

**PELICAN BAY SERVICES DIVISION**  
**Municipal Services Taxing & Benefit Unit**

**NOTICE OF PUBLIC MEETING**

**APRIL 16, 2018**

**THE WATER MANAGEMENT COMMITTEE OF THE PELICAN BAY SERVICES DIVISION WILL MEET AT 3:00 PM ON MONDAY, APRIL 16 AT THE COMMUNITY CENTER AT PELICAN BAY, LOCATED AT 8960 HAMMOCK OAK DRIVE, NAPLES, FL 34108.**

**AGENDA**

1. Pledge of Allegiance
2. Roll call
3. Agenda approval
4. Approval of 02/26/18 meeting minutes
5. Audience comments
6. Drainage obstruction on east and west sides of Water Management Berm
7. Water quality data collection, reporting, and estimated costs
8. Other business
9. Adjournment

ANY PERSON WISHING TO SPEAK ON AN AGENDA ITEM WILL RECEIVE UP TO THREE (3) MINUTES PER ITEM TO ADDRESS THE BOARD. THE BOARD WILL SOLICIT PUBLIC COMMENTS ON SUBJECTS NOT ON THIS AGENDA AND ANY PERSON WISHING TO SPEAK WILL RECEIVE UP TO THREE (3) MINUTES. THE BOARD ENCOURAGES YOU TO SUBMIT YOUR COMMENTS IN WRITING IN ADVANCE OF THE MEETING. ANY PERSON WHO DECIDES TO APPEAL A DECISION OF THIS BOARD WILL NEED A RECORD OF THE PROCEEDING PERTAINING THERETO, AND THEREFORE MAY NEED TO ENSURE THAT A VERBATIM RECORD IS MADE, WHICH INCLUDES THE TESTIMONY AND EVIDENCE UPON WHICH THE APPEAL IS TO BE BASED. IF YOU ARE A PERSON WITH A DISABILITY WHO NEEDS AN ACCOMMODATION IN ORDER TO PARTICIPATE IN THIS MEETING YOU ARE ENTITLED TO THE PROVISION OF CERTAIN ASSISTANCE. PLEASE CONTACT THE PELICAN BAY SERVICES DIVISION AT (239) 597-1749 OR VISIT [PELICANBAYSERVICESDIVISION.NET](http://PELICANBAYSERVICESDIVISION.NET).

**PELICAN BAY SERVICES DIVISION  
WATER MANAGEMENT COMMITTEE MEETING  
FEBRUARY 26, 2018**

The Water Management Committee of the Pelican Bay Services Division met on Monday, February 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  
Jacob Damouni

Mike Shepherd  
Scott Streckenbein (*ex-officio*)

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

Mary McCaughtry, Operations Analyst  
Lisa Jacob, Associate Project Manager  
Barbara Shea, Recording Secretary

**Also Present**

Jim Carr, Agnoli, Barber & Brundage

**APPROVED AGENDA (AS PRESENTED)**

1. Pledge of Allegiance
2. Roll call
3. Agenda approval
4. Approval of 08/03/17 meeting minutes
5. Audience comments
6. Bay Colony beach dune swale maintenance & permit mod to restore drainage
7. Size of weir crest at discharge of OLS/Villages/Las Brisas lake
8. Current lake chemical treatments
  - a. Types of chemicals used
  - b. Established frequency standard of chemical applications
  - c. Annual cost per lake
9. Aerators
  - a. Annual maintenance costs, including service contract costs
  - b. Maintenance issues
  - c. Effectiveness
  - d. Status of installation of aerators – final phase
10. Blue tilapia test lakes
  - a. Annual cost of using blue tilapia (per lake)
  - b. \*Authorization for restocking the Ridgewood Park lake
  - c. Consideration of expanded use of blue tilapia
11. Other business
12. Adjournment

*\*indicates possible action items*

**ROLL CALL**

All members were present and a quorum was established

**AGENDA APPROVAL**

**Mr. Shepherd motioned, Mr. Damouni seconded to approve the agenda as presented. The motion carried unanimously.**

**APPROVAL OF 08/03/17 MEETING MINUTES**

**Mr. Shepherd motioned, Mr. Streckenbein seconded to approve the 08/03/17 meeting minutes as presented. The motion carried unanimously.**

**AUDIENCE COMMENTS**

Mr. Peter Gerbosi commented on a streetlight pole, across from the Willow Brook, that was destroyed by Hurricane Irma. Mr. Dorrill commented that the pole is the subject of an insurance/FEMA claim.

**BAY COLONY BEACH DUNE SWALE MAINTENANCE**

Residents of the Carlisle condominium in Bay Colony expressed concerns over frequent flooding in their parking garage and related drainage issues. Mr. Dorrill commented on a drainage maintenance project completed last spring, which included removal of vegetation and exotics from the entire beach dune swale, as well as drainage maintenance work at the Brighton and Biltmore which included cleaning pipes and creating a retention area in the swale.

Mr. Dorrill commented that he will direct Earth Tech, our environmental consultant, to evaluate whether removal of additional vegetation from the swale is required. He also suggested a possible cost-sharing project with the Carlisle (similar to the Brighton and Biltmore project) which would include cleaning pipes and creating an additional retention area, to correct/improve the drainage flow from the parking garage to the swale.

**SIZE OF WEIR CREST AT DISCHARGE OF OLS/VILLAGES/LAS BRISAS LAKE**

Mr. Shepherd commented on flooding of resident property resulting from high water levels of Lake 3-1 during heavy rains. He suggested that the weir which is designed to take water away from this lake, does not have sufficient capacity.

Mr. Dorrill requested that Mr. Carr (our ABB engineer) provide a proposal to complete an engineering analysis and estimate to construct an additional conveyance pipe, pending whatever design and permit review is needed.

**CURRENT LAKE CHEMICAL TREATMENTS**

**TYPES OF CHEMICALS USED**

Mr. Cravens commented that tribune and hydrothol are the primary chemicals being used by the PBSO to treat algae. Mr. Bolick commented that on average, the cost of each chemical treatment is \$130 - \$200.

**ESTABLISHED FREQUENCY STANDARD OF CHEMICAL APPLICATIONS**

Mr. Bolick commented that two spray technicians (on staff) monitor our 45 lakes to determine when they receive chemical applications. There is no set established frequency standard of chemical applications.

**ANNUAL COST**

Mr. Bolick commented that the annual PBSB FY18 budget for chemicals (to treat lake algae) is \$135,500.

**AERATORS**

**MAINTENANCE ISSUES**

Mr. Cravens commented on our numerous malfunctioning solar aerators. Some have been out of service since before Hurricane Irma.

**EFFECTIVENESS**

Mr. Cravens questioned how the effectiveness of aerators could be measured.

**STATUS OF INSTALLATION OF AERATORS – FINAL PHASE**

**Mr. Shepherd motioned, Mr. Damouni seconded to recommend to the full board that we temporarily suspend our plans to put aerators in the remaining unaerated lakes until the 3 month blue tilapia evaluation is complete, and then we will revisit the plan at that time. The motion carried unanimously.**

**BLUE TILAPIA TEST LAKES**

**ANNUAL COST OF USING BLUE TILAPIA**

Mr. Cravens commented that he estimates the cost of installing blue tilapia in all 45 lakes would be approximately \$17,000.

**CONSIDERATION OF EXPANDED USE OF BLUE TILAPIA**

Mr. Cravens commented on the history, costs, and results of our blue tilapia testing in the Ridgewood Park lake and the Community Center lake since June 2014. Upon review of the blue tilapia's efficiency in combatting algae and its cost effectiveness, the committee was in favor of expanding the use of blue tilapia to additional lakes.

Mr. Peter Gerbosi commented on the algae problem in the Willow Brook lake and requested that the PBSB install blue tilapia in this lake.

Ms. Diane Lustig commented on a possible increase in our alligator population resulting from an increase in abundance of blue tilapia.

**Mr. Shepherd motioned, Mr. Damouni seconded to recommend to the full board that Mr. Bolick choose 20 of the worst lakes and stock them with an appropriate number of blue tilapia and we reassess in 3 months, and if satisfactory, we expand to the rest of the lakes; and if no material effect,**

then we drop back and continue discussion. The motion carried unanimously.

Mr. Shepherd motioned, Mr. Damouni seconded to recommend to the full board that we temporarily suspend application of bacteria in all lakes pending an evaluation of the performance of the blue tilapia after 3 months. The motion carried unanimously.

**OTHER BUSINESS**

**LAKE BANK EROSION – REMEDIATION IN FUTURE YEARS**

Mr. Shepherd motioned, Mr. Cravens seconded to recommend to the full board that our accrual rate be sufficiently high that we can tend to one additional lake each year starting in FY20 until all the lakes are satisfactorily remediated. The motion carried unanimously.

**ADJOURNMENT**

The meeting was adjourned at 3:26 p.m.

\_\_\_\_\_  
Tom Cravens, Chairman

Minutes approved [ ] *as presented* OR [ ] *as amended* ON \_\_\_\_\_ ] *date*

**Estimated annual cost for water quality sampling and collection, data analysis and WIN entry**

**Pollution Control Laboratory Costs**

	Clam Bay (9 sites)	Berm (10 sites)	Stormwater Lakes (32 sites)
Field sampling	\$ 417.69 monthly	\$ 192.78 monthly	\$ 1,285.00 quarterly
Lab analyses	\$ 751.85 monthly	\$ 665.64 monthly	\$ 3,136.32 quarterly
WIN set-up (one time fee)	\$ 383.44 one time fee	\$ 383.44 one time fee	\$ 383.44 one time fee
WIN data entry	\$ 287.58 monthly	\$ 191.72 monthly	\$ 817.92 quarterly
Field data validation	\$ 32.13 monthly	\$ 32.13 monthly	\$ 32.13 monthly
<b>SUBTOTAL</b>	<b>\$ 17,901.01</b>	<b>\$ 13,017.25</b>	<b>\$ 21,372.53</b>

**ANNUAL SUBTOTAL** \$ 52,290.79

**Estimated annual cost for quarterly and annual reporting**

Clam Bay & Berm sites	\$ 35,000	Turrell-Hall/Tomasko
Stormwater Lakes	\$ 38,000	CH2M

**ANNUAL SUBTOTAL** \$ 73,000.00

**ANNUAL TOTAL** \$ 125,290.79