



TOWN OF PALM BEACH

Town Manager's Office

**TENTATIVE-
SUBJECT TO
REVISION**

SHORE PROTECTION BOARD MEETING

AGENDA

THURSDAY, NOVEMBER 18, 2021

9:00 AM

**TOWN COUNCIL CHAMBERS
360 SOUTH COUNTY ROAD**

WELCOME!

The progress of this meeting may be monitored by visiting the Town's website (www.townofpalmbeach.com) and selecting "Live Meeting Audio" under the "Your Government" tab. If you have questions regarding that feature, please contact the Office of Information Systems (561) 227-6315. The audio recording of the meeting will appear within 24 hours after the conclusion of the meeting under "Agendas, Minutes, and Audio."

I. CALL TO ORDER

II. ROLL CALL

Kane Baker, Chair
Reuben B. Johnson, III, Vice-Chair
Warren Belmar, Shore Protection Board Member
Melissa Cerialle, Shore Protection Board Member
James C. Gavigan, Shore Protection Board Member
Vladimir Rapoport, Shore Protection Board Member
Erick Reickert, Shore Protection Board Member

III. PLEDGE OF ALLEGIANCE

IV. APPROVAL OF AGENDA

V. APPROVAL OF THE MINUTES OF THE MAY 27, 2021 MEETING

VI. COMMUNICATIONS FROM CITIZENS - 3 MINUTE LIMIT PLEASE

- VII. CURRENT SHORELINE CONDITIONS
[Robert Weber, Coastal Program Manager]
- IX. COASTAL PROJECTS UPDATE
[Robert Weber, Coastal Program Manager]
- Level-Up Palm Beach Coastal Resiliency Implementation Plan
 - 2022 Lake Worth Inlet
 - o Sand Transfer Plant Assessment
 - o Maintenance Dredging
 - o Sand Forepassing
 - 2022 Dune Restoration in Reaches 4 and 9
- X. REACH 8 DISCUSSION
[Robert Weber, Coastal Program Manager]
- XI. DRAFT ANNUAL SHORE PROTECTION BOARD REPORT TO TOWN COUNCIL
[Robert Weber, Coastal Program Manager]
- XII. SCHEDULING OF FUTURE MEETINGS
[Patricia Strayer, P.E., Town Engineer]
- Regular SPB Meeting, Thursday, January 27, 2022
- XIII. COMMUNICATIONS FROM SHORE PROTECTION BOARD MEMBERS
- XIV. ANY OTHER MATTERS
- XV. ADJOURNMENT

Note: Disabled persons who need an accommodation in order to participate in the Town Council Meeting are requested to contact the Town Manager's Office at 838-5410 or through the Florida Relay Service by dialing 1-800-955-8770 for voice callers or 1-800-955-8771 for TDD callers, at least two (2) working days before this meeting.



TOWN OF PALM BEACH

Town Manager's Office

MINUTES OF THE SHORE PROTECTION BOARD MEETING HELD ON THURSDAY, MAY 27, 2021

I. CALL TO ORDER

The Shore Protection Board meeting was called to order on Thursday, May 27, 2021, at 9:02 a.m. This meeting was held virtually via Zoom Webinar.

II. ROLL CALL

All of the Board Members and alternate Board Members were present.

Kane Baker, Chair
Reuben B. Johnson, III, Vice-Chair
Warren Belmar, Shore Protection Board Member
Melissa Cerialle, Shore Protection Board Member
James C. Gavigan, Shore Protection Board Member
Vladimir Rapoport, Shore Protection Board Member
Erick Reickert, Shore Protection Board Member

III. PLEDGE OF ALLEGIANCE

Chair Kane Baker led the Pledge of Allegiance.

IV. APPROVAL OF AGENDA

Motion was made by Chair Kane Baker to approve agenda. Motion seconded by Vice-Chair Reuben Johnson. Motion carried unanimously.

V. APPROVAL OF THE MINUTES OF THE JANUARY 21, 2021 MEETING AND APPROVAL OF THE MINUTES OF THE FEBRUARY 11, 2021 WORKSHOP

Motion to approve minutes of the January 21, 2021 meeting was made by Chair Kane Baker, seconded by Board Member James Gavigan. Motion. Motion carried unanimously.

Motion to approve minutes of the February 11, 2021 Workshop was made by Chair Kane Baker, seconded by Board Member James Gavigan. Motion carried unanimously.

1 Robert Weber, Coastal Program Manager, reviewed guidelines for Zoom meeting while
2 meeting is in session.
3

4 **VI. COMMUNICATIONS FROM CITIZENS – 3 MINUTE LIMIT PLEASE**
5

6 Mr. Bradford Gary, 229 Onondaga Ave., Palm Beach. Spoke on the flood projections for Palm Beach
7 and the production and distribution of FEMA charts which attempt to quantify water level increase. Mr.
8 Gary asked Florida Atlantic University Ocean Science staff to produce a chart which shows sea level
9 rise. Certain areas deemed a flood hazard on the theme of charting. Mr. Gary believes further
10 investigation is required by the Shore Protection Board and perhaps Woods Hole Group to determine
11 what is in the flood zone and what is not.
12

13 Mr. Gary feels the Town of Palm Beach is not equipped to accurately measure tidal flow or any of the
14 other factors. The Town lacks an accurate oceanic tidal gauge to record water level rise and fall.
15

16 Chair Kane Baker thanked Mr. Gary for his time as he had exceed the three (3) minute allotted time.
17 Board Members Melissa Ceriale, Warren Belmar, Reuben Johnson asked that Mr. Gary continue with
18 his comments. Board Member James Gavigan asked to take a vote to have Mr. Gary continue, Chair
19 Baker took a vote of the Board Members, all were in favor.
20

21 Mr. Gary was contacted to continue.
22

23 Mr. Gary's solution, as he is suggesting on the lack of real information, is in installation of an oceanic
24 tide gauge and a tide gauge at the new Town marina. These devices could accurately measure water
25 levels in the lake and at the midpoint of our barrier island. Accurate, real world tidal flow, and sea level
26 increase, would be recorded. The cost of the naval research is \$2,000, having a monitor would go up.
27

28 Discussion ensued.
29

30 Diane Buehler, Friends of Palm Beach. Presented an update of trash removal on the beach.
31

32 **VII. CURRENT SHORELINE CONDITIONS**
33

34 [Robert Weber, Coastal Program Manager]
35

36 Robert Weber, Coastal Program Manager made a presentation of the shoreline conditions.
37

38 **VIII. COASTAL RESILIENCY IMPLEMENTATION PLAN**
39

40 [Robert Weber, Coastal Program Manager, Bob Hamilton, President, Woods Hole Group, and Nasser
41 Brahim, Senior Climate Resiliency Specialist, Woods Hole Group]
42

43 Bob Hamilton and Nasser Brahim of Woods Hole Group made presentation to the Board. Discussion
44 ensued.
45

46 **IX. COASTAL PROJECTS UPDATE**
47

48 [Robert Weber, Coastal Program Manager]
49

- 50 • 2021 Lake Worth Inlet
 - 51 o Maintenance Dredging – the Army Corp of Engineers is planning on coming back later
52 this year to do the dredging. Merrain Road access will be used.
 - o Sand Transfer Plant – There has been good productivity with the Plant. An asset review
has been performed with one of the consultants, the report will be finalized in the
summer. The Town wants to try and minimize, anticipate, and best minimize
anticipated disruptions to the operation.

- 2021 Phipps Ocean Park Beach Nourishment – Presentation presented by Mike Jenkins of ATM
- 2021 Dune Restoration in Reaches 3, 4, 7, 8, and 9 – Presentation presented by Mike Jenkins of ATM

Discussion ensued.

X. RECOMMENDATION TO TOWN COUNCIL REGARDING THE PROPOSED FY 2022 COASTAL MANAGEMENT PROGRAM BUDGET
[Robert Weber, Coastal Program Manager]

Robert Weber, Coastal Program Manager, shared the FY2020 budget was used for FY2021 to keep moving forward. With staff approvals and recommendations to Town Council, staff is taking the opportunity to meet with the Shore Protection Board to discuss the proposed FY2022 budget.

Discussion ensued.

Motion was made by Board Member James Gavigan for approval of the budget. Seconded by Vice-Chair Reuben Johnson. Motion carried unanimously.

XI. RESPONSIBILITY AND METHODS FOR BEACH CLEANING AND DISPOSAL
[Patricia Strayer, P.E, Town Engineer]

Patricia Strayer, Town Engineer, reviewed back-up memorandum from 2018 describing the history of beach cleaning. There is a contract with Universal Beach Services to clean the beach. Part of the issues is disposal on private beaches, when their garbage is put next to a public beach, it is illegal dumping. Another issue is the specific guidelines from the U.S. Fish and Wildlife Service when abandoned vessels are on our shores limit the Town's ability to touch them until there is a "time expired". The Town can only take responsibility if it is on the public beach.

Discussion ensued.

XII. POLICY ON DUNE VEGETATION
[Robert Weber, Coastal Program Manager]

The budget for Coastal Management Program is specific to the Mid-Town area. Vegetation efforts will be folded into the cost of the projects themselves. The dune restoration project or the planting for the restoration project is coming after November 1st.

XIII. SHORE PROTECTION BOARD MEMBER TASKS
[Robert Weber, Coastal Program Manager]

- Communication - Melissa Ceriale and Warren Belmar
- Coastal Resiliency – Reuben Johnson and James Gavigan
- Groins and Seawalls - Vladimir Rapoport
- Easements for Cost-sharing - Warren Belmar and Reuben Johnson
- Public Access for State and Federal funding - Reuben Johnson
- Inlet – Kane Baker

XIV. SCHEDULING OF FUTURE MEETINGS
[Patricia Strayer, P.E., Town Engineer]

November 18, 2021 has been agreed upon for the next Shore Protection Board meeting.

1 **XV. COMMUNICATIONS FROM SHORE PROTECTION BOARD MEMBERS**

2
3 There were no comments from the Shore Protection Board.

4
5 **XVI. ANY OTHER MATTERS**

6
7 There were no other matters to discuss.

8
9 **XVII. ADJOURNMENT**

10
11 **There being no further business, the Shore Protection Board of May 27, 2021, was**
12 **adjourned at 12:42pm. Motion made by Chair Kane Baker, seconded by Board Member**
13 **Vladimir Rapoport. Motion carried unanimously.**
14

15
16
17
18 APPROVED:

19
20
21
22 _____
23 Kane Baker,
24 Chair

25 *Meeting audio is located at:*

26 [https://zoom.us/rec/share/08UYFhab2oUjjJo6hRfzoi4XmcL8JSjju2wwtZNI6ual34Ylnj-](https://zoom.us/rec/share/08UYFhab2oUjjJo6hRfzoi4XmcL8JSjju2wwtZNI6ual34Ylnj-uK0_5wz1BNEU.789MTrtzGTPH0L8t)
27 [uK0_5wz1BNEU.789MTrtzGTPH0L8t](https://zoom.us/rec/share/08UYFhab2oUjjJo6hRfzoi4XmcL8JSjju2wwtZNI6ual34Ylnj-uK0_5wz1BNEU.789MTrtzGTPH0L8t)
28

TOWN OF PALM BEACH

Information for Shore Protection Board Meeting on: November 18, 2021

TO: Shore Protection Board

FROM: Kirk W. Blouin, Town Manager

VIA: Robert Weber, Coastal Program Manager

RE: Coastal Projects Update
Item IX.

DATE: November 10, 2021

STAFF RECOMMENDATION

Town staff requests the Shore Protection Board (SPB) review the attached information and provide any additional input deemed necessary.

GENERAL INFORMATION

Listed below is a brief update of the ongoing activities for the Coastal Management Program. Town staff can provide more details of each item during the SPB meeting.

Level Up Palm Beach Coastal Resiliency Implementation Plan

- Woods Hole Group published their final draft in August 2021.
- With Coastal Resiliency effecting several facets of Town operations, Town Council determined that they will be the clearinghouse for resiliency and will task individual boards and commissions with specific tasks, as necessary.
- Woods Hole Group assisted Town staff with submitting state grant applications for applicable capital improvement projects. Success of the grant application process is expected sometime in December 2021.

2022 Lake Worth Inlet

Sand Transfer Plant Assessment

- Town consultant GHD performed an integrity assessment of the facility's components in March 2021 and inspected the pipelines in April 2021 and submitted reports of their findings to the Town.
- GHD is currently completing their risk assessment of the Sand Transfer Plant. This report is expected sometime before the end of the 2021 calendar year.
- A scheduled capital improvement program to keep the plant operational will be developed in early 2022 based on the multiple assessment reports.
- The plant is currently operational and is actively bypassing sand with more than 100,000 cubic yards of sand bypassed in 2021.

Maintenance Dredging

- Town staff has obtained all necessary easements from the applicable property owners along the north end beaches of Reaches 1 and 2 in preparation for the U.S. Army Corps of Engineers to perform a large-scale inlet maintenance dredging and sand placement project later this calendar year.
- The anticipated volume is on the order of 400,000 cubic yards of sand.
- The work is expected to take place between January 6 and April 30, 2022.
- Heavy equipment will be placed on the beach utilizing the beach access at Merrain Road.
- On November 9, 2021, Town Council approved a waiver to Town Code for construction dates, hours, and noise at both the lagoon staging area south of the turning basin (approximately 2000 feet from the Town's lagoon shoreline) and the beach in Reaches 1 and 2 from the inlet to Palmo Way.

Sand Forepassing

- Town staff is working with Corps staff in order to have approximately 25,000 of the 400,000 cubic yards of sand accessible to be mechanically moved by a Town contractor to the beach south of Palmo Way to approximately Colonial Lane.
- If feasible, the work would need to be completed before April 30, 2022.
- The project would be cost shared 75% with a state grant.

2022 Dune Restoration in Reaches 4 and 9

- On November 8, Town Council authorized the Town to proceed with finalizing the FEMA sand placement effort in Mid-Town with dune restoration from approximately Hammon Avenue to Banyan Road and to work with the Town of South Palm Beach to place sand in Reach 9 at 100% cost of South Palm Beach.
- Town Council also authorized the placement of sand in the Sloan's Curve area, if necessary.
- This work will need to be completed before April 30, 2022.
- A dune planting scope of work is being developed to vegetate the dune restoration areas completed in both 2021 and 2022.

cc: Jay Boodheshwar, Deputy Town Manager
H. Paul Brazil, P.E., Director of Public Works
Patricia Strayer, P.E., Town Engineer

TOWN OF PALM BEACH

Information for Shore Protection Board Meeting on: November 18, 2021

TO: Shore Protection Board

FROM: Kirk W. Blouin, Town Manager

VIA: Robert Weber, Coastal Program Manager

RE: Reach 8 Discussion
Item X.

DATE: November 10, 2021

STAFF RECOMMENDATION

Town staff requests that the Shore Protection Board (SPB) recommend to Town Council that the Town continue to pursue the Environmental Impact Statement (EIS) Record of Decision (ROD) and Joint Coastal Permit from the U.S. Army Corps of Engineers for the Town's "Preferred Alternative" in Reach 8.

GENERAL INFORMATION

Tom Pierro, Coastal Protection Engineering (CPE), will be providing a presentation of the continued lengthy regulatory process for beach nourishment in Reach 8. The presentation will include a review of recent survey data that shows how the Town has been able to sufficiently provide storm protection in Reach 8 through repetitive dune restoration and achieve the goals of the Town's "Preferred Alternative" without invoking a costly mitigation obligation by placing sand below the mean high water line.

Although the storm protective goals have been achieved, there is a benefit to complete the EIS and permitting process. Having a permit, should shoreline conditions warrant more action to be taken, will expedite the work. Town staff will receive a scope of work proposal from CPE for Town Council consideration if the SPB recommends that the Town continue pursuing the ROD and permit for Reach 8.

cc: Jay Boodheshwar, Deputy Town Manager
H. Paul Brazil, P.E., Director of Public Works
Patricia Strayer, P.E., Town Engineer

TOWN OF PALM BEACH

Information for Shore Protection Board Meeting on: November 18, 2021

TO: Shore Protection Board

FROM: Kirk W. Blouin, Town Manager

VIA: Robert Weber, Coastal Program Manager

RE: Annual Report to Town Council
Item XI.

DATE: November 10, 2021

STAFF RECOMMENDATION

Town staff requests that the Shore Protection Board (SPB) review the draft of the Annual Report that will be presented to Town Council and offer comments or revisions.

GENERAL INFORMATION

Each of the Town Council appointed boards and commissions provide annual reports to the Town Council. Town staff has developed a draft version of the report, based on the actions taken by the board during this past year of meetings.

The draft report is to be discussed by the SPB at the November 18, 2021 meeting. Comments by the SPB members will be incorporated into the draft document and Town staff will work with SPB Chairperson, Kane Baker, to finalize the document. Each of the SPB members will receive a copy of the Annual Report once the document has been approved by Chairperson Baker. The report is to be presented by Chair Baker to Town Council on December 14, 2021.

Attachment

cc: Jay Boodheshwar, Deputy Town Manager
H. Paul Brazil, P.E., Director of Public Works
Patricia Strayer, P.E., Town Engineer

TOWN OF PALM BEACH

Information for Town Council Meeting on: December 14, 2021

TO: Mayor and Town Council

VIA: Kirk W. Blouin, Town Manager

FROM: Kane Baker, Shore Protection Board Chairperson
Robert Weber, Coastal Program Manager

RE: Shore Protection Board Annual Report

DATE: November 18, 2021

The Shore Protection Board (SPB) is currently comprised of seven (7) regular members by the Town Council for three-year terms.

A chairperson and vice-chairperson are selected by the members. The 2021 SPB membership was as follows:

2018 Shore Protection Board Member	Position	Current Term Expires
Kane Baker	Chairperson	12/2021
Melissa Ceriale	Vice-chairperson	12/2022
Warren Belmar	Regular Member	12/2021
James C. Gavigan	Regular Member	12/2021
Reuben B. Johnson, III	Regular Member	12/2021
Vladimir Rapoport	Regular Member	12/2022
Erick Reickert	Regular Member	12/2022

Kane Baker, James Gavigan, and Reuben Johnson are currently serving their final three-year term ending in December 2021. Warren Belmar is currently serving his first full three-year term ending in December 2021 and is eligible for re-appointment. Melissa Ceriale is currently serving her first full term and will be eligible to be appointed for an additional (3) three-year term in December 2022. Both Vladimir Rapoport and Erick Reickert are serving partial terms since they were promoted from alternate member to regular member and will be eligible to be appointed for their first full term in December 2022. SPB members are allowed to serve for two (2) consecutive three-year terms.

The Board met three (4) times during the 2021 calendar year.

2021 Shore Protection Board Member	Meetings Attended	Absences	Jan 21	Feb 11	May 27	Nov 18
Kane Baker	4	0	P	P	P	P
Warren Belmar	4	0	P	P	P	P
Melissa Ceriale	4	0	P	P	P	P
James C. Gavigan	4	0	P	P	P	P
Reuben B. Johnson, III	4	0	P	P	P	P
Vladimir Rapoport	4	0	P	P	P	P
Erick Reickert	4	0	P	P	P	P

P = Present

E = Excused

U = Unexcused

CURRENT SHORELINE CONDITION

The Town's proactive on-going coastal management efforts have maintained storm protection along the 12.2 miles of Town shoreline. The shorelines in Reaches 7 and 8 (and Reach 9 in the Town of South Palm Beach) were further stabilized with beach nourishment and dune restoration efforts in early 2021. As a result of a mild hurricane season, all sand from the completed projects remained in place. A strong nor'easter in early November 2021 displaced some sand from the beach berm into the nearshore sandbar along most areas of the Town. This is largely a seasonal adjustment and the beaches will naturally recover. Most of the dune sand placed in Reach 9 was displaced from the limited dry beach as a result of the nor'easter.

2021 COASTAL PROTECTION PROJECTS

The Phipps Ocean Park Beach Nourishment project was completed on April 27, 2021 which included the placement of 495,000 cubic yards of sand placed between Phipps Ocean Park and the Ambassador Hotel in Reach 7 along a shoreline distance of approximately 1.25 miles. The nourishment project was cost shared with FEMA at 75% due to hurricanes Matthew and Irma.

The project included a stockpile of sand placed on the beach between Phipps Ocean Park and the Par 3 Golf Course. More than 62,000 cubic yards of sand were truck hauled to various dune restoration areas in Reaches 7, 8, and 9: approximately 19,000 cubic yards in the Sloan's Curve area of Reach 7; approximately 23,000 cubic yards of sand in Reach 8 south of the Lake Worth pier; and approximately 20,000 cubic yards of sand in the Town of South Palm Beach. The dune restoration work was completed on May 5, 2021 and covered a shoreline distance of 1.65 miles. The Reach 7 and Reach 8 dune restoration projects were cost shared with FEMA at 75%. The Town of South Palm Beach was responsible for 100% of the Reach 9 dune restoration project costs.

Biological, physical, sea turtle nesting, and shorebird monitoring work continued, as required by State's Beach Management Agreement (BMA) and/or Federal permits, as previously approved by Town Council.

2021 SHORE PROTECTION BOARD ACTIONS

During the January 21, 2021 SPB meeting, the SPB members discussed goals for the upcoming calendar year and held a subsequent workshop on February 11. Due to the changes in project status for Mid-Town, the board changed their goal entitled “Establish Long-term Easements for Construction Efficiency and State and Federal Cost Sharing” to read “Consideration of a Policy for Securing Federal and Town Easements Needed for Construction and Implications for State and Federal Cost Sharing”.

Five (5) 2021 Goals and Objectives were identified:

1. Improve Communication and public relations

Action: Limited due to the ongoing constraints related to the global pandemic. Public engagement and public participation are expected to increase in 2022 as health mandates are relaxed.

2. Support and Implement a coastal vulnerability and resiliency implementation plan that will consider the oceanfront and the lagoon.

Action: Woods Hole Group provided the Town with the Level Up Palm Beach Coastal Resiliency Implementation Plan in August 2021. Grant applications have been submitted to potentially obtain state cost share for implementing applicable capital improvement projects.

3. Develop and implement permitted coastal hard structure technology where appropriate.

Action: 90% design has been completed and State permitting is underway for the replacement of the Mid-Town seawall from north of Royal Palm Way to south of Gulfstream Road.

4. Work with State and Federal agencies and governments to implement projects to protect our shoreline.

Action: The Town is working with FDEP to update projects in the Beach Management Agreement to further protect our shoreline. The Town is working with the Corps to extend the Mid-Town Federal Shore Protection Project to the south following recording of the newly extended Erosion Control Line from Banyan Road to Southern Boulevard.

5. Continue maximal sand bypassing and inlet dredging.

Action: The Sand Transfer Plant has bypassed more than 100,000 cubic yards of sand in 2021. The Town has been working with the Corps in preparation for the dry beach placement of approximately 400,000 cubic yards of inlet-dredged sand beginning in January 2022.

ANTICIPATED 2022 SHORE PROTECTION BOARD ACTIONS

The goals currently being addressed in 2021 are expected to continue in 2022. With three (3) of the seven (7) Shore Protection Board positions to be filled with new appointees, it is expected that will necessitate some additional educational and informational sessions. The first meeting in January 2022 always includes a presentation of the sediment budget with the short term and long term shoreline and volumetric changes of our beaches.

cc: Jay Boodheshwar, Deputy Town Manager
H. Paul Brazil, P.E., Director of Public Works
Patricia Strayer, P.E., Town Engineer