PELICAN BAY SERVICES DIVISION
Municipal Services Taxing & Benefit Unit

NOTICE OF PUBLIC MEETING

NOVEMBER 21, 2019

THE WATER MANAGEMENT COMMITTEE OF THE PELICAN BAY SERVICES DIVISION WILL MEET AT 2:00 PM ON THURSDAY, NOVEMBER 21 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 8/8/19 meeting minutes
5. Audience comments
6. Current projects
   a. St. Maarten/St. Thomas Lake 2-9
   b. Bay Colony Dune Swale
   c. Grosvenor/Dorchester drainage basin
7. *St. Kitts pool deck expansion
8. Oak Lake Sanctuary swale
9. Review of algae problem in target lakes
10. Cane toads
11. Other committee member comments
12. Adjournment

*indicates possible action items

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 PROCEEDINGS 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.
PELICAN BAY SERVICES DIVISION
WATER MANAGEMENT COMMITTEE MEETING
AUGUST 8, 2019

The Water Management Committee of the Pelican Bay Services Division met on Thursday, August 8 at 2:30 p.m. at the Pelican Bay Services Division, 3rd floor of the SunTrust Bldg., Suite 302, located at 801 Laurel Oak Dr., Naples, Florida 34108. The following members attended.

**Water Management Committee**
Denise McLaughlin, Chair
Tom Cravens

**Pelican Bay Services Division Staff**
Neil Dorrill, Administrator
Lisa Jacob, Interim Operations Manager

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

**Jacob Damouni (absent)**
Michael Weir

Mary McCaughtry, Operations Analyst
Alex Mumm, Interim Sr. Field Supervisor
Barbara Shea, Recording Secretary

**APPROVED AGENDA (AS AMENDED)**

1. Pledge of Allegiance
2. Roll call
3. Agenda approval
4. Approval of 5/13/19 meeting minutes
5. Audience comments
6. Proposed mission statement: manage and protect Pelican Bay resources and ecosystems by identifying and prioritizing issues and projects
7. Review of current projects
   a. St. Maarten/St. Thomas Lake 2-9
   b. Bay Colony Beach Dune Swale
   c. Grosvenor/Dorchester drainage basin
   d. County process change: engineering contracts (*add-on*)
8. Algae
9. Pipe evaluation process and status
10. Other committee member comments
11. Adjournment

**ROLL CALL**
Mr. Damouni was absent and a quorum was established
AGENDA APPROVAL

Mr. Cravens motioned, Mr. Weir seconded to approve the agenda as amended with the addition of item #7d. The motion carried unanimously.

APPROVAL OF 05/13/19 MEETING MINUTES

Mr. Cravens motioned, Mr. Weir seconded to approve the 05/13/19 meeting minutes as presented. The motion carried unanimously.

AUDIENCE COMMENTS

None

PROPOSED MISSION STATEMENT

Ms. McLaughlin proposed the Water Management Committee’s mission statement as “manage and protect Pelican Bay resources and ecosystems by identifying and prioritizing issues and projects.” Mr. Cravens proposed and the committee agreed to add the word “water” resulting in the modified phrase “Pelican Bay water resources.”

REVIEW OF CURRENT PROJECTS

ST. MAARTEN/ST. THOMAS LAKE 2-9

Mr. Tom Barber, civil engineer with Agnoli, Barber & Brundage, provided a presentation on lace 2-9, including a discussion on the original lake bank remediation design plans consisting of a combination of seawall, geoweb, and rip rap. The bids received for this project (in early July) were much higher than expected; specifically, the bids included a cost for the proposed seawall coming in three times higher than what was anticipated. Mr. Barber suggested that “access” may have contributed to this unexpected high cost. Mr. Lorrill suggested that “after effects” from Hurricane Irma may be a contributing factor, as there continues to be high demand for seawall repairs/replacement in SW Florida. Mr. Weir suggested that we contact the St. Maarten/St. Thomas Association to determine whether they are interested in cost sharing in this project. Ms. Jacob will contact Mr. Gentry Thatcher, President of the St. Maarten/St. Thomas Assoc. to explore the possibility of cost sharing this project, using the specifications/design plans as was recently bid out in June.

All of the committee members agreed that a more cost-effective plan is needed. Mr. Barber discussed cost reducing alternatives including (1) reduce the length of the concrete seawall, (2) use an alternate construction material such as vinyl sheet pile to construct the seawall, and (3) eliminate the seawall and excavate the peninsula preserve area to maintain the width of the “pinch-point” of the lake to ensure the water flow through this area.

Mr. Dorrill summarized our options as (1) proceed with the proposed plan as originally designed, and seek an additional $250,000 from reserves or the anticipated FY 2020 line of credit, (2) redesign the seawall, reducing the length to the maximum extent possible, or (3) eliminate the seawall; go to fill and a 4:1 slope and explore the cost to clear and reconstruct the north side of the peninsula at the pinch point. Mr. Cravens suggested that any alternate proposals should include not only an expected cost estimate, but also the change in life expectancy of the remediation.
After discussion, the committee and staff requested that our ABB engineers prepare new cost proposals using the more cost-effective options discussed. They will also provide a cost estimate using “rip rap only.”

Mr. Dorrill suggested that the PBSD should set up parameters on the appropriate remediation methods for our future lake bank remediation projects.

**BAY COLONY BEACH DUNE SWALE**
Mr. Jim Carr, civil engineer with Agnoli, Barber & Brundage, summarized the progress that has been made in obtaining a permit exemption from the SFWMD (South Florida Water Management District) for our proposed beach dune swale maintenance project for “re-establishing conveyance.” He reported that he expects the SFWMD to issue a permit exemption within 2-3 weeks. Ms. Jacob commented that the cost estimate of the project is $1.5 million and the project will go through the solicitation process by the County Procurement Dept. In general, the solicitation process takes six months. Mr. Dorrill expects work to begin on this project in the spring of 2020 (post snowbird season).

**GROSVENOR/DORCHESTER DRAINAGE BASIN**
Mr. Carr summarized and provided photos of the recent maintenance work completed in the Grosvenor drainage basin including drainage pipe cleaning and rip rap replacement. Additional work is needed, including invasive removal, to improve water flow in the drainage channels. Ms. Jacob and Ms. McCaughtry confirmed that funds have been included in the FY2020 budget for this project. Work is expected to be completed before Christmas.

**COUNTY PROCESS CHANGE: ENGINEERING CONTRACTS (ADD-ON)**
Mr. Carr commented on the restructuring of the County’s Purchasing Dept. and the changes in the methods of preparing annual contracts. He suggested that national engineering firms may be awarded County engineering contracts and become the “engineer of record” on County projects.

**ALGAE**
Mr. Dorrill commented on a recent staff meeting with Ms. McLauglin where our chronic algae problem was discussed. Over the last six years, staff has tried different methods to combat algae including bacteria, enzymes, hydrogen peroxide, enhanced aeration and blue tilapia. He noted that in late spring and early fall, we have observed excessive algae in eight lakes, which coincides with scheduled turf fertilization programs. Mr. Dorrill suggested that the committee consider the limited re-use of copper sulfate under certain circumstances in targeted areas.

Mr. Mumm provided a list of the eight lakes with chronic algae problems. Beginning on Monday Aug. 12, and going forward, Mr. Mumm intends to treat these lakes with Hydrothol (hydrogen peroxide) and Green Clean, and record the condition of each lake at the time of treatment and 48 hours later. He will closely monitor these lakes on a weekly basis. Mr. Cravens commented that we need more information on the ingredients in these products. He also reminded the committee that Clam Bay was declared impaired for copper and given five years to come up with a plan for improvement. The PBSD did come up with a plan, and Clam Bay is no longer impaired. However, all of our lake bottoms
contain copper residue from treating our lakes with copper sulfate in the past. Mr. Cravens commented that killing algae has ramifications to the entire ecological system.

Mr. Mumm commented that he will be scheduling a meeting with Ms. Kamila Perez, Environmental Specialist with Collier County, who has expertise in lake management. He will report any pertinent information learned from Ms. Perez to the committee. Mr. Mumm also commented that he has learned of new products designed for algae control, which should be coming onto the market within the next few months and are expected to be less harmful to the environment than Hydrothol or copper.

Mr. Dorrill summarized that staff is now gathering data on chronic algae, and will continue to keep the committee informed on the data collection.

Ms. McLaughlin commented on her recent “lake and algae tour” with Mr. Mumm, which she found to be very educational. She suggested that the other committee members take a similar tour. To avoid Sunshine Law issues, the other committee members are invited to contact Mr. Mumm for similar individual lake and algae tours.

PIPE EVALUATION PROCESS AND STATUS

Ms. Jacob reported that she is still waiting for work to be completed by our contractor Envirowaste, who was contracted to video pipe on Watergate Way and make repairs to pipes connecting two lakes in Georgetown. Mr. Dorrill commented that we are eligible to do our own solicitation for pipe evaluation and cleaning, and suggested that we proceed in this manner.

ADJOURNMENT

The meeting was adjourned at 4:11 p.m.

Denise McLaughlin, Chair

Minutes approved [ ] as presented OR [ ] as amended ON date