BANK EROSION**

Mr. Tom Barber, our Agnoli, Barber & Brundage consultant, summarized his \$37,200 proposal to provide a master priority list of lake bank erosion projects. Ms. Jacob strongly recommended this project. Mr. Bolick commented that \$130,000 is currently available in the PBSB budget for lake bank erosion projects.

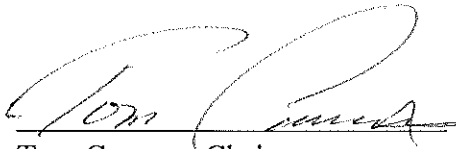
Dr. Trecker motioned, Mr. Streckenbein seconded to recommend to the full board to do the \$37,000 study by Agnoli, Barber, & Brundage. After discussion by the committee, Dr. Trecker withdrew his motion, and Mr. Streckenbein withdrew his second. By consensus, the committee agreed that Mr. Tom Barber would make a presentation to the full board on Feb. 1 regarding a proposal for a study of lake bank erosion to include 45 lakes and the berm erosion, resulting in a priority list of repair projects.

**INPUT FROM COLLIER COUNTY PRESIDENTS COUNCIL**

Dr. Trecker commented on the Collier County Presidents Council he attended with Ms. Jacob where attendees discussed their communities' successes with various lake algae control methods. He commented that some communities have experienced significant success with bacteria. Mr. Bolick commented that it is difficult to quantify the effectiveness of bacteria in PB test lakes since these lakes are also subject to chemical spraying. He commented that bacteria cost per lake is approximately \$600 annually.

**ADJOURNMENT**

**The meeting was adjourned at 3:43 p.m.**

  
Tom Cravens, Chairman

Minutes approved  as presented OR  as amended ON  
 4-21-17  date