

**AGENDA
TOWN OF JUPITER ISLAND
BEACH PROTECTION DISTRICT MEETING
WEDNESDAY, APRIL 17, 2024
ISLAND ROOM – TOWN HALL – 2 BRIDGE ROAD
(IMMEDIATELY FOLLOWING THE TOWN COMMISSION REGULAR MEETING)**

1. Consent Agenda

Category A- To be reviewed and approved (as is or as edited) by the Town Commission

- a. Minutes of the March 21, 2024, Beach Protection District Meeting
- b. Beach Cleanup Report

2. Work Authorization Annual Physical Monitoring (GBA)

3. Beach Project Update*

4. Biological Monitoring Presentation - Pinnacle Ecological*

5. Beach Status*

6. Other Items*

** No advanced materials provided*

Town Commission

Penny Townsend, Mayor
Marshall Field, VI, Vice Mayor
Anne Scott, Commissioner
Patricia Warner, Commissioner
Joseph Taddeo, Commissioner

Town Staff

Town Manager, Robert Garlo
Town Attorney, Thomas J. Baird
Town Clerk, Kimberly Kogos

STATE MANDATED STATEMENT

If a person decides to appeal any decision made by the board, agency, or commission with respect to any matter considered at such meeting or hearing, he will need a record of the proceedings, and that, for such purpose, he may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. Any person requiring a special accommodation at this meeting because of a disability or physical impairment should contact the Town prior to the meeting. Please contact the Town Hall, 2 Bridge Road, Hobe Sound, FL 33455, telephone (772) 545-0103.

**MINUTES
TOWN OF JUPITER ISLAND
BEACH PROTECTION DISTRICT MEETING
MARCH 21, 2024**

TIME: Thursday, March 21, 2024 – Immediately following the Town Commission Meeting
PLACE: Town Hall Island Room – 2 Bridge Rd., Hobe Sound, FL
PRESENT: Mayor Penny Townsend, Vice Mayor Marshall Field VI, Commissioner Anne Scott, Commissioner Patricia Warner (Remotely), Commissioner Joseph Taddeo, Town Manager Robert Garlo, Beach Protection District Director John Duchock, Town Attorney Thomas Baird, IT Director Bill Sutton, and Town Clerk Kimberly Kogos.

Mayor Townsend called the meeting to order at 3:11 pm

1. Consent Agenda – Category A

Category A- To be reviewed and approved (as is or as edited) by the Town Commission

- a. Minutes of the February 13, 2024, Beach Protection District Meeting
- b. Beach Cleanup Report

MOTION: *Scott/Taddeo moved to approve the Consent Agenda as presented.*

ACTION: *Motion passed 5-0.*

2. Future Beach District Contract Service Needs (RFP.ITB/RFQ)

Director Duchock provided an update regarding anticipated contracting needs for the Beach Protection District for fiscal year 2024. With each potential contract, he provided an anticipated award date along with the estimated cost range.

3. Beach Project Update*

Director Duchock provided an update of this year's anticipated beach project. He explained that permits are in hand for the next project, and design plans and specifications have been drafted by the Town's project consultant (ATM). He added that the advertising and review/selection phase will begin shortly in April/May followed by contract authorization in June/July 2024. Going forward, construction could begin as early as November 1, 2024 and continue through April 2025.

4. Beach Status*

Director Duchock stated that turtle nesting season has begun with 31 Leatherback nests as of March 20, 2024. He explained that beach activity has been fairly mild and there are no active hotspots although potential hotspot areas include 147-161 North Beach and 265-334 South Beach. He noted there has been some mild erosion over the past thirty days.

5. Other Items*

There were no other items discussed.

Mayor Townsend adjourned the meeting at 3:35 pm.

Respectfully submitted,

Kimberly Kogos, Town Clerk



TOWN OF JUPITER ISLAND

Public Works Department

12921 S.E. Suzanne Dr.

Post Office Box 7

Hobe Sound, FL

33475-0007

Town of Jupiter Island Public Works Department

Beach Cleanup, March 2024

The Public Works Department completed the fifth beach cleanup for the 2023-2024 season in February. Areas covered spanned from the Fish and Wildlife parking lot to the Parking Lot in the north to Blowing Rocks Preserve in the south. Approximately 8.8 miles of beach are covered during each cleanup, collecting all manmade material larger than a penny. Debris is then transported by small trucks to Coastal Recycling Drive for disposal. Work is performed by the Public Works Department.

During this cleanup, crews found very light debris accumulation scattered throughout the beach. Debris totaled approximately 1000 lbs. and consisted primarily of floating debris and light, blown items that had become entangled within the seaweed, both surf and wind were found to be light. The remnants from cleanup of a wrecked sailboat were scattered as the vessel was broken up by wave action and various provisions and materials associated with this wreck were collected when encountered. Additionally, 1800 lbs. of lumber/wood and miscellaneous other manmade materials were found and disposed of. Four seabirds were found and buried, and one syringe was encountered during the cleanup and reported to Public Safety for collection.

Three men utilizing ATVs and on foot covered all areas over three days. Particular attention was paid to collecting hazardous debris during the cleanup to ensure a safe experience for our seasonal residents and families. Extra care was taken to ensure that any broken glass or sharp objects were collected and the surrounding sand carefully inspected for any remaining sharps. Public Works conducted this work in a professional and careful manner, using existing points of access, with little impact to the beach and dune areas.

Month	Man-hours	Debris Volume (lbs.)
October 2023	144 Man-hours	2,150 lbs.
November 2023	60 Man-hours	1,550 lbs.
December 2023	96 Man-hours	1,800 lbs.
January 20204	45 Man-hours	1,800 lbs.
February 20204	66 Man-hours	1,700 lbs.
March, 2024	62 Man-hours	2,800 lbs.
Total	473 Man-hours	11,800 lbs.

TOWN OF JUPITER ISLAND

MEMORANDUM

TO: Mayor & Town Commission

THROUGH: Robert Garlo, Town Manager

CC: Kimberly Kogos, Town Clerk

FROM: John Duchock, Asst. Town Manager/Beach District Director

RE: Agenda Item No. 2 - Approval of Annual Physical Monitoring Survey
(Gahagan & Bryant Associates, Inc.)

DATE: 4/5/2024

Background:

Under the Continuing Services Contract, the Town utilizes its consultants to perform specific work tasks in support of the Beach District's engineering and environmental support needs. Gahagan & Bryant Associates, Inc. (GBA) provides annual physical monitoring survey services and related reports as required by the Joint Coastal Permit issued by the State and Federal regulatory agencies. Under Task Order No. 24.2, GBA will perform topographic and hydrographic surveys along fifty-nine (59) beach profiles between R-68 and R-121, extending from the dune approximately 4,000 feet offshore at roughly 800-ft spacing. The Town's offshore borrow site will also be surveyed as part of this work effort. Additionally, surveys will be performed for the length of the dune restoration project between 601 and 619 South Beach Road (R-126 to R-127). All work will be conducted following accepted State and USACE standards. Survey data and maps will be furnished by GBA, along with a summary report documenting the changes in beach volume and shoreline position. This report is utilized by the State and the Town to understand the performance of the beach nourishment program and help plan for future beach nourishment needs.

Recommendation:

Town staff is seeking Commission approval and authorization for the Town Manager to execute Task Order No. 24.2 for completion of the Annual Physical Monitoring Survey by Gahagan & Bryant Associates in the amount of \$56,898.00.

Gahagan & Bryant Associates, Inc.
3802 W. Bay to Bay Blvd., Suite B-22
Tampa, Florida 33629
(813) 831-4408 Fax (813) 831-4216
info@gba-inc.com



April 5, 2024

Mr. John Duchock, PE
Beach District Manager
Town of Jupiter Island
2 Bridge Road
Hobe Sound, FL 33455

**RE: Scope of Services and Fee Proposal
In Support of the Jupiter Island Beach Restoration Project
2024 Annual Summer Beach Profile Survey**

Dear John,

Below please find the requested scope of work and fee schedule for the 2024 annual summer beach profile survey in support of the Jupiter Island Beach Restoration Project. The task will be performed on a lump-sum basis. The estimated proposed costs have been quoted, as detailed below.

Task 24.2) 2024 Summer Beach Profile & Borrow Site Survey

Topographic and hydrographic surveys shall be performed along fifty(50) beach profiles extending from the dune to approx. 4,000' offshore. The profiles are at an 800 foot spacing beginning at the Hobe Sound Wildlife Refuge parking lot and extending south to the Blowing Rocks Preserve. An additional nine(9) profiles will be surveyed from R-68 to R-76, north of the traditional survey area, to encompass the required 5,000' coverage north of the extended fill template footprint. Fourteen beach profiles at 100' spacing will also be performed south of the Blowing Rocks Preserve to document the beach condition in the 600 block. The surveys will be performed during the month of July to provide consistency with prior annual surveys and to provide for quality bathymetric data during the calmer summer sea state. The Town's Borrow Site B and Expansion Area will also be surveyed at 200' line spacing.

Bathymetric surveys will be performed by employing a fully automated hydrographic survey system, operated from a shallow draft survey vessel. Navigation and positioning for the offshore survey will be accomplished using an RTK Global Positioning System. All data will be recorded on the hard disk drive for post survey data reduction. Bar check calibration of the fathometer will be taken at the start and end of each survey day. Local water surface elevations will be determined daily and will be utilized as a quality control check of the RTK equipment set up. The survey data will be collected in the NAVD88 datum. The bathymetric survey will be performed by procedures meeting USACE standards.

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The survey data will be processed and input into a DTM and contours will be plotted. Survey mapping will be certified by a Florida registered land surveyor. The data shall be provided in plan view (with a plot of the bathymetric soundings and contours) and in cross-section overlain over previous surveys, and in electronic format in Adobe PDF and ASCII – XYZ formats.

A survey report shall be prepared documenting shoreline changes and erosion\accretion trends. Volumetric computations will be performed to document the erosion\accretion patterns over the entire survey area. The volumetric calculations will be broken down by station into the five regions as documented during past surveys. The position of the shoreline will be tabulated at each beach profile station. Tables and graphs of the volume and shoreline data will be prepared and a summary report will be produced documenting erosion\accretion trends, shoreline changes, and long term annual erosion rates.

Field Work & Data Processing.....	\$39,136.00
Volumes and Shoreline Report.....	\$17,762.00
Task 24.2 - Annual Beach Profile & Borrow Site Surveys.....	\$56,898.00

The attached spreadsheet provides a breakdown of the estimated requisite labor and expenses. We trust that these quotes meet with your approval. Should you have any questions or require any additional information regarding this matter, please do not hesitate to call.

Best regards,

A handwritten signature in black ink that reads "Clay Bryant". The signature is written in a cursive, flowing style.

Clay M. Bryant, P.E.

Jupiter Island Beach Restoration Program

Task 24.2 - 2024 Summer Beach Profile & Borrow Site Surveys

LABOR:

Sr. Associate
Professional Surveyor/Mapper
Engineer II
Engineer I
Technician II
Technician I
Sr. Technician/Vessel Captain
CADD Operator

Field Data Collection	Data Processing & Mapping	Volume & Shoreline Computations
0	0	8
0	2	0
0	0	80
0	16	8
58.5	40	0
81	0	0
31.5	0	0
0	52	32

	Unit	Unit Cost	Total
8	Manhours	\$ 266.00	\$2,128.00
2	Manhours	\$ 209.00	\$418.00
80	Manhours	\$ 141.00	\$11,280.00
24	Manhours	\$ 109.00	\$2,616.00
99	Manhours	\$ 101.00	\$9,948.50
81	Manhours	\$ 77.00	\$6,237.00
32	Manhours	\$ 136.00	\$4,284.00
84	Manhours	\$ 101.00	\$8,484.00
Total Labor:			\$45,395.50

EQUIPMENT:

Survey Level, Rods, Tools, Tapes
Trimble RTK GPS System
27' Survey Vessel Fully Founded
Computer, Plotter, Software
ATV
4x4 Truck
Survey Van,SUV

7	0	0
7	0	0
2.5	0	0
2.5	5	10
4.5	0	0
4.5	0	0
9	0	0

7.0	Day	\$ 30.00	\$210.00
7.0	Day	\$ 200.00	\$1,400.00
2.5	Day	\$ 1,150.00	\$2,875.00
17.5	Day	\$ 25.00	\$437.50
4.5	Day	\$ 75.00	\$337.50
4.5	Day	\$ 95.00	\$427.50
9.0	Day	\$ 75.00	\$675.00
Total Equipment:			\$6,362.50

EXPENSES:

Crew Per Diem
Lodging
Supplies, misc.
Vessel fuel & supplies & dockage
Fuel

19	0	0
17	0	0
100	0	0
1000	0	0
400	0	0

19	Manday	\$69.00	\$1,311.00
17	Manday	\$137.00	\$2,329.00
			\$100.00
			\$1,000.00
			\$400.00
Total Expenses:			\$5,140.00

Survey Total: \$56,898.00