

**PELICAN BAY SERVICES DIVISION
CLAM BAY COMMITTEE MEETING
MARCH 2, 2017**

The Clam Bay Committee of the Pelican Bay Services Division met on Thursday, March 2 at 1:00 p.m. at the SunTrust Bank Building, 801 Laurel Oak Drive, Suite 302, Naples, Florida 34108. In attendance were:

Clam Bay Committee
Susan O'Brien, Chairman

Bohdan Hirniak
Gary Ventress

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

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

Also Present
Mohamed Dabees, Humiston & Moore
Tim Hall, Turrell, Hall & Associates
Mary Johnson, Pelican Bay Foundation

Mike Shepherd, PBSB Board
Jeremy Sterk, Earth Tech
Dave Trecker, PBSB Board

APPROVED AGENDA (AS AMENDED)

1. Roll call
2. Agenda approval
3. Approval of 02/02/17 meeting minutes
4. Audience comments
 - a. "Water Quality Analysis"
5. Mangrove die-off
 - a. THA February report
 - b. H & M February tidal ratio data
 - c. Water level logger data
 - d. Elevation and bathymetric survey results
 - e. Mid March monitoring of mangrove plots
 - f. Monthly mangrove die-off monitoring
 - g. Maintenance of hand-dug channels
 - h. Additional consultant support
 - i. Intervention strategies
6. Clam Bay monitoring in 2017
 - a. Dredging follow up (*add-on*)
7. Water quality monitoring
 - a. Copper results
 - b. 2016 WQ report
 - c. 2017 WQ report
 - d. Sediment testing for TP
8. Next meeting: April 6
9. Adjournment

ROLL CALL

All members were present and a quorum was established

AGENDA APPROVAL

Mr. Ventress motioned, Mr. Hirniak seconded to approve the agenda as amended with the addition of discussion item #6a. The motion carried unanimously.

APPROVAL OF 02/02/17 MEETING MINUTES

Mr. Ventress motioned, Mr. Hirniak seconded to approve the 02/02/17 meeting minutes as presented. The motion carried unanimously.

AUDIENCE COMMENTS

Dr. Trecker commented on Dr. Tomasko's 2016 Water Quality Report which indicates that total phosphorus in Clam Bay exceeded FDEP criteria in 2016. Possible causes of high phosphorus levels are, (1) inadequate tidal flushing in Upper Clam Bay, (2) lake discharges containing high phosphorus levels, and (3) sediment recycle from plant/fecal buildup.

Dr. Trecker summarized comments by Dr. Tomasko during a recent conversation including, (1) FDEP does not require specific Clam Bay copper measurements, (2) FDEP cited Clam Bay as "impaired for copper" based on sampling from sites CB1, CB3 and CB6 and therefore, it may be reasonable to monitor copper levels only at these three sites, (3) collecting samples from berm areas for copper level monitoring may be meaningless as these areas are dry or close to dry during parts of the year, and (4) hardness measurements should be taken at some upland lakes.

Mr. Hall commented that copper levels have been monitored at 9 sampling sites, per the Clam Bay Management Plan. He commented that Clam Bay is currently on "the planning list" for copper by FDEP.

MANGROVE DIE-OFF

THA FEBRUARY REPORTS

Mr. Tim Hall reported (1) February observations indicate no expansion of the original mangrove die-off area, and (2) some seedling regeneration/regreening can be observed in some of the stressed areas.

H&M FEBRUARY TIDAL RATIO DATA

Dr. Dabees commented that the February tidal ratios are at less than preferred levels. He suggested that this is a result of observed average water levels being lower than normal for the month of February.

WATER LEVEL LOGGER DATA

Mr. Sterk commented that the water level logger data will be available next week.

ELEVATION AND BATHYMETRIC SURVEY RESULTS

Mr. Sterk provided data from the recently completed topographic survey, which included three transects from the Strand wall to Clam Bay. Mr. Sterk and Dr. Dabees concluded that this

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area is almost a flat plain. As a result of the flat topography, Mr. Hall concluded that increasing the number or size of hand-dug channels would not result in any benefit.

Ms. Mary Johnson commented on sea level rise and possible effects on Clam Bay.

MID MARCH MONITORING OF MANGROVE PLOTS

Mr. Sterk commented that his mid-March mangrove plot monitoring report should be available at the April committee meeting.

MONTHLY MANGROVE DIE-OFF MONITORING

Mr. Hall commented that March is the last month of his monthly mangrove die-off monitoring contract.

MAINTENANCE OF HAND-DUG CHANNELS

Mr. Sterk commented that inspections of the hand-dug channels will be completed in March/April, from which he will provide direction/information on troubled areas for targeted maintenance work to our maintenance contractor.

ADDITIONAL CONSULTANT SUPPORT

The committee decided that no additional consultant support is necessary at this time.

Mr. Peter Duggan commented that the Mangrove Action Group has decided to finance up to \$10,000 for a PEM research test (alternative beach renourishment) to try to motivate the TDC, PBF and others to take similar action. He extended an invitation to join Dr. Tonya Clayton (author of "How to Read a Beach") for a walk on South Beach on March 22 at 7:30 a.m. and at Clam Pass Park at 9:30 a.m.

INTERVENTION STRATEGIES

The committee agreed that no intervention strategies are warranted at this time.

CLAM BAY MONITORING IN 2017

Ms. Jacob commented that the new two year Clam Bay monitoring contract, awarded to Earth Tech, will be brought to the BCC on March 14 for approval, and then commence at the end of the month.

DREDGING FOLLOW UP (ADD-ON)

Mr. Dorrill commented on post-dredging permit requirements: Between March 15 and April 15, our engineers will be performing compaction testing to determine whether beach tilling will be necessary. All turtle nesting requirements will be completed by the County.

Dr. Dabees commented that no escarpment issues have been observed and monitoring will continue.

WATER QUALITY MONITORING

COPPER RESULTS

Ms. Jacob commented that monthly copper results will be available from the County Lab by next Friday.

2016 WQ REPORT

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The 2016 Water Quality Report was discussed by Dr. Trecker under "audience comments." Based on the recommendation by Dr. Tomasko, staff will add "hardness measurements" at six berm sites and "clarity" at the nine Clam Bay sites to monthly water quality testing by the County lab. Committee members noted that Dr. Tomasko did not report that the County Lab elected to rerun seven of nine samples for Clam Bay copper in July 2016 and found only three of the samples exceeded the FDEP standard for copper.

2017 WQ REPORT

Staff provided a draft of the RFQ for 2017 Clam Bay Water Quality Monitoring & Analysis. The committee made the following suggestions: (1) the 4 quarterly reports should focus only on total nitrogen and total phosphorus, (2) the annual report should include TN, TP, copper and dissolved oxygen, (3) the annual report should include an exhibit of sampling sites and tables showing highlighted exceedances for TP, TN and copper, (4) report deadlines should be 30 days following the receipt of County lab monthly data, and (5) the expectation is that these reports will be prepared by a site specific water quality expert.

SEDIMENT TESTING FOR TP

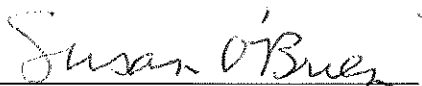
Ms. Jacob is in the process of preparing an RFQ for sediment testing for phosphorus and copper at 11 Clam Bay locations. The committee suggested and staff agreed to add the Vizcaya lake as a 12th site.

NEXT MEETING: APRIL 6, 2017

By consensus, the committee agreed that the next meeting of the committee would be held on April 6 at 1:00 p.m.

ADJOURNMENT

The meeting was adjourned at 2:52 p.m.



Susan O'Brien, Chairman

Minutes approved [] as presented OR [] as amended ON [4-6-17] date