



FLORIDA DEPARTMENT OF Environmental Protection

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Ron DeSantis
Governor

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Noah Valenstein
Secretary

October 9, 2019

Angie Dunn, Chief
Environmental Branch
Jacksonville District
U.S. Army Corps of Engineers
701 San Marco Blvd.
Jacksonville, Florida 32207

and

Charlie Hunsicker
Manatee County
Parks and Natural Resources Department
5502 33rd Ave Dr. W
Bradenton, Florida 34209

c/o

Michelle Pfeiffer
APTIM
2481 NW Boca Raton Blvd.
Boca Raton, Florida 33431

Permit Modification No. 0039378-018-JN
Permit No. 0039378-010-JC, Manatee County
Manatee County Beach Nourishment Project

Dear Ms. Dunn, Mr. Hunsicker and Ms. Pfeiffer:

Your request to modify Permit No. 0039378-010-JC was received on July 2, 2019 and has been reviewed by Florida Department of Environmental Protection (Department) staff. The proposed permit modification is to incorporate a Biological Monitoring Plan for the Central Beach Project; to authorize another one-time use of the 2013 AMI Borrow Area 1; and to authorize the one-time placement on the Coquina Beach template using the borrow area that was previously permitted in Permit No. 00281452-005-JN. The General Conditions, which are applicable to Manatee County,

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were inadvertently left out of Permit No. 0039378-016-JN, will be included. Updates will also be made to the water quality monitoring conditions, the physical monitoring conditions and the fish and wildlife protection conditions.

PERMIT HISTORY

On August 28, 2013, The Department issued Permit No. 0039378-010-JC to the U.S. Army Corps of Engineers (Corps) for the Manatee County Beach Nourishment Project. The permit authorized the Corps to place beach compatible sand along 4.7 miles of shoreline of Anna Maria Island utilizing an offshore borrow area as a sand source. A Variance for a mixing zone, measuring 200 meters offshore and 2,000 meters down current was requested at the time of application. Since there was insufficient supporting data to justify the size of the proposed mixing zone, the Variance request was later withdrawn.

For additional background, please see the *Consolidated Notice of Intent to Issue Joint Coastal Permit and Authorization To Use Sovereign Submerged Lands* for Permit No. 0039378-010-JC at the following website:

ftp://ftp.dep.state.fl.us/pub/ENV-PRMT/manatee/issued/0039378_%20Anna%20Maria%20Nourishment/010-JC%20Manatee%20County%20Nourishment/

On November 26, 2013, the Department issued Modification No **0039378-011-JN**, which revised Permit No 0039378-010-JC to extend the mixing zone for the first turbidity event only.

On March 22, 2016, the Department issued Modification No **0039378-016-JN**, which added Manatee County as a Co-Permittee.

STAFF ASSESSMENT AND JUSTIFICATION

Biological Monitoring Plan

The modification incorporates a Department approved Hardbottom Biological Monitoring Plan (HBMP), dated August 2019, as a binding attachment to the Permit. Though impacts to resources are not expected, inclusion of the nearshore hardbottom and mitigative artificial reef biological monitoring set forth in the HBMP provides the Department with reasonable assurance that, if they occur, any project related unpermitted direct and/or secondary adverse impacts to hardbottom or mitigative reef resources would be documented so they may be offset by mitigation. Specific Conditions 32 and 33 have been revised to incorporate the approved HBMP specific monitoring and reporting required by the HBMP and clarify impact requirements (if they occur).

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Additional One Time Use of the 2013 AMI Borrow Area 1

The modification was requested to allow the federally authorized (“Central Beach”) project to include an additional one-time use of the previously authorized borrow area. The Department’s review indicated that the one-time only limitation on dredging this borrow area was not a consequence of geotechnical, physical or resource specific concerns. Based upon the need to construct the supplemental funding project and the limitation to only dredge the remaining material within the previously approved borrow area the Department will authorize the continued use of the borrow area.

Authorization to fill the Coquina Beach Segment and to dredge both the 2013 AMI Borrow Area II and the 2008 AMI Borrow Area (previously authorized by Permit No 0281452-001-JC)

Anna Maria Island, located in Manatee County, Florida, experiences historic chronic beach erosion. In response to this erosion, two established beach nourishment projects are maintained on the island: the federally authorized Central Beach Nourishment Project (R-12 to R-36) and the locally sponsored Coquina Beach Nourishment Project (R-33 to R-41 +305). Through supplemental federal funding, the Central Beach Nourishment project has been designated \$14.3 million, with a 30-year period for cost-share reimbursement. The Corps must construct the project on their expedited schedule, currently scheduled for January 2020, or risk losing the funding. At the request of the County, the Corps plans to incorporate the Coquina Beach project into the bidding of the Central Beach project. These projects were constructed back-to-back in 2014 using the same dredging contractor, reducing costs by millions of dollars by eliminating a separate dredge mobilization fee. The County and the Corps are coordinating combined construction of these projects in early 2020 to maximize cost savings again. Since the previous permit for the Coquina Beach Project (Permit No. 0281452-001-JC) has expired, the Department recommended that Permit No. 0039378-010-JC for the Central Project also be modified to allow a one-time construction of the non-federal Coquina Beach Nourishment Project using the previously permitted Passage Key Inlet borrow areas. The two project templates overlap between R- 33 and R-36, for the purposes of the upcoming event, the template will use the Central Beach template at R-33 and adopt the Coquina Beach template from R-34 to R-36.

Staff has determined that the fill material to be obtained from the borrow areas is similar to the native beach sediment in terms of color, grain size, sorting, and shell content and that the silt content meets Department standards. Placement of material in the beach project area is expected to maintain the general character and functionality of the coastal system. The Department’s review also indicated that limiting the authorization of the dredging of these borrow areas to one-time only was not a consequence of resource specific concerns. Based upon the need to construct the supplemental funding project and the limitation to only dredge the remaining material within the previously approved borrow area, the Department granted relief from the requirement of Permit No. 0281452-001-JC to establish an inlet management study/plan prior to subsequent use of the borrow areas. Consequently prior to future use (subsequent to the upcoming event) the establishment of an inlet management study/plan will still be required.

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Updating Specific Conditions

The Department and the Florida Fish & Wildlife Conservation Commission (FWC) have refined the language of Specific Conditions to reduce ambiguity. These changes clarify common misinterpretations and update requirements. As such, updates have been made throughout the permit.

Water Quality

A review of the limited turbidity monitoring data from the previous construction event supports the idea that the project may be constructed with less than a 1000-meter mixing zone. During the previous event intermediate turbidity samples were collected at 150 meters, 300 meters, 500 meters and 750 meters. An analysis of the intermediate turbidity samples indicated that none of those samples exceeded the compliance threshold of 29 NTU above background. However, because of the short duration and limited data to support a properly calibrated mixing zone less than 1000 meters, the Department will retain the 1000-meter mixing zone with intermediate monitoring.

Physical monitoring

The modification incorporates a Department approved Physical Monitoring Plan (PMP), dated July 2019, as a binding attachment to the Permit which replaces the previously approved PMP. The Department has updated the physical monitoring requirements requiring surveys be conducted one year after construction and continue every two years thereafter (i.e., one-year post-construction, three-year post-construction, five-year post-construction, etc.) until the next beach nourishment event or the expiration of the project design life, whichever occurs first. The monitoring area will include profile surveys at each of the Department Reference Monuments within the bounds of the beach fill area and along at least 5,000 feet of the adjacent shoreline.

The proprietary authorization shall be revised as follows (~~strike throughs~~ are deletions, underlines are additions):

PROPRIETARY AUTHORIZATION:

This activity also requires a proprietary authorization, as the activity is located on sovereign submerged lands held in trust by the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees), pursuant to Article X, Section 11 of the Florida Constitution, and Sections 253.002 and 253.77, F.S. The activity is not exempt from the need to obtain a proprietary authorization. The Board of Trustees delegated, to the Department, the responsibility to review and take final action on this request for proprietary authorization in accordance with Section 18-21.0051, F.A.C., and the Operating Agreements executed between the Department and the water management districts, as referenced in Chapter 62-113, F.A.C. This proprietary authorization has been reviewed in accordance with Chapter 253, Chapter 18-21 F.A.C., and the policies of the Board of Trustees.

As staff to the Board of Trustees, the Department has reviewed the project described above, and has determined that the one-time use of the ~~new~~ three offshore borrow area and the placement of sand on the beach qualify for a Letter of Consent to use sovereign, submerged lands, as long as

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the work performed is located within the boundaries as described herein and is consistent with the terms and conditions herein. Therefore, consent is hereby granted to Manatee County, the project's local sponsor, pursuant to Chapter 253.77, F.S., to perform the activity on the specified sovereign submerged lands.

The project description shall be revised as follows (~~strikethroughs~~ are deletions, underlines are additions):

The project consists of the placement of beach compatible sand along 4.7 miles of shoreline of Anna Maria Island, utilizing an offshore borrow area as a sand source. The beach fill template (Central Beach) will have a berm elevation of 4.0 feet North American Vertical Datum-~~88~~ (NAVD) and a foreshore construction slope of 1:14 (vertical:horizontal). The project also entails the **one-time only** placement of beach compatible sand along 1.1 miles of shoreline at Coquina Beach located on Anna Maria Island. The Coquina beach fill template will have a berm elevation of +4.0 feet NAVD, and a foreshore construction slope of 1:15 (vertical:horizontal).

The project location shall be revised as follows (~~strikethroughs~~ are deletions, underlines are additions):

The Central Beach nourishment site is located between DEP Reference Monuments R-12 and R-36, ~~along 4.7 miles of shoreline of Anna Maria Island,~~ in Manatee County, Sections 20, 29, 28, 33, 04 and 09, Township 34 South, Range 16 East, extending into the Gulf of Mexico, Class III Waters. The 2013 AMI Borrow Area I is located 0.7 miles offshore, at the northern end of Anna Maria Island, ~~in Manatee County, Section 18, Township 34 South, Range 16 East,~~ in the Gulf of Mexico, Class III Waters.

The Coquina Beach nourishment site is located between DEP Reference Monuments R-33 and R-41+305, in Manatee County, Sections 4, 9, 10 and 18, Township 34 and 35 South, Range 16 East. The 2013 AMI Borrow Area II and the 2008 AMI Borrow Area are located on the Passage Key Inlet ebb tidal shoal, approximately 2,000 feet offshore of the north end of Anna Maria Island, in the Gulf of Mexico, Class III Waters.

The general conditions for use by the Corps shall be remain as follows:

GENERAL CONDITIONS (for Army Corps of Engineers):

1. This permit, including its general and specific conditions, must be construed in light of the February 28, 2006 Interagency Coordination Agreement for Civil Works Projects (ICA) between the Department and the Corps. As recognized in the ICA, the Department

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has the authority to include reasonable conditions in this permit. All of the conditions in this permit, both general and specific, are enforceable to the extent sovereign immunity has been waived under 33 U.S.C. §§ 1323 and 1344(t). The ICA is incorporated herein by reference.

2. All activities approved shall be implemented as set forth in the drawings incorporated by reference and in compliance with the conditions and requirements of this document. The Corps shall notify the Department in writing of any anticipated changes in:
 - a) operational plans;
 - b) project dimensions, size or location;
 - c) ability to adhere to permit conditions;
 - d) project description included in the permit;
 - e) monitoring plans.

If the Department determines that a modification to the permit is required then the Corps shall apply for and obtain the modification. Department approval of the modification shall be obtained prior to implementing the change, unless the change is determined by the Department to reduce the scope of work from that authorized under the original permit, and will not affect compliance with permit conditions or monitoring requirements.

3. If, for any reason, the Corps does not comply with any condition or limitation specified herein, the Corps shall immediately provide the Department with a written report containing the following information:
 - a) a description of and cause of noncompliance;
 - b) the period of noncompliance, including dates and times;
 - c) impacts resulting or likely to result from the non-compliance;
 - d) steps being taken to correct the non-compliance; and
 - e) the steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

Compliance with the provisions of this condition shall not preclude the Department from taking any enforcement action allowed under state law with respect to any non-compliance.

4. The Corps shall obtain any applicable licenses, permits, or other authorizations which may be required by federal, state, local or special district laws and regulations. Nothing herein constitutes a waiver or approval of other Department permits or authorizations that may be required for other aspects of the total project.

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5. Nothing herein conveys to the Corps or creates in the Corps any property right, any interest in real property, any title to land or water, constitutes State recognition or acknowledgment of title, or constitutes authority for the use of Florida's sovereign submerged lands seaward of the mean high-water line or an established erosion control line, unless herein provided, and the necessary title, lease, easement, or other form of consent authorizing the proposed use has been obtained from the State.
6. Any delineation of the extent of a wetland or other surface water submitted as part of the application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this authorization or a formal determination under section 373.421(2), F.S., provides otherwise.
7. Nothing herein authorizes any entrance upon or activities on property which is not owned or controlled by the Corps or local sponsor or conveys any vested rights or any exclusive privileges.
8. This document or a copy thereof, complete with all conditions, attachments, modifications, and time extensions shall be kept at the work site of the authorized activity. The Corps shall require the contractor to review this document prior to commencement of the authorized activity.
9. The Corps specifically agrees to allow Department personnel with proper identification, at reasonable times and in compliance with Corps specified safety standards access to the premises where the authorized activity is located or conducted for the purpose of ascertaining compliance with the terms of this document and with the rules of the Department and to have access to and copy any records that must be kept; to inspect the facility, equipment, practices, or operations regulated or required; and to sample or monitor any substances or parameters at any location reasonably necessary to assure compliance. Reasonable time may depend on the nature of the concern being investigated.
10. At least forty-eight (48) hours prior to the commencement of authorized activity, the Corps shall submit to the Department a written notice of commencement of activities indicating the anticipated start date and the anticipated completion date.
11. If historic or archaeological artifacts such as, but not limited to, Indian canoes, arrow heads, pottery or physical remains, are discovered at any time on the project site, the Corps shall immediately stop all activities in the immediate area which disturb the soil and notify the Department and the State Historic Preservation Officer. In the event that unmarked human remains are encountered during permitted activities, all work shall stop in the immediate area and the proper authorities notified in accordance with Section 872.05, *Florida Statutes*.

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12. Within a reasonable time after completion of construction activities authorized by this permit, the Corps shall submit to the Department a written statement of completion. This statement shall notify the Department that the work has been completed as authorized and shall include a description of the actual work completed. The Department shall be provided, if requested, a copy of any as-built drawings required of the contractor or survey performed by the Corps.

The general conditions for use by the County shall be added as follows (underlines are additions):

GENERAL CONDITIONS (for Manatee County):

1. All activities authorized by this permit shall be implemented as set forth in the project description, permit drawings, plans and specifications approved as a part of this permit, and all conditions and requirements of this permit. The permittee shall notify the Department in writing of any anticipated deviation from the permit prior to implementation so that the Department can determine whether a modification of the permit is required pursuant to Rule 62B-49.008, F.A.C.
2. If, for any reason, the permittee does not comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department and the appropriate District office of the Department with a written report containing the following information: a description of and cause of noncompliance; and the period of noncompliance, including dates and times; and, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.
3. This permit does not eliminate the necessity to obtain any other applicable licenses or permits that may be required by federal, state, local or special district laws and regulations. This permit is not a waiver or approval of any other Department permit or authorization that may be required for other aspects of the total project that are not addressed in this permit.
4. Pursuant to Sections 253.77 and 373.422, F.S., prior to conducting any works or other activities on state-owned submerged lands, or other lands of the state, title to which is vested in the Board of Trustees, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees shall not be considered received until it has been fully executed.
5. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.

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6. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee. The issuance of this permit does not convey any vested rights or any exclusive privileges.
7. This permit or a copy thereof, complete with all conditions, attachments, plans and specifications, modifications, and time extensions shall be kept at the work site of the permitted activity. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
8. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel with proper identification and at reasonable times, access to the premises where the permitted activity is located or conducted for the purpose of ascertaining compliance with the terms of the permit and with the rules of the Department and to have access to and copy any records that must be kept under conditions of the permit; to inspect the facility, equipment, practices, or operations regulated or required under this permit; and to sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.
9. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall electronically submit to the Department, by email at JCPCCompliance@dep.state.fl.us, and the appropriate District office of the Department a written notice of commencement of construction indicating the actual start date and the expected completion date and an affirmative statement that the permittee and the contractor, if one is to be used, have read the general and specific conditions of the permit and understand them.
10. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, shipwreck remains or anchors, dugout canoes or other physical remains that could be associated with Native American cultures, or early Colonial or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section at (850)245-6333 or (800)847-7278, as well as the appropriate permitting agency office. Project activities shall not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, F.S.
11. Within 30 days after completion of construction or completion of a subsequent maintenance event authorized by this permit, the permittee shall electronically submit to the Department, by email at JCPCCompliance@dep.state.fl.us, and the appropriate District

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office of the Department a written statement of completion and certification by a registered professional engineer. This certification shall state that all locations and elevations specified by the permit have been verified; the activities authorized by the permit have been performed in compliance with the plans and specifications approved as a part of the permit, and all conditions of the permit; or shall describe any deviations from the plans and specifications, and all conditions of the permit. When the completed activity differs substantially from the permitted plans, any substantial deviations shall be noted and explained on as-built drawings electronically submitted to the Department, by email at JCPCompliance@dep.state.fl.us.

For clarity and comprehensiveness, the specific conditions in the existing permit shall be replaced in entirety; ~~striketroughs~~ and underlines will not be used. This minor modification, hereafter referred to as Permit No. 0039378-018-JN, supersedes Permit No. 0039378-010-JC.

The specific conditions shall be revised as follows (~~striketroughs~~ are deletions, underlines are additions):

The following Specific Conditions (1-36) shall be met by at least one of the co-Permittees, according to their respective construction obligations, as indicated below. When the U.S. Army Corps of Engineers (Corps) is administering the dredging contract, the Corps shall be responsible for Specific Conditions 1-15, 17- 24, 27- 31 and 35 (not including any out-year post-construction biological monitoring or beach maintenance) and Manatee County will be responsible for Specific Conditions 16, 25-26, and 32 -34. When Manatee County (County) is administrating the dredging contract, the County shall be responsible for Specific Conditions 1-36. Neither the Corps nor the County shall be responsible for meeting such conditions for work undertaken by the other pursuant to this permit.

1. The Permittee shall conduct a pre-construction conference to review the specific conditions and monitoring requirements of this permit with Permittee's contractors, the engineer of record, those responsible for protected species monitoring, staff representatives of the Fish and Wildlife Conservation Commission (FWC) and the JCP Compliance Officer (or designated alternate) prior to each construction event. In order to ensure that appropriate representatives are available, at least twenty-one (21) days prior to the intended commencement date for the permitted construction, the Permittee is advised to contact the Department, and the other agency representatives listed below:

JCP Compliance Officer
e-mail: [JCP Compliance@dep.state.fl.us](mailto:JCPCompliance@dep.state.fl.us)

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DEP Southwest District Office
~~Submerged Lands & Environmental~~
~~Resources~~ 13051 N. Telecom Parkway
Temple Terrace, Florida
33637 phone: 813-632-7600
fax: 813-632-7665 e-mail SW_ERP@dep.state.fl.us

FWC Imperiled Species Management Section
~~Florida Fish & Wildlife Conservation~~
~~Commission~~ 620 South Meridian Street
Tallahassee, Florida 32399-1600
phone: (850) 922-4330
fax: (850) 921-4369 or e-mail: marineturtle@myfwc.com

FWC Regional Biologist
Contact list: <http://myfwc.com/conservation/you-serve/wildlife/shorebirds/>

The Permittee is also advised to schedule the pre-construction conference at least a week prior to the intended commencement date. At least seven (7) days in advance of the pre-construction conference, the Permittee shall provide written notification, advising the participants (listed above) of the **agreed-upon** date, time and location of the meeting, and also provide a meeting agenda and a teleconference number. If the actual construction start date is different from the expected start date proposed during the preconstruction conference, at least 48 hours prior to the commencement of each dredging event, the Permittee shall ensure that notification is sent to the FWC indicating the actual start date and the expected completion date to ImperiledSpecies@myfwc.com. The Permittee shall also ensure that all contracted workers and observers are provided a copy of all permit conditions.

2. During all dredging operations, the Permittee shall require the dredging contractor to have electronic positioning equipment that continuously measures the vertical and horizontal location of the cutterhead, diagrams, dustpan or clamshell at all times during operations. The horizontal positioning equipment shall be installed on the dredge so as to monitor the actual location of the dredge equipment and be interfaced with the depth monitoring device. This equipment shall provide a permanent record of the equipment's position referenced to State Plane Coordinates and NAVD88. As a part of the final report the Permittee shall provide a daily record of the position of the dredge equipment that includes the dredge area limits with actual and maximum authorized dredge depth referenced to state plane coordinates and NAVD88. Vertical and horizontal accuracy of the

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positioning equipment shall also be reported.

3. All reports or notices relating to this permit shall be sent to the Department's JCP Compliance Officer (e-mail address: JCP.Compliance@dep.state.fl.us), unless otherwise specified in the specific conditions.
4. The Permittee shall not store or stockpile tools, equipment, materials, etc., within littoral zones or elsewhere within surface waters of the state without prior written approval from the Department. Storage, stockpiling or access of equipment on, in, over or through seagrass (or other aquatic vegetation) beds or wetlands is prohibited unless within a work area or ingress/egress corridor specifically approved by this permit. Anchoring or spudding of vessels and barges within beds of aquatic vegetation or over hardbottom areas is also prohibited.
5. The Permittee shall not conduct project operations or store project-related equipment in, on or over dunes, or otherwise impact dune vegetation, outside the approved staging, beach access and dune restoration areas designated in the permit drawings.
6. ~~In the event that the Manatee County, the local sponsor for this project, does not conduct all necessary marine turtle protection and monitoring requirements, the Permittee is still responsible for those marine turtle protection measures specified by the applicable U. S. Fish and Wildlife Service (FWS) Biological Opinion and the local sponsor agreement for this project.~~

Pre-Construction Submittals. No work shall be conducted under this permit until the Permittee has submitted the following at least 15 days (unless otherwise specified below) prior to the date of the pre-construction conference (required in specific condition 1):

- a. **Final Plans and Specifications:** an electronic copy of the final plans and specifications for this project, which must be consistent with the project description, conditions and approved drawings of this permit. The Permittee shall point out any deviations from the project description or the approved permit drawings, and any significant changes that would require a permit modification. The plans and specifications shall be accompanied by a letter indicating the project name, the permit number, the type of construction activity, the specific type of equipment to be used, the anticipated volume of material to be moved (if applicable) and the anticipated schedule. Further, the Permittee shall specify any anticipated

sites that will be used (such as staging areas, access areas, anchorage areas, etc.) and appropriate contact information for those facilities.

- b. **Benthic Resource Monitoring Qualifications.** To ensure that individuals conducting monitoring of benthic resources have appropriate expertise / experience in surveying hardbottom resources, the Permittee shall submit the names and qualifications of individuals performing biological monitoring at least 30 days prior to the initiation of monitoring tasks required by the approved Hardbottom Biological Monitoring Plan (per Specific Condition 33). Individuals performing biological monitoring shall be certified SCUBA divers, shall have a BS degree or higher in the study of marine biology or a comparable field, shall have scientific knowledge of local benthic marine hardbottom habitats and their flora and fauna, and shall have professional experience in conducting hardbottom monitoring. The Department will review this information and confirm that monitors are capable of meeting the requirements. The Department will provide written comments regarding any perceived deficits in qualifications or experience. If additional monitoring team(s) are subcontracted, or new staff are added to the monitoring team, proposed changes and qualifications of individuals shall be submitted at least 30 days prior to the proposed individuals participating in any HBMP required monitoring.
- c. **Pre-construction nearshore hardbottom monitoring results.** All raw data collected during the pre-construction (baseline) nearshore hardbottom monitoring event (see Section 5.2 of the HBMP).
- d. **Turbidity Monitoring Qualifications:** The names, credentials (demonstrating experience and qualifications) and contact information for the individuals who will conduct the turbidity monitoring. Turbidity monitors shall have prior training in water quality monitoring and experience in turbidity monitoring for major dredging projects. The turbidity monitors shall be independent of the design engineer and the dredging/construction contractor. .
- e. **Turbidity Scope of Work:** A Scope of Work for the turbidity monitoring shall be provided to ensure that the right equipment is available and that monitoring protocols will be sufficient to conduct the monitoring correctly at any location, and under any conditions.
- f. **Draft turbidity sampling map.** An example of the geo-referenced map that will be provided with turbidity reports, including aerial photography and the boundaries for benthic resources (pursuant to Specific Condition 36).

- g. *Fish & Wildlife Monitoring Qualification:* To ensure that individuals conducting monitoring of fish and wildlife resources have appropriate qualifications, the Permittee shall provide documentation demonstrating expertise / experience in surveying the types of resources that are present in the project. The Department and FWC will review this information for confirmation that the monitors are capable of meeting the requirements in Specific Conditions 7 through 26. This documentation shall include the following:
- i. *Marine Turtle Protection:* A list of the names and permit numbers for the Marine Turtle Permit Holders;
 - ii. *Shorebird Protection:* A list of Bird Monitors with their contact information, summary of qualifications including bird identification skills, and avian survey experience, proposed locations of shorebird survey routes, and the locations of travel routes.

The following conditions are required to minimize impacts to marine turtles:

7. ***Manatee, Marine Turtle, and Shorebird Protection Conditions.*** During all construction authorized by this permit, and based on the authorization of incidental take by the National Marine Fisheries Service (NMFS) and the FWS, in accordance with Chapters 161.041 (5) and 379.2431 (1), F.S., the Permittee shall comply with the following conditions intended to protect manatees, marine turtles and shorebirds from direct project effects:
- a. All personnel associated with the project shall be instructed The Permittee shall instruct all personnel associated with the project about the presence of marine turtles, manatees and manatee speed zones, and the need to avoid collisions with (and injury to) these protected marine species. The Permittee shall be responsible for harm to these resources and shall require their contractors to advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act and for killing marine turtles, which are protected under the Endangered Species Act and the Florida Marine Turtle Protection Act.
 - b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides

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less than a four-foot clearance from the bottom. All vessels shall follow routes of deep water whenever possible.

- c. Siltation or turbidity barriers, if used, shall be made of material in which manatees and marine turtles cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid entanglement or entrapment. Barriers must not impede manatee or marine turtle movement.
- d. ~~All on-site project personnel are responsible for observing water-related activities for the presence of marine turtles and manatee(s).~~ The Permittee shall require all on-site project personnel to observe water-related activities for the presence of marine turtles and manatee(s). **All in-water operations, including vessels, shall be shutdown if a marine turtle or manatee comes within 50 feet of the operation.** For unanchored vessels, operators shall disengage the propeller and drift out of the potential impact zone. If drifting would jeopardize the safety of the vessel then idle speed may be used to leave the potential impact zone. Activities shall not resume until the animal(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the animal(s) has not reappeared within 50 feet of the operation. Animals shall not be herded away or harassed into leaving.
- e. Any collision with or injury to a marine turtle or manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922, and to FWC at ImperiledSpecies@myFWC.com. ~~Collision and/or injury should also be reported to the FWS in Jacksonville at 1-904-731-3336.~~ Any collision with (and/or injury to) a marine turtle shall also be reported immediately to the Sea Turtle Stranding and Salvage Network (STSSN) at SeaTurtleStranding@myfwc.com.
- f. Temporary signs concerning manatees shall be posted prior to and during all in- water project activities at sufficient locations to be regularly and easily viewed by all personnel engaged in water-related activities. All signs ~~are to~~ shall be removed by the Permittee upon completion of the project. ~~Two~~ temporary signs that have already been approved for this use by the FWC ~~must~~ shall be used at each location. One sign which reads “*Caution Boaters – Watch for Manatees*” ~~must~~ shall be posted. A second sign measuring at least 8 ½" by 11" shall ~~explaining~~ the requirements for “Idle Speed/No Wake” and the ~~shut down~~

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~~shutdown~~ of in-water operations ~~must be posted in a location prominently visible to all personnel engaged in water related activities.~~ Signs already approved by the FWC These signs can be viewed at MyFWC.com/manatee. Questions concerning these signs can be sent to ImperiledSpecies@myFWC.com ~~the email address listed above.~~

- g. All personnel associated with the project shall be instructed about the potential presence of ~~nesting shorebirds~~ protected species and the need to avoid Take of (including injury and disturbance to) these protected species.
- h. **Beach Driving.** All vehicles shall be operated in accordance with the FWC's Best Management Practices for Operating Vehicles on the Beach (<http://myfwc.com/conservation/you- conserve/wildlife/beach-driving/>). Specifically, the vehicle must be operated at a speed <6 mph and run at or below the high-tide line.

Fish and Wildlife Protection Conditions for Dredging Activities:

- 8. **Hopper Dredging.** In the event a hopper dredge is utilized, the following requirements shall be met in addition to the Terms and Conditions of the applicable NMFS Regional Biological Opinion for Hopper Dredging (Gulf of Mexico):
 - a. Handling of captured sea turtles or sea turtle shall be conducted only by persons with prior experience and training in these activities ~~and~~ who are duly authorized to conduct such activities through a valid Marine Turtle Permit issued by the FWC, pursuant to Chapter 68E-1, F.A.C., or as a National Marine Fisheries Service (NMFS)- approved marine turtle observer, or by persons who have submitted documentation to the Corps of meeting the FWC Marine Turtle Conservation Guidelines specific to stranding activities. The Corps shall forward documentation of these qualifications to FWC for review, as required in Specific Condition 6. Corps staff or their designee who transport live or dead marine turtles or marine turtle parts into, out of, or within, the state of Florida shall notify FWC in writing, specifying the number of transported specimens, species of turtle, type of specimen, and the destination after transport is complete. Before transport, if the turtle is believed to be alive, Corps staff or their designee shall coordinate with FWC to determine the appropriate facility to receive live marine turtles for rehabilitation. Corps staff or their designee shall abide by the State of Florida's

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FWC Marine Turtle Conservation Guidelines
(<https://myfwc.com/media/3133/fwc-mtconservationhandbook.pdf>
) specific to transport of live stranded turtles.

- b. ~~Dredging pumps shall be disengaged by the operator, or the draghead bypass valve shall be open and in use when the dragheads are not firmly on the bottom, to minimize impingement or entrainment of sea turtles within the water column. This precaution is especially important during the cleanup phase of dredging operations.~~ In order to minimize impingement or entrainment of marine turtles within the water column, when initiating dredging, suction through the drag heads shall be allowed just long enough to prime the pumps, then the drag heads shall be placed firmly on the bottom. When lifting the drag heads from the bottom, suction through the drag heads shall be allowed just long enough to clear the lines, and then shall cease while maneuvering or during travel to/from the placement area. When possible, dredging pumps shall be disengaged by the operator when the drag heads are not firmly on the bottom
- c. A state-of-the-art rigid deflector draghead shall be used on all hopper dredges, in all channels, at all times of the year.
- d. The Sea Turtle Stranding and Salvage Network (STSSN) Coordinator shall be notified at Allen.Foley@myfwc.com at the start-up and completion of hopper dredging operations. In the event of capturing or recovering sea turtles or sea turtle parts, the STSSN should be contacted at SeaTurtleStranding@myfwc.com.
- e. Relocation trawling or non-capture trawling (if conducted) shall be implemented in accordance with the applicable NMFS Biological Opinion and Incidental Take authorization. Any activity involving the use of nets to harass and/or to capture and handle marine turtles in Florida waters requires a Marine Turtle Permit from FWC.
 - i. The Permittee or their contractor shall e-mail (MTP@MyFWC.com) weekly reports to the Imperiled Species Management section on Friday each week that trawling is conducted in Florida waters. These weekly reports shall include: the species and number of turtles captured in Florida waters, general health, and release information. A summary of all trawling activity (including non-capture trawling) shall be submitted to

MTP@myfwc.com by January 15 of the following year or at the end of the project. The summary shall be provided on the (FWC-provided Excel spreadsheet (available at <http://myfwc.com/media/3168/Trawl-Report-Template.pdf>) of all trawling activity, including non-capture trawling, and shall list all turtles captured in Florida waters, including all measurements, the location of captures (latitude and longitude (in decimal degrees) of captures and the location of tow start-stop points (latitude and longitude in decimal degrees), and times for the start-stop points of the tows, including those tows on which no turtles are captured, shall be submitted to MTP@myfwc.com by January 15 of the following year or at the end of the project.

Fish and Wildlife Protection Conditions for Nearshore and Beach Placement of Dredge Material:

9. ***Beach Maintenance.*** All derelict concrete, metal, and coastal armoring material and other debris shall be removed from the beach to the maximum extent practicable prior to any material placement. If debris removal activities will take place during shorebird breeding or sea turtle nesting seasons, the work shall be conducted during daylight hours only and shall not commence until completion of daily seabird, shorebird or sea turtle surveys each day. All excavations and temporary alterations of the beach topography shall be filled or leveled to the natural beach profile prior to 9 p.m. each day unless otherwise authorized. The Permittee shall require their contractor and protected species monitors to inspect all work areas that have excavations and temporary alterations of beach topography each day, to determine which areas have deviations (such as depressions, ruts, holes and vehicle tracks) capable of trapping flightless shorebird chicks or marine turtle hatchlings. If so, the deviations shall be filled or leveled from the natural beach profile prior to 9:00 p.m. each day. The beach surface shall also be inspected subsequent to completion of the project, and all tracks, mounds, ridges or impressions, etc. left by construction equipment on the beach shall be smoothed and leveled. All debris, including derelict construction or coastal armoring material, concrete and metal, found on the beach placement site, shall be removed from the beach to the maximum extent practicable prior to any placement of fill material. If debris removal activities will take place during protected species nesting seasons, the work shall be conducted during daylight hours only, and shall not commence until completion of daily monitoring surveys.
10. ~~***Pre-Construction Meeting.***~~ A meeting between representatives of the

~~contractor, the FWS, the FWC, the permitted sea turtle surveyor and Bird Monitors, as appropriate, shall be held prior to commencement of work on projects. At least 10 business days advance notice must be provided prior to conducting this meeting. The meeting will provide an opportunity for explanation and/or clarification of the protection measures as well as additional guidelines when construction occurs during nesting season, such as staging equipment and reporting within the work area, as well as follow up meetings during construction.~~

~~11.10. **Nesting Seabird and Shorebird Protection Conditions.** *The term “shorebird” is used here to refer to all solitary nesting shorebirds and colonial nesting seabirds that nest on Florida’s beaches. These conditions are intended to avoid direct impacts associated with the construction of the project and may not address all potential take incidental to the operation and use related to this authorization. The Permittee shall adhere to the shorebird protection conditions during the shorebird breeding cycle, which includes nesting.*~~

- ~~a. Shorebird breeding season dates for this project area are February 15 through September 1 (note that while most species have completed the breeding cycle by September 1, flightless young may be present through September and must be protected if present).~~
- ~~b. Any parts of the project where “project activities” on the beach take place *entirely outside the breeding season*, do not require shorebird surveys. The term “project activities” includes operation of vehicles on the beach, movement or storage of equipment on the beach, sand placement or sand removal, and other similar activities that may harm or disturb shorebirds. Bird survey routes must be established and monitored throughout the entire breeding season in any parts of the project area where: 1) potential shorebird breeding habitat occurs, and 2) project activities are expected to occur at any time within the breeding season. Breeding season surveys shall begin on the first day of the breeding season or 10 days prior to project commencement (including survey activities and other pre-construction presence on the beach), whichever is later.~~
- ~~c. Bird surveys shall be conducted in all potential beach-nesting bird habitats within the project boundaries that may be impacted by construction or pre-construction activities. One or more shorebird survey routes shall be established by the Permittee to cover project areas which require shorebird surveys. These routes shall be determined in coordination with the FWC Regional Biologist prior to the initiation of construction. Routes shall not be modified without~~

prior notification to FWC.

- d. During the pre-construction and construction activities associated with the project, the Permittee shall ensure that surveys for detecting breeding activity and the presence of flightless chicks shall be completed on a daily basis by a qualified bird monitor. This shall be completed prior to movement of equipment, operation of vehicles, or other activities that could potentially disrupt breeding behavior or cause harm to the birds or their eggs or young. If all project activities are completed and all personnel and equipment have been removed from the beach prior to the end of the breeding season, route surveys shall continue to be conducted at least weekly through the end of the breeding season. If breeding or nesting behavior is confirmed by the presence of a scrape, eggs or young, the Permittee (or their designee) shall establish a 300-foot buffer around the site and shall notify the FWC Regional Biologist within 24 hours. The posts and materials for the shorebird buffer zones shall be removed once all breeding or nesting behavior has ceased.
- e. The Permittee shall require the Bird Monitor to conduct a shorebird education and identification program (and/or provide educational materials) with the on-site staff to ensure protection of precocial (mobile) chicks. All personnel are responsible for watching for shorebirds, nests, eggs and chicks. If the Bird Monitor finds that shorebirds are breeding within the project area, the Permittee shall place and maintain a bulletin board in the construction staging area with the location map of the construction site showing the bird breeding areas and a warning, clearly visible, stating that “NESTING BIRDS ARE PROTECTED BY LAW INCLUDING THE FLORIDA ENDANGERED AND THREATENED SPECIES ACT AND THE STATE and FEDERAL MIGRATORY BIRD ACTS”.

~~Nesting seabird and shorebird (collectively referred to as shorebird) surveys shall be conducted by trained, dedicated individuals (Bird Monitor) with proven shorebird identification skills and avian survey experience. A list of candidate Bird Monitors shall be provided to FWC, along with their contact information, summary of qualifications, including bird identification skills, and avian survey experience. This information shall be submitted to the FWC regional biologist (contact information attached) prior to any construction or hiring for shorebird surveys for revision and consultation. Bird Monitors shall use the following survey protocols:~~

- ~~a. Bird Monitors shall review and become familiar with the general~~

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~~information, employ the data collection protocol, and implement data entry procedures outlined on the FWC's Florida Shorebird Database (FSD) website (www.FLShorebirdDatabase.org). An outline of data to be collected, including downloadable field data sheets, is available on the website.~~

- ~~b. Breeding season varies by species. Most species have completed the breeding cycle by September 1, but flightless young may be present through September. The following breeding season date range is based on the best available information regarding ranges and habitat use by species:~~

~~All Gulf Coast counties: February 15—September 1~~

~~Breeding season surveys shall begin on the first day of the breeding season, or 10 days prior to project commencement (including surveying activities and other pre-construction presence on the beach), whichever is later. Surveys shall be conducted through August 31st, or until all breeding activity has concluded, whichever is later.~~

- ~~e. Breeding season surveys shall be conducted in all potential beach-nesting bird habitats within the project boundaries that may be impacted by construction or pre-construction activities. Portions of the project in which there is no potential for project-related activity during the nesting season may be excluded. One or more shorebird survey routes shall be established in the FSD website to cover these areas.~~
- ~~d. During the pre-construction and construction phases of the project, surveys for detecting breeding activity and the presence of flightless chicks shall be completed on a daily basis prior to movement of equipment, operation of vehicles, or other activities that could potentially disrupt breeding behavior or cause harm to the birds or their eggs or young.~~
- ~~e. Surveys shall be conducted by walking the length of the project area and visually surveying for the presence of shorebirds exhibiting breeding behavior, shorebird/seabird chicks, or shorebird/seabird juveniles as outlined in the FSD *Breeding Bird Protocol for Shorebirds and Seabirds*. Use of binoculars is required.~~
- ~~i. If an all-terrain vehicle or other vehicle is needed to cover large project areas, operators shall adhere to the FWC's Best~~

~~Management Practices for Operating Vehicles on the Beach
([http://myfwc.com/conservation/you-
conserve/wildlife/beach-driving/](http://myfwc.com/conservation/you-
conserve/wildlife/beach-driving/)).~~ Specifically, the vehicle

~~must be operated at a speed <6 mph and run at or below the high-tide line. The Bird Monitor shall stop at no greater than 200-meter intervals to visually inspect for breeding activity.~~

- ~~f. Once breeding is confirmed by the presence of a scrape, eggs, or young, the Bird Monitor shall notify the FWC Regional Species Conservation Biologist (contact information attached) within 24 hours. All breeding activity shall be reported to the FSD website within one week of data collection.~~

11. Shorebird Monitor Requirements.

- a. The Permittee shall ensure that nesting and breeding shorebird surveys are conducted by trained, dedicated individuals (Bird Monitors) with proven shorebird identification skills and avian survey experience.
- b. Bird Monitor(s) shall be required to review and become familiar with the general information, employ the data collection protocol, and implement data entry procedures outlined on the FWC's FSD website (<http://www.flshorebirddatabase.org> or [Florida Shorebird Database](#)). They shall use the data-collection protocol and implement data entry procedures as outlined in that website.
- c. The Permittee shall submit a list of Bird Monitors, with their contact information and a summary of qualifications, including bird identification skills and avian survey experience to the FWC Regional Biologist and JCPCCompliance@dep.state.fl.us, prior to any construction or shorebird surveys. The determination that the selected Bird Monitor(s) meet the required qualifications shall be coordinated between the Permittee and the FWC Regional Biologist. Once approved, the Permittee shall submit the names and contact information of the Bird Monitor(s) who have been approved by FWC to JCPCCompliance@dep.state.fl.us, prior to any construction or shorebird surveys. The Bird Monitor(s) shall meet the following minimum qualifications:
- i. Has previously participated in beach-nesting shorebird surveys in Florida (provide references or resume). Experience with previous projects must document the ability to 1) identify all species of beach-nesting birds by sight and sound, 2) identify breeding/territorial

behaviors, and find nests of shorebirds that occur in the project area, and 3) identify habitats preferred by shorebirds nesting in the project area.

- ii. Have a clear working knowledge of, and adhere to, the *Breeding Bird Protocol for Florida's Seabirds and Shorebirds*.
<https://publictemp.myfwc.com/crossdoi/shorebirds/resources.aspx>.
- iii. Have completed full-length webinars: Route-Surveyor Training and Rooftop Monitoring Training, including the annual refresher training. Training resources can be found on the *Florida Shorebird Database (FSD)* website.
<https://publictemp.myfwc.com/crossdoi/shorebirds/index.aspx>.
- iv. Familiar with FWC beach driving guidelines.
[\(https://myfwc.com/conservation/you-protect/wildlife/beach-driving/\)](https://myfwc.com/conservation/you-protect/wildlife/beach-driving/).
- v. Experience posting beach-nesting bird sites, consistent with *Florida Shorebird Alliance (FSA) Guidelines*.
<http://flshorebirdalliance.org/resources/instructions-manuals.aspx>
- vi. Has registered as a contributor to the FSD.

12. **Shorebird Survey Protocols.** Bird survey protocols, including downloadable field data sheets, are available on the [FSD website](#). All breeding activity shall be reported to the FSD website within one week of data collection. If the use of this website is not feasible for data collection, the FWC Regional Biologist shall be contacted for alternative methods of reporting. The Permittee shall ensure that the Bird Monitors use the following survey protocols:

- a. Surveys shall be conducted by walking the length of all survey routes and visually surveying for the presence of shorebirds exhibiting breeding behavior, shorebird chicks or shorebird juveniles, as outlined in the *FSD Breeding Bird Protocol for Shorebirds and Seabirds*. Use of binoculars (minimum 8x40) is required and use of a spotting scope may be necessary to accurately survey the area. If an ATV or other vehicle is needed to cover large survey routes, the Bird Monitor shall stop at intervals of no greater than 600 feet to visually inspect for breeding activity.
- b. Once breeding or nesting behavior is confirmed by the presence of a scrape, eggs or young, the Permittee (or their designee) shall notify the

FWC Regional Biologist within 24 hours.

- ~~1213.~~ ***Seabird and Shorebird Buffer Zones and Travel Corridors.*** The Permittee shall require the Bird Monitor(s) and Contractor(s) to meet the following:
- a. ~~The Bird Monitor(s) Within the project area, the Permittee shall establish a disturbance-free buffer zone around any location where shorebirds have been engaged in breeding behavior, including territory defense. A 300- foot-wide buffer shall be established around each nest or around the perimeter of each colonial nesting area. A 300-foot buffer shall also be placed around the perimeter of areas where shorebirds are seen digging nest scrapes or defending nest territories. All construction activities, movement of vehicles, stockpiling of equipment, and pedestrian traffic are prohibited in the buffer zone. Travel corridors shall be designated and marked outside the buffer areas for pedestrian, equipment or vehicular traffic. Is considered adequate based on published studies. However, a smaller, site-specific buffer may be implemented upon approval by the FWC Regional Species Conservation Biologist (contact information attached) as needed. All sources of human disturbance (including pedestrians, pets, and vehicles) shall be prohibited in the buffer zone.~~
The Bird Monitor(s) shall ensure that a disturbance-free buffer zone around any location where shorebirds have been engaged in breeding behavior, including territory defense. A 300- foot-wide buffer shall be established around each nest or around the perimeter of each colonial nesting area. A 300-foot buffer shall also be placed around the perimeter of areas where shorebirds are seen digging nest scrapes or defending nest territories. All construction activities, movement of vehicles, stockpiling of equipment, and pedestrian traffic are prohibited in the buffer zone. Travel corridors shall be designated and marked outside the buffer areas for pedestrian, equipment or vehicular traffic. Is considered adequate based on published studies. However, a smaller, site-specific buffer may be implemented upon approval by the FWC Regional Species Conservation Biologist (contact information attached) as needed. All sources of human disturbance (including pedestrians, pets, and vehicles) shall be prohibited in the buffer zone.
 - b. The Bird Monitor shall keep breeding sites under sufficient surveillance to determine if birds appear agitated or disturbed by construction or other activities in adjacent areas. If birds do appear to be agitated or disturbed by these activities, then the width of the buffer zone shall be increased immediately to a sufficient size to protect breeding birds.
 - c. ~~Reasonable and traditional~~ The Bird Monitor(s) shall ensure that reasonable and traditional pedestrian access should is not be blocked, in situations where breeding birds will tolerate pedestrian traffic. This is generally the case with lateral movement of beachgoers walking parallel to the beach at or below the highest tide line. Pedestrian traffic may also be tolerated allowed when breeding was initiated within 300 feet of an established beach access pathway. The Permittee The Bird Monitor(s) shall work with the FWC Regional Species Conservation Biologist to determine if pedestrian access can be accommodated without compromising nesting success. These site-specific buffers must be determined in coordination with the FWC Regional Biologist

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- d. ~~Designated buffer zones shall be marked~~ The Bird Monitor(s) shall ensure that the perimeters of designated buffer zones shall be marked according to FSA Posting Guidelines with posts, twine and FWC-approved signs stating “Do Not Enter, Important Nesting Area” or similar language around the perimeter, that includes the name and a phone number of the entity responsible for posting. Posts should shall not exceed 3 feet in height once installed. Symbolic fencing (twine, string or rope) should be placed between all posts at least 2.5 feet above the ground and rendered clearly visible to pedestrians. If pedestrian pathways are approved by the FWC Regional Species Conservation Biologist within the 300-foot buffer zone, these should be clearly marked. The posting shall be maintained in good repair until **no active nests, eggs, or flightless young are present** breeding is completed or terminated. Although solitary nesters may leave the buffer zone with their chicks, the posted area continues to provide a potential refuge for the family until breeding is complete. Breeding is not considered to be completed until all chicks have fledged.
- e. The Permittee shall ensure that no ~~No~~ construction activities, pedestrians, movement of vehicles, or stockpiling of equipment ~~shall be~~ are allowed within the buffer area.
- f. The Permittee shall ensure that the Bird Monitor(s) designate and mark travel corridors ~~Travel corridors shall be designated and marked~~ outside the buffer areas so as not to cause disturbance to breeding birds. Heavy equipment, other vehicles, or pedestrians may transit past breeding areas in these corridors. However, other activities such as stopping or turning shall be prohibited within the designated travel corridors adjacent to the breeding site.
- g. When flightless chicks are present within or adjacent to travel corridors, movement of construction related vehicles shall not transit through the corridor unless a be accompanied by the Bird Monitor is present to adequately monitor the travel corridor who shall to ensure no chicks are in the path of the moving vehicle. The Permittee shall also require the contractor with the oversight of the Bird Monitor(s), to level any and no tracks ruts or holes capable of trapping flightless chicks result.
- h. Notification. Any injury or death of a shorebird (including crushing eggs or young) resulting from project activities shall be reported immediately to the FWC Regional Biologist.

1314. To discourage nesting within the travel corridor, it is recommended that the Permittee should maintain some activity within these corridors on a daily basis, without disturbing any nesting shorebirds documented on site or interfering with sea turtle nesting, especially when those corridors are established prior to commencement of construction.
14. ~~**Notification.** If shorebird breeding occurs within the project area, a bulletin board shall be placed and maintained in the construction staging area with the location map of the construction site showing the bird breeding areas and a warning, clearly visible, stating that “NESTING BIRDS ARE PROTECTED BY LAW INCLUDING THE FLORIDA ENDANGERED AND THREATENED SPECIES ACT AND THE STATE and FEDERAL MIGRATORY BIRD ACTS”.~~
15. **Marine Turtle Nest Surveys and Relocation.** Sand placement may occur during the marine turtle nesting season, May 1 through October 31, provided the following marine turtle protection conditions are met, except where such work is prohibited by the managing agency or under applicable local land use codes.
16. For sand placement projects that occur during the period from May 1 through October 31, daily early morning (~~before 9 a.m.~~) surveys shall be conducted, and marine turtle eggs shall be relocated per the requirements below (a. to c.)(*Note: sea turtle monitors shall not enter posted shorebird buffer areas to conduct monitoring or to relocate nests.*).

Marine turtle nesting surveys shall be initiated 65 days prior to sand placement activities or by April 15, whichever is later, shall continue through September 30 or the end of the project, whichever is earlier, and shall comply with the following requirements:

- a. Nesting surveys and nest marking shall only be conducted by persons with prior experience and training in these activities and who are authorized to conduct such activities through a valid permit issued by FWC, pursuant to Chapter 68E-1, F.A.C. Please contact FWC’s Marine Turtle Management Program in Tequesta at MTP@myfwc.com for information on the permit holder in the project area. ~~Nesting surveys shall be conducted daily between sunrise and 9 a.m. (this is for all time zones). The contractor shall not initiate work until daily notice has been received from the marine turtle permit holder that the morning survey has been completed. Surveys shall be performed in such a manner so as to ensure that~~

~~construction activity does not occur in any location prior to completion of the necessary marine turtle protection measures. Daily nesting surveys shall be conducted beginning ½ hour prior to sunrise, and no construction activity may commence until completion of the marine turtle survey each day.~~

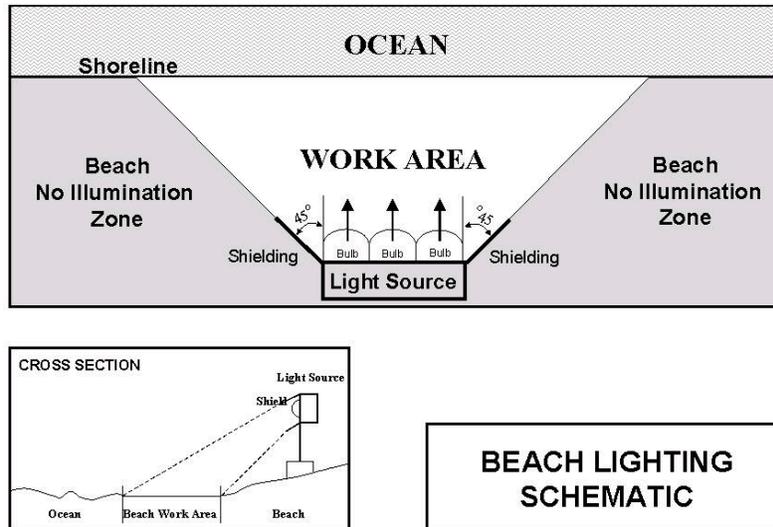
- b. Only those nests in the area where sand placement occurs shall be relocated. Nest relocation shall not occur upon completion of sand placement. Nests requiring relocation shall be moved no later than 9 a.m. the morning following deposition to a nearby self-release beach site, in a secure setting where artificial lighting will not interfere with hatchling orientation. The relocation site shall be determined in conjunction with and approved by FWC prior to nest relocations. Relocated nests shall not be placed in organized groupings. Relocated nests shall be randomly staggered along the length and width of the beach in settings that are not expected to experience daily inundation by high tides or known to routinely experience severe erosion and egg loss, or that are subject to artificial lighting. Nest relocations in association with construction activities shall cease when sand placement activities no longer threaten nests.
- c. Nests deposited within areas where construction activities have ceased or will not occur for 65 days, or nests laid in the nourished berm prior to tilling, shall be marked and left in place unless other factors threaten the success of the nest. The Marine Turtle Permit Holder shall install on-beach markers at the nest site to establish a minimum 5-foot radius around the approximate clutch location and shall also install a secondary marker at a point as far landward as possible to assure that the nest can be located should the on-beach marker be lost. ~~The turtle permit holder shall install an on-beach marker at the nest site and/or a secondary marker at a point as far landward as possible to assure that future location of the nest will be possible should the on-beach marker be lost.~~ No activity shall occur within this area nor shall any activities occur that could result in impacts to the nest. Nest sites shall be inspected daily to assure nest markers remain in place and the nest has not been disturbed by the project activity.

17. ***Marine Turtle or Nest Encounters.*** Upon locating a dead or injured ~~seamarine~~ turtle adult, hatchling or egg that may have been harmed or destroyed as a direct or indirect result of the project, the Permittee shall be responsible for notifying STSSN at SeaTurtleStranding@myfwc.com. Care

shall be taken in handling injured sea marine turtles or eggs to ensure effective treatment or disposition, and in handling dead specimens to preserve biological materials in the best possible state for later analysis. In the event a sea marine turtle nest is excavated during construction activities, the permitted person responsible for egg relocation for the project shall be notified immediately so the eggs can be moved to a suitable relocation site.

18. ***Equipment Storage and Placement.*** All construction pipes that are placed on the beach shall be located as far landward as possible without compromising the integrity of the existing or reconstructed dune system. Pipes placed parallel to the dune shall be no farther seaward than 5 to 10 feet away from the toe of the dune. Nighttime storage of construction equipment that is not in use shall be located off the beach. If staging and storage areas off the beach are not possible, then additional marine turtle and shorebird protective measures shall be implemented. Such protective measures shall be determined in coordination with the Department and FWC prior to beginning of construction. Temporary storage of pipes shall be off the beach to the maximum extent possible. If it is necessary to extend construction pipes past a known shorebird nesting site or over-wintering area for piping plovers, then whenever possible those pipes shall be placed landward of the site before birds are active in that area. No pipe or sand shall be placed seaward of a shorebird nesting site during the shorebird nesting season.

19. ***Project Lighting.*** Direct lighting of the beach and nearshore waters shall be limited to the immediate construction area during the sea turtle nesting season and shall comply with safety requirements. Lighting on offshore or onshore equipment shall be minimized through reduction, shielding, lowering, and appropriate placement to avoid excessive illumination of the water's surface and nesting beach while meeting all Coast Guard, EM 385-1-1, and OSHA requirements. Light intensity of lighting equipment shall be reduced to the minimum standard required by OSHA for General Construction areas, in order not to misdirect sea turtles. Shields shall be affixed to the light housing on dredge and on land-based lights and be large enough to block light from all lamps from being transmitted outside the construction area (**Figure below**).



20. **Fill Restrictions.** During the sea turtle nesting season, the contractor shall not extend the beach fill more than 500 feet along the shoreline between dusk and the following day until the daily nesting survey has been completed and the beach cleared for fill advancement. An exception to this may occur if there is permitted sea turtle surveyor present on-site to ensure no nesting and hatching sea turtles are present within the extended work area. If the 500 feet is not feasible for the project, the Permittee may submit a request for an alternate distance to FWC, and FWC shall decide if that distance is acceptable during the pre-construction meeting. Once the beach has been cleared and the necessary nest relocations have been completed, the contractor shall be allowed to proceed with the placement of fill during daylight hours until dusk, at which time the 500-foot length limitation shall apply.
21. **Compaction Sampling.** Sand compaction shall be monitored in the area of sand placement immediately after completion of the nourishment event, and two weeks prior to the beginning of marine turtle nesting season, of the project and prior to April 15th for three (3) subsequent years. Compaction shall be monitored in accordance with a protocol agreed to by the FWS, FWC and the Permittee. The requirement for compaction monitoring can be eliminated if the decision is made to till regardless of post-construction compaction levels. Out-year compaction monitoring and remediation are not required if placed material no longer remains on the beach.

At a minimum, the protocol provided below shall be followed. If the average

value for any depth exceeds 500 pounds per square inch (psi) for any two or more adjacent stations, then that area shall be tilled immediately prior to the beginning of marine turtle nesting season.~~the following dates listed above.~~ If values exceeding 500 psi are distributed throughout the project area but in no case do those values exist at two adjacent stations at the same depth, then consultation with the FWC or FWS shall be required to determine if tilling is required. A request for a tilling waiver based on these compaction values shall be submitted to the FWC at marineturtle@myfwc.com. If a few values exceeding 500 psi are present randomly within the project area, tilling shall not be required.

- a. Compaction sampling stations shall be located at 500-foot intervals along the project area. One station shall be at the seaward edge of the dune/bulkhead line (when material is placed in this area), and one station shall be midway between the dune line and the high water line (normal wrack line).
 - b. At each station, the cone penetrometer shall be pushed to a depth of 6, 12 and 18 inches, three times at each depth (three replicates). Material may be removed from the hole if necessary to ensure accurate readings of successive levels of sediment. The penetrometer may need to be reset between pushes, especially if sediment layering exists. Layers of highly compact material may lie over less compact layers. Replicates shall be located as close to each other as possible, without interacting with the previous hole and/or disturbed sediments. The three replicate compaction values for each depth shall be averaged to produce final values for each depth at each station. Reports shall include all 18 values for each transect line and the final 6 averaged compaction values.
 - c. No compaction sampling shall occur within 300 feet of any shorebird nest.
 - d. Any vehicles operated on the beach in association with compaction surveys shall operate in accordance with the FWC's Best Management Practices for Operating Vehicles on the Beach (<http://myfwc.com/conservation/you- conserve/wildlife/beach-driving/>).
22. **Tilling Requirements.** If tilling is required as specified above, the area shall be tilled to a depth of 36 inches. All tilling activity shall be completed prior to the marine turtle nesting season. If tilling occurs during shorebird nesting season (See Specific Condition 11.b., above), shorebird surveys prior to

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tilling shall be required per the shorebird conditions included within this document. It is the responsibility of the contractors to avoid tilling, scarp removal, or dune vegetation planting in areas where nesting birds are present. Each pass of the tilling equipment shall be overlapped to allow thorough and even tilling. If the project is completed during the marine turtle nesting season, tilling shall not be performed in areas where nests have been left in place or relocated. If compaction measurements are taken, a report on the results of the compaction monitoring shall be submitted electronically to FWC at marineturtle@myfwc.com prior to any tilling actions being taken.

- a. No tilling shall occur within 300 feet of any shorebird nest.
 - b. If flightless shorebird young are observed within the work zone or equipment travel corridor, a Bird Monitor shall be present during the operation to ensure that equipment does not operate within 300 feet of the flightless young.
 - c. A relatively even surface, with no deep ruts or furrows, shall be created during tilling. To do this, chain-linked fencing or other material shall be dragged over those areas as necessary after tilling.
 - d. Tilling shall occur landward of the wrack line and avoid all vegetated areas 3 square feet or greater, with a 3-foot buffer around the vegetated areas. The slope between the mean high water line and the mean low water line must be maintained in such a manner as to approximate natural slopes.
 - e. Any vehicles operated on the beach in association with tilling shall operate in accordance with the FWC's Best Management Practices for Operating Vehicles on the Beach (<http://myfwc.com/conservation/you-conserve/wildlife/beach-driving/>).
23. ***Escarpment Surveys.*** Visual surveys for escarpments along the project area shall be made immediately after completion of the sand placement project, weekly during sea turtle nesting season, and during March 15 to April 15, for three (3) subsequent years if sand from the project still remains on the beach. Weekly reports shall be submitted by Friday each week to marineturtle@myfwc.com.

Escarpments that interfere with sea turtle nesting or that exceed 18 inches in height for a distance of at least 100 feet shall be leveled and the beach profile shall be reconfigured to minimize scarp formation by April 15. Any

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escarpment removal shall be reported relative to R- monument location to FWC at marineturtle@myfwc.com, with a copy sent to the JCP Compliance Officer. ~~to FWC by location~~ If the project is completed during the sea turtle nesting and hatching season, FWC may require the Permittee to level escarpments immediately, while protecting nests that have been relocated or left in place. If, during the nesting and hatching season, there is any subsequent reformation of escarpments that interfere with sea turtle nesting or that exceed 18 inches in height for a distance of 100 feet, the Permittee shall immediately contact FWC to determine the appropriate action to be taken. ~~If it is determined that escarpment leveling is required during the nesting or hatching season, the FWS or FWC shall provide a brief written authorization that describes methods to be used to reduce the likelihood of impacting existing nests.~~ The Permittee shall provide locations and measurements of the escarpments to the closest R monument as well as the coordinates for the location of marine turtle nests located within 20 feet of the escarpments (latitude and longitude in decimal degrees), with photographs when possible. Upon written notification by FWC that the escarpment needs to be leveled, the Permittee shall level the escarpment. If nests are located nearby, to minimize impacts to any existing nest the Permittee shall also coordinate with the marine turtle permit holder prior to leveling the escarpments. An annual summary of escarpment surveys and actions taken shall be submitted electronically to marineturtle@myfwc.com along with the annual summary as described below. If escarpment removal occurs during shorebird breeding season (See Specific Condition 11.b.), shorebirds surveys shall be required prior to escarpment removal per the shorebird conditions included within this document. (NOTE: Out-year escarpment monitoring and remediation are not required if placed material no longer remains on the dry beach.)

- a. No heavy equipment shall operate within 300 feet of any shorebird nest.
- b. If flightless shorebird young are observed within the work zone or equipment travel corridor, a Bird Monitor shall be present during the operation to ensure that equipment does not operate within 300 feet of the flightless young. It is the responsibility of the Permittee to ensure that their contractors avoid tilling, scarp removal or dune vegetation planting in areas where nesting birds are present.
- c. Any vehicles operated on the beach in association with escarpment surveys or removal shall operate in accordance with the FWC's Best Management Practices for Operating Vehicles on the Beach (<http://myfwc.com/conservation/you- conserve/wildlife/beach-driving/>).

24. All Terms and Conditions in the FWS Programmatic Piping Plover Biological Opinion, dated May 22, 2013, shall be met as required in that document.

~~Post-construction Shorebird Protection Conditions:~~

- ~~25. If beach cleaning will occur on the nourished beach, a minimum of 30% of the biotic material within the wrack line shall be left on the beach post-cleaning at the strand line in a natural configuration to ensure that the nourished beach re-establishes its function as foraging habitat for shorebirds. This shall occur for as long as the placed sand remains on the beach.~~

Post-construction Monitoring and Reporting Marine Turtle Protection Conditions:

25. For each nourishment event, reports on all marine turtle nesting activity shall be provided for the initial marine turtle nesting (*May 1 through September 15*) and hatching (*through October 31*) season and for two full nesting seasons post construction in accordance with the Table 1 (below). If nesting and reproductive success is less than the criteria in the table below, an additional year of monitoring and reporting may be required. If criteria is not met, additional conditions prior to the next sand placement on this beach may be required by the Department and FWC up to three additional seasons as follows.:
- a. For the initial nesting season and the following year, the number and type of emergences (nests or false crawls) shall be reported per species in accordance with **Table 1 below**. An additional year of nesting surveys may be required if nesting success for any species on the nourished beach is less than 40%.
 - b. For the initial nesting season, reproductive success shall be reported per species in accordance with **Table 1 below**. Reproductive success shall be reported for all sea turtle nests if possible. Otherwise a statistically significant number of nests for each species shall be reported.
 - c. In the event that the reproductive success documented by species meets or exceeds required criteria (outlined in **Table 1 below**) for each species, monitoring for reproductive success shall be recommended, but not required for the second year post-construction.
 - d. Monitoring of nesting activity in the seasons following construction

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shall include daily surveys and any additional measures authorized by the FWC. Summaries shall include all crawl activity, nesting success rates, hatching success of all relocated nests, hatching success of a representative sampling of nests left in place (if any) by species, project name, applicable project permit numbers and dates of construction.

Data shall be reported for the nourished areas in accordance with **Table 1 below** and shall include number of nests lost to erosion or washed out. Summaries of nesting activity shall be submitted in electronic format (Excel spreadsheets) to the FWC Imperiled Species Management section at MTP@myfwc.com. All summaries shall be submitted by January 15 of the following year. The FWC Excel spreadsheet is available upon request from MTP@myfwc.com.

Table 1. Marine Turtle Monitoring:

Metric	Duration	Variable	Criterion
Nesting Success	Year of in-season construction and two entire nesting seasons post construction, with possible additional year ¹ & 2	Number of nests and non-nesting emergences by day by species	40% or greater
Hatching Success	Year of in-season construction and one entire nesting season post construction, with possible additional year ¹ & 2	Number of hatchlings by species to hatch from egg	60 percent or greater (a statistically valid number of loggerhead and green nests)
Emergence Success	Year of in-season construction and one entire nesting season post construction, with possible additional year ¹ & 2	Number of hatchlings by species to emerge from nest onto beach	Average must not be significantly different than the average hatching success
Disorientation	Year of in-season construction and two entire nesting seasons	Number of nests and individuals that misorient or	

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Metric	Duration	Variable	Criterion
	post construction ¹	disorient	
Nests affected by erosion or inundation	Year of construction and two years post construction if placed sand remains on the beach	Number of nests lost and/or affected, by species	
Lighting Surveys	Two in-season surveys the year following construction; First survey between May 1 and May 15 and second survey between July 15 and August 1 ¹	Number, location and photographs of lights visible from nourished berm, corrective actions recommended and notifications made	Lighting survey and possible meeting resulting with plan for reduction in lights visible from nourished berm
Compaction	Three nesting seasons beginning with the year of construction. Not required if the beach is tilled prior to nesting seasons ¹	Shear resistance	Less than 500 psi
Escarpment Surveys	Weekly during nesting season for three years beginning with year of construction ¹	Number of scarps 18 inches or greater extending for more than 100 feet that persist for more than 2 weeks	Successful remediation of all persistent scarps as needed
¹ If placed sand remains on the beach ² Additional years may be required if variable does not meet criterion based on previous year			

26. **Post-Construction Lighting Surveys.** The Permittee shall ensure that lighting surveys be conducted from the renourished berm and the following actions taken to address potential adverse impacts expected with artificial lights visible from any dry portion of the newly elevated beach. The surveys

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shall be conducted from the top of the foreshore slope (i.e., the seaward edge of the filled berm before it slopes into the water), facing landward. The survey shall follow standard techniques for such a survey, such as including the number and type of visible lights, location of lights, and photo documentation (see additional techniques as per the 2015 USFWS Statewide Programmatic Biological Opinion).

- a. The first survey shall be conducted between May 1 and May 15 for the first nesting season following construction. For each visible light source, the Permittee shall document that the property owners have been notified and has been provided with recommendations for correcting the light as soon as possible. Recommendations shall be in accordance with local lighting ordinances. A report summarizing all visible lights and the recommendations for correcting the light shall be forwarded to local code enforcement. If no lighting ordinances exist, the recommendations to the property owners shall be consistent with FWC lighting guidelines, which include no lights or light sources shall be visible from the newly elevated beach. The second survey shall be conducted between July 15 and August 1 to assess any remaining visible lights requiring corrective action.

- b. A summary report of the surveys and what corrective actions or local enforcement actions have been taken shall be submitted to FWC at marineturtle@myfwc.com and copied to JCPCCompliance@dep.state.fl.us by December 31 of the year in which surveys are conducted. Upon request by the FWC, the Permittee shall set up and hold a meeting with the those responsible for code enforcement (when applicable), FWC and the USFWS to discuss the report and potential additional corrective action needed, as well as any documented marine turtle disorientations in or adjacent to the project area.

~~The Contractor shall use the approved sea turtle sub-contractor to perform the two lighting surveys. A nighttime survey shall be conducted of all lighting visible from the beach placement area by the Contractor, using standard techniques for such a survey, both immediately prior to and after construction. During the nighttime lighting surveys, a surveyor shall walk the length of the beach placement area looking for light from artificial sources. During the nighttime lighting surveys, a complete census shall be made of the number, types, locations, and custodians of artificial light sources that emit light visible from the beach. Because problem lighting will be most visible on the darkest nights, lighting inspections are to be conducted when there is no moon visible. Descriptions of light sources identified during the survey should be detailed enough so that~~

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~~anyone can locate the lighting. In addition to a general description of each luminaire (e.g., HPS floodlight directed seaward at top northeast corner of the building at 123 Ocean Street), photographs or sketches of the lighting may be necessary. Descriptions should also include an assessment of how the specific lighting problem can be resolved (e.g., needs turning off; should be redirected 90° to the east, etc.). A summary report of the survey shall be submitted to the Corps' Contracting Officer.~~

27. Sediment quality shall be assessed as outlined in the Sediment Quality Assurance/Quality Control (QA/QC) plan (approved on ~~July 19, 2013~~ July 26, 2019). Any occurrences of placement of material not in compliance with the Plan shall be handled according to the protocols set forth in the Sediment QA/QC plan. The sediment testing result shall be submitted to the

JCP Compliance Officer within 90 days following the completion of beach construction. The Sediment QA/QC plan includes the following:

- a. If during construction, the Permittee or Engineer determines that the beach fill material does not comply with the sediment compliance specifications, measures shall be taken to avoid further placement of noncompliant fill, and the sediment inspection results shall be reported to the JCP Compliance Officer.
- b. The Permittee shall submit post-construction sediment testing results and an analysis report as outlined in the Sediment QA/QC plan to the JCP Compliance Officer within 90 days following beach construction. A summary table of the sediment samples and test results for the sediment compliance parameters, as outlined in Table 1 of the Sediment QA/QC plan, shall accompany the complete set of laboratory testing results. A statement of how the placed fill material compares to the sediment analysis and volume calculations from the geotechnical investigation shall be included in the sediment testing results report.
- c. A post-remediation report containing the site map, sediment analysis, and volume of noncompliant fill material removed and replaced shall be submitted to the JCP Compliance Officer within 7 days following completion of remediation activities.
- d. Adherence to the maximum large shell content (material retained on the $\frac{3}{4}$ inch sieve) and carbonate content, as specified in the approved Plan, are **not** a condition of the permit. The fill material

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shall adhere to the requirements contained in Rule 62B-41.007(2)(j), F.A.C., for these sediment parameters.

28. Construction at the project site shall be monitored closely to assure that turbidity levels do not exceed the compliance standards established in this permit. Accordingly, an individual familiar with beach construction techniques and turbidity monitoring shall be present at all times when fill material is discharged on the beach. This individual shall serve as site supervisor and shall have authority to alter construction techniques or shut down the dredging or beach construction operations if turbidity levels exceed the compliance standards established in this permit. The names and qualifications of those individuals performing these functions, along with 24-hour contact information, shall be submitted for approval to the JCP Compliance Officer in Tallahassee, with a copy to the Department's Southwest District Office. Any individual who performs this function shall be approved by the Department before beginning to serve in this capacity.

29. ***Water Quality Monitoring.***

Parameter: Turbidity - Nephelometric Turbidity Units (NTUs)

Frequency: Three (3) times per day, at least 4 hours apart, during all dredging and filling operations. Sampling shall be conducted **while the highest project-related turbidity levels are crossing the edge of the mixing zone**. Since turbidity levels can be related to pumping rates, the dredge pumping rates shall be recorded, and provided to the Department upon request. If pumping rates are highest at night, then night-time turbidity monitoring would be required. The compliance samples and the corresponding background samples shall be collected at approximately the same time, i.e., one shall immediately follow the other.

Location: Background: At surface, mid-depth, and (for sites with depths greater than 25 feet) 2 meters above the bottom, clearly outside the influence of any artificially generated turbidity plume or the influence of an outgoing inlet plume.

Borrow Site: Samples shall be collected at least 300 meters up- current from the source of turbidity at the dredge site.

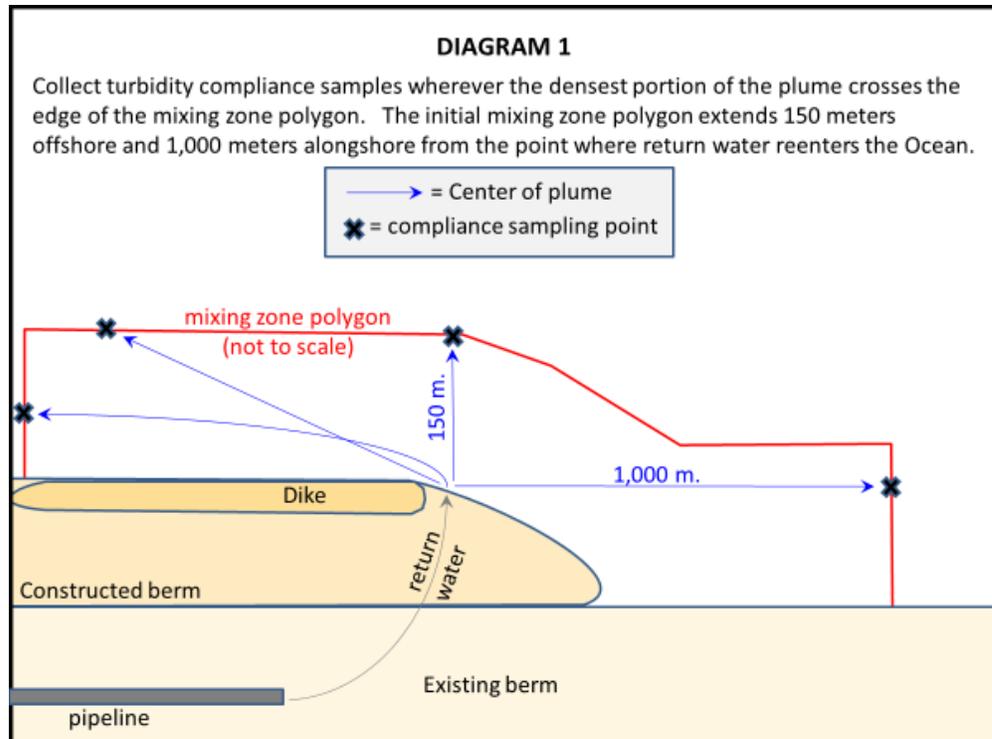
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Beach Site: Samples shall be collected at least 500 meters up- current from any portion of the beach that has been, or is being, filled during the current construction event, at the same distance offshore as the associated compliance sample.

Compliance: At surface, mid-depth, and (for sites with depths greater than 25 feet) 2 meters above the bottom, within the densest portion of any visible turbidity plume generated by this project. If no plume is visible, follow the likely direction of flow.

Borrow Site: Samples shall be collected 150 meters down-current from the source of turbidity at the dredge, which may include the cutterhead or hopper dredge overflow.

Beach Site: Samples ~~for the 2013 nourishment event~~ shall be collected where the densest portion of the turbidity plume crosses the edge of the mixing zone polygon, which measures up to 150 meters down-current offshore and up to 1,000 meters alongshore from the point where the return water from the dredged discharge reenters the Gulf of Mexico, ~~but shall not extend south of R-36.5 or at the location of the nearest hardbottom edge, whichever is less.~~ *Note: If the plume flows offshore, the densest portion of the plume cross the mixing zone polygon at a distance less than 1,000 meters alongshore, and if it flows parallel to the shoreline, the densest portion of the plume may cross the edge of the mixing zone polygon at a distance less than less than 150 meters offshore. In that case, it may be necessary to access the sampling location from the shore, in water that is too shallow for a boat. See Diagram 1.*



Intermediate Monitoring: (required when using a mixing zone that exceeds 150 meters in size): Samples shall be collected in the densest portion of the turbidity plume, at the surface, mid-depth and (for sites with depths greater than 25 feet) 2 meters from the bottom. The Intermediate sampling points shall be approximately 150 meters, 300 meters, 500 meters, and 750 meters down-current from the point where the return water from the dredged discharge reenters the Gulf of Mexico (if those points are located inside the mixing zone). These measurements will be used to calibrate the size of the mixing zone for future nourishment events. After the 2013 nourishment event, and prior to subsequent nourishment events, the Permittee shall use the intermediate turbidity monitoring data to support a recommendation for appropriately sized mixing zone dimensions. This information shall be submitted to the Department as part of an application for a permit modification to establish a mixing zone for the next nourishment event.

Calibration: The instruments used to measure turbidity shall be fully calibrated with primary standards within one month of the

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commencement of the project, and at least once a month throughout the project. Calibration with secondary standards shall be verified each morning prior to use, after each time the instrument is turned on, and after field sampling using two secondary turbidity “standards” that bracket the anticipated turbidity samples. If the post-sampling calibration value deviates more than 8% from the previous calibration value, results shall be reported as estimated and a description of the problem shall be included in the field notes.

Analysis of turbidity samples shall be performed in compliance with the Department’s standard operating procedure (SOP) DEP-SOP-001/01 FT 1600 Field Measurement of Turbidity. A link to the SOP is below:

<http://publicfiles.dep.state.fl.us/dear/sas/sopdoc/2008sops/ft1600.pdf>

If the turbidity monitoring protocol specified above prevents the collection of accurate data, the person in charge of the turbidity monitoring shall contact the JCP Compliance Officer to establish a more appropriate protocol. Once approved in writing by the Department, the new protocol shall be attached to the permit and shall be implemented without the need for a formal permit modification.

30. The compliance locations given above shall be considered the limits of the temporary mixing zone for turbidity allowed during construction. If monitoring reveals turbidity levels at the compliance sites that are greater than 29 NTUs above the corresponding background turbidity levels, construction activities shall **cease immediately** and not resume until corrective measures have been taken and turbidity has returned to acceptable levels. Any such occurrence shall also be immediately reported to the JCP Compliance Officer in Tallahassee via email at JCPCCompliance@dep.state.fl.us and include in the subject line, “TURBIDITY EXCEEDANCE”, along with the Project Name and Permit Number. Also notify the Department’s Southwest District office.

Any project-associated turbidity source other than dredging or fill placement for beach nourishment (e.g., scow or pipeline leakage) shall be monitored as close to the source as possible. If the turbidity level exceeds 29 NTUs above background, the construction activities related to the exceedance shall **cease immediately** and not resume until corrective measures have been taken and turbidity has returned to acceptable levels. This turbidity monitoring shall continue every hour until background turbidity levels are restored or until otherwise directed

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by the Department. The Permittee shall notify the Department, by separate email to the JCP Compliance Officer, of such an event within 24 hours of the time the Permittee first becomes aware of the discharge. The subject line of the email shall state “PROJECT- ASSOCIATED DISCHARGE-OTHER”.

a. When reporting a turbidity exceedance, the following information shall also be included:

ai. the Project Name;

bii. the Permit Number;

ciii. location and level (NTUs above background) of the turbidity exceedance;

dii. the time and date that the exceedance occurred; and

e. the time and date that construction ceased.

b. Prior to re-commencing the construction, a report shall be emailed to the Department with the same information that was included in the “Exceedance Report”, plus the following information:

ai. turbidity monitoring data collected during the shutdown documenting the decline in turbidity levels and achievement of acceptable levels;

bii. corrective measures that were taken; and

ciii. cause of the exceedance.

31. **Turbidity Reports.** All turbidity monitoring data shall be submitted within one week of analysis. The data shall be presented in tabular format, indicating the measured turbidity levels at the compliance sites for each depth, the corresponding background levels at each depth and the number of NTUs over background at each depth. Any exceedances of the turbidity standard (29 NTUs above background) shall be highlighted in the table. In addition to the raw and processed data, the reports shall also contain the following information:

a. time of day samples were taken;

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- b. dates of sampling and analysis;
- c. GPS location of sample and source. When possible, coordinates should be provided in decimal degrees with a 5 decimal level of precision (i.e., 0.000001). Please also indicate the datum;
- d. depth of water body;
- e. depth of each sample;
- f. antecedent weather conditions, including wind direction and velocity;
- g. tidal stage and direction of flow;
- h. water temperature;
- i. a geo-referenced map, overlaid on an aerial photograph, indicating the sampling locations, dredging and discharge locations, the visible plume pattern and direction of flow. The map shall also include the boundaries of any benthic resources and/or OFW. A sample map shall be reviewed by the Department prior to construction;
- j. a statement describing the methods used in collection, handling, storage and analysis of the samples;
- k. a statement by the individual responsible for implementation of the sampling program concerning the authenticity, precision, limits of detection, calibration of the meter, accuracy of the turbidity data and precision of the GPS measurements;
- l. When samples cannot be collected, include an explanation in the report. If unable to collect samples due to severe weather conditions, include a copy of a current report from a reliable, independent source, such as an online weather service.

Monitoring reports shall be submitted by email to the JCP Compliance Officer. In the subject line of the reports, on the cover page to the submittal and at the top of each page, include the Project Name, Permit Number and the dates of the monitoring interval. Failure to submit reports in a timely manner constitutes grounds for revocation of the permit.

32. ***Hardbottom Monitoring.*** ~~The nearshore hardbottom adjacent to this project shall be monitored for possible secondary impacts. Prior to the second~~

~~nourishment event that is authorized by this permit, a baseline hardbottom survey shall be conducted by divers according to Department approved protocol. The Survey shall cover all hardbottom within 300 meters seaward of the equilibrium toe of fill (ETOF) as well as 300 meters updrift and downdrift of the project. Thereafter, monitoring shall be conducted for 3 years after each nourishment event, and shall be compared to the baseline survey to identify any secondary impacts to hardbottom. Prior to implementation of the monitoring, the Permittee shall develop a Monitoring Plan and shall submit it to the Department for approval.~~

Biological monitoring shall be conducted to provide the Department with reasonable assurance that any unpermitted, project-related, persistent or temporary, negative impacts (direct or indirect) to hardbottom resources will be documented, if they occur. The Permittee shall adhere to the current, Department-approved Hardbottom Biological Monitoring Plan (HBMP), which is a binding part of this permit. The Permittee is responsible for ensuring that their selected contractor(s) / subcontractor(s) are knowledgeable of all permit conditions pertaining to monitoring requirements (including the HBMP); not just the scope of work in the contract prepared by the Permittee / contractor. The Permittee shall acquire written approval from the Department prior to implementing any revisions to the HBMP. Sub-conditions 33a-33d and **Table 2** (below), summarize monitoring and reporting requirements detailed the HBMP.

- a. **Nearshore Hardbottom Monitoring.** Nearshore hardbottom adjacent to the fill template, beyond the permitted ETOF, shall be monitored (see **Section 2.0 of the HBMP**). A single pre-construction monitoring event shall be conducted prior to fill placement. This pre-construction monitoring event shall serve as the baseline for all post-construction monitoring. An immediate post-construction monitoring event (within six months of project completion) and three annual post-construction monitoring events (Years 1, 2, and 3 post-construction) shall be conducted following each fill placement event conducted under this Permit. Unless otherwise approved in writing by Department staff, all monitoring events shall be conducted during summer months (May through September), as close as practicable to the date the baseline monitoring event was conducted. Standard operating procedures shall be used during each monitoring event to provide consistent and repeatable collection of data.
- b. **Mitigative Artificial Reef Monitoring.** The three (3) mitigative artificial reefs adjacent to the fill template, beyond the permitted

ETOF, shall be monitored in association with the one-time only fill placement event (see Section 3.0 of the HBMP). The December 2013/January 2014 pre-construction monitoring event for the 2014 Coquina Beach Project Nourishment Project (FDEP Permit No. 0281452-001-JC and Modification No. 0281452-005-JN) shall serve as the baseline monitoring event for the 1993, 2005, and 2011 mitigative artificial reefs. Three annual post-construction monitoring events (Years 1, 2, and 3 post-construction) shall be conducted following the one-time only fill placement event conducted under Permit Modification No. 0039378-018-JN. Unless otherwise approved in writing by Department staff, all post-construction monitoring events shall be conducted during summer months (May through September) in conjunction with post-construction biological monitoring events for nearshore hardbottom. Standard operating procedures shall be used during each monitoring event to provide consistent and repeatable collection of data.

- c. **Reporting Requirements.** Reporting requirements are summarized below. See **Section 5.0 of the HBMP** for all reporting requirements.
- i. **Notification of commencement, progress, and completion of work.** Commencement dates of monitoring events shall be reported via email to the JCP Compliance Officer (JCPCompliance@dep.state.fl) and to staff in the Beaches, Inlets, and Ports program roughly seven (7) days prior to the start of monitoring and the day that monitoring begins. Brief monitoring progress reports shall be submitted (emailed) weekly to the JCP Compliance Officer until completion of each monitoring event. As soon as monitoring activities have ended, the JCP compliance officer shall be notified that the monitoring event has been completed.
 - ii. **Pre-construction (baseline) nearshore hardbottom monitoring submissions.** At least 30 days prior to construction, the monitoring firm shall submit all raw data collected during the baseline hardbottom monitoring event directly and concurrently to the JCP Compliance Officer, the Permittee, and the Agent (e.g., on portable hard drives or via an FTP site).
 - iii. **Post-construction nearshore hardbottom and mitigative artificial reef monitoring data submissions.** Within 45 days

of completing each required post-construction monitoring event, all raw monitoring data shall be submitted directly and concurrently by the monitoring firm to the JCP Compliance Officer, the Permittee, and the Agent (e.g., on portable hard drives or via an FTP site).

iv. **Post-construction nearshore hardbottom and mitigative artificial reef monitoring report submissions.** Within 90 days of completing each required post-construction monitoring event, a written report shall be provided to the JCP Compliance Officer in electronic format. The report shall be submitted by the monitoring firm directly and concurrently to the Department, Permittee, and the Agent (e.g., by email, on a portable hard drive, or via an FTP site).

d. **Monitoring Summary.** Biological monitoring of natural hardbottom for beach fill placement (nourishment) shall include in-situ nearshore hardbottom edge mapping and permanent transect monitoring (Table 2). Mitigative artificial reef monitoring shall include the collection of physical monitoring data (in-situ boundary delineation and net acreage estimation) (Table 2). All monitoring events shall be conducted during summer months (May through September), unless otherwise approved by Department staff. Monitoring data and reports are required to be submitted following each monitoring event, according to the HBMP (see Section 5.0 of the HBMP and see Specific Condition No. 33.c).

Table 2. Monitoring Summary

Monitoring Area	Survey	Survey Type	Monitoring Period & Number of Events	Deliverables
Nearshore Hardbottom (between R-22 and R-24)	Biological Monitoring Permanent Transects (Biological (3) and Sediment Only (2))	Line-Intercept (all transects)	Pre-Construction (N=1): Once prior to fill placement event (Baseline).	Excel spreadsheet, PDF of field sheets
		Interval Sediment Depth (all transects)		Excel spreadsheet, PDF of field sheets
		Qualitative Video (only biological transects)	Post-Construction (N=4 per fill placement event): Immediately (within 6 months) and annually for 3 years (years 1, 2, and 3).	Video
		Quadrat Sampling (only biological transects)		Excel spreadsheet, PDF of field sheets
	Hardbottom Edge	Shapefiles		
Mitigative Reefs (1993, 2005, 2011) (between R-36 and R-39)	Physical Monitoring	<i>In-situ</i> Boundary Delineation	Post-Construction (N=3 following the one time only Coquina Beach fill event): annually for 3 years (years 1, 2, and 3).	Shapefiles
		Line-Intercept (all transects)		Excel spreadsheet, PDF of field sheets

33. **This permit does not authorize any impacts to hardbottom resources.** If the hardbottom monitoring identifies any unpermitted, project-related, persistent or temporary, negative impacts (direct or indirect) to hardbottom or mitigative reef resources, secondary impacts from this project, then the Permittee would be responsible for offsetting those impacts. Impacts and their mitigation may be handled through compliance and enforcement action, and the amount of mitigation may be determined according to the

Department's UMAM assessment.

34. ***Physical Monitoring.*** Pursuant to Chapter 62B-41.005(16), F.A.C., physical monitoring of the project shall be required through acquisition of project-specific data to include, at a minimum, topographic and bathymetric surveys of the beach, offshore, and borrow site areas, and engineering analysis. The monitoring data are necessary in order for both the project sponsor and the Department to regularly observe and assess, with quantitative measurements, the performance of the project, any adverse effects that have occurred, and the need for any adjustments, modifications, or mitigative response to the project. The scientific monitoring process also provides the project sponsor and the Department with information necessary to plan, design and optimize subsequent follow-up projects, potentially reducing the need for and costs of unnecessary work, as well as potentially reducing any environmental impacts that may have occurred or would be expected.

Monitoring and reporting of the permitted project shall be conducted in accordance with the Physical Monitoring Plan dated July 2019, and with the conditions of this permit. ~~Prior to construction, the Permittee shall submit an acceptable Monitoring Plan subject to review by the Department. The Monitoring Plan shall include project drawings that depict the survey profiles and survey grid lines for the beach offshore profiles on Anna Maria Island and for the bathymetric survey of the entire shoal complex at the north end of Anna Maria Island.~~

The approved Monitoring Plan can be revised at any later time by written request of the Permittee and with the written approval of the Department. If, subsequent to approval of the Monitoring Plan, there is a request for modification of the permit, the Department may require revised or additional monitoring requirements as a condition of approval of the permit modification.

The approved ~~An acceptable~~ plan shall generally ~~contains~~ the following items:

- a. Topographic and bathymetric profile surveys of the beach and offshore shall be conducted within 90 days prior to commencement of construction, and within 60 days following completion of construction of the project. Thereafter, monitoring surveys shall be conducted one year after construction and annually for a period of three (3) years; then biennially continue every two years thereafter (i.e., one-year post-construction, three-year post-construction, five-year post-construction, etc.) until the next beach nourishment event or the expiration of the project design life, whichever occurs first. The

monitoring surveys shall be conducted during a spring or summer month and repeated as close as practicable during that same month of the year. If the time period between the immediate post-construction survey and the first annual monitoring survey is less than six months, then the Permittee may request a postponement of the first monitoring survey until the following spring/summer. A postponement request should be submitted as part of the cover letter for the post-construction report. A prior design survey of the beach and offshore may be submitted for the pre-construction survey if consistent with the other requirements of this condition.

The monitoring area shall include profile surveys at each of the Department reference monuments within the bounds of the beach fill area and along at least 5,000 feet of the adjacent shoreline, on both sides of the beach fill area (R-1 to R- 41, inclusive). For those project areas that contain erosion control structures, such as groins or breakwaters, additional profile lines shall be surveyed at a sufficient number of intermediate locations to accurately identify patterns of erosion and accretion within this subarea (R-33 to R-41, inclusive). All work activities and deliverables shall be conducted in accordance with the latest update of the Department's Beaches, Inlets and Ports Program (BIPP) Monitoring Standards for Beach Erosion Control Projects, Sections 01000 and 01100.

- b. Bathymetric surveys of the borrow area(s) shall be conducted within 90 days prior to commencement of construction, and within 60 days following completion of construction of the project concurrently with the beach and offshore surveys required above. Borrow sites located in tidal inlet shoals or in nearshore waters, above the depth of closure for littoral transport processes, shall be surveyed at two (2) year intervals concurrently with the beach and offshore surveys required above (~~i.e., one year post construction, three year post construction, five year post construction, etc.~~). A prior design survey of the borrow area may be submitted for the pre-construction survey, if consistent with the other requirements of this condition.

Survey grid lines across the borrow area(s) shall be spaced to provide sufficient detail for accurate volumetric calculations but spaced not more than a maximum of 500 feet apart and shall extend a minimum of 500 feet beyond the boundaries of the borrow site. For borrow sites located in tidal inlet shoals, bathymetric surveys of the entire shoal complex, including any attachment bars, shall be conducted unless otherwise specified by the Department based upon

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the size of the shoal and the potential effects of the dredging on inlet processes. In all other aspects, work activities and deliverables shall be consistent with the Department's BIPP Monitoring Standards for Beach Erosion Control Projects, Section 01200.

- c. The Permittee shall submit an engineering report and the monitoring data to the JCP Compliance Officer within 90 days following completion of the post- construction survey and each annual or biennial monitoring survey.

The report shall summarize and discuss the data, the performance of the beach fill project, and identify erosion and accretion patterns within the monitored area. In addition, the report shall include a comparative review of project performance to performance expectations and identification of adverse impacts attributable to the project. The report shall specifically state the percentage of volume remaining and the project berm width or shoreline width remaining. Indicate the volume remaining both above and below the mean high water line.

Appendices shall include plots of survey profiles and graphical representations of volumetric and shoreline position changes for the monitoring area. Results shall be analyzed for patterns, trends, or changes between annual surveys and cumulatively since project construction.

- d. One electronic copy of the monitoring report and one electronic copy of the survey data shall be submitted to the JCP Compliance Officer in Tallahassee. Failure to submit reports and data in a timely manner constitutes grounds for revocation of the permit. When submitting any monitoring information, please include a transmittal cover letter clearly labeled with the following at the top of each page: **"This monitoring information is submitted in accordance with Item No. [XX] of the approved Monitoring Plan for Permit No. [XX] for the monitoring period [XX]."**

35. ***Cultural Resources.*** If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoe remains, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project area, the permitted project should **cease all activities** involving subsurface disturbance in the immediate vicinity of such discoveries. The Permittee, or other designee, shall contact the Florida

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Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245- 6333 or (800) 847-7278, and the JCP Compliance Officer if cultural resources are encountered. Project activities shall not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, **all work shall stop** immediately, and the proper authorities shall be notified in accordance with Section 872.05, F.S.

The set of approved permit drawings shall be revised as follows:

The 2019-2020 permit drawings (40 pages, dated June 26, 2019 and certified July 19, 2019) shall be appended to the permit file and shall **only** be applicable for the upcoming event.

The list of Permit Attachments shall be revised as follows:

Hardbottom Biological Monitoring Plan for Manatee County Beach Nourishment Project (20 pages, dated and approved August 2019) shall be appended to the permit file.

QA/QC Plan (approved July 2019) shall replace the QA/QC Plan approved July 2013)

Physical Monitoring Plan (approved July 2019), shall replace the Physical Monitoring Plan dated October 30, 2013

After thorough review of your application, staff finds that the proposed modification is not expected to adversely affect water quality or be contrary to the public interest. Staff has also determined that the proposed alteration does not increase the potential for adverse impact on the coastal system, public beach access seaward of the mean high water line or nesting marine turtles and hatchlings and their habitat, and that the proposed alteration does not reduce the design adequacy of the project. Since the proposed modification is not expected to result in any adverse environmental impact or water quality degradation the **permit is hereby modified** as stated above. By copy of this letter and the attached drawings and the attached plan, we are notifying all necessary parties of the modification.

This letter of approval does not alter the **August 28, 2028** expiration date of the permit. The only Specific Conditions of the permit that are altered by this modification are those stated above. This letter and the attached drawings and the attached plan must be attached to the original permit.

This permit is hereby modified unless a sufficient petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, Florida Statutes (F.S.), as provided below. The

procedures for petitioning for a hearing are set forth below. Mediation under Section 120.573, F.S., is not available for this proceeding.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

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The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within **14** days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within **14** days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General

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Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

If you have any questions regarding this matter, please contact Sean Greenby email at Sean.O.Green@dep.state.fl.us or by telephone at (850) 245-7667.

EXECUTION AND CLERKING:

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Gregory W. Garis
Program Administrator
Beaches, Inlets and Ports Program
Division of Water Resource Management

Attachments:

1. 2019-2020 Permit Drawings (40 pages, signed June 26, 2019 and certified July 19, 2019).
2. Hardbottom Biological Monitoring Plan for Manatee County Beach Nourishment Project (dated and approved August 2019).
3. Sediment QA/OC Plan (8 pages, approved July 26, 2019)

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CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this permit and all attachments were sent on the filing date below to the following listed persons:

cc: Ivana KennyCarmola, DWRM
Brendan Biggs, DWRM
Jennifer Steele, DWRM
Robert Brantly, DWRM
Vincent George, DWRM
Megan Mills, FDEP, South District
Vladimir Kosmynin, DWRM
JCP Compliance Officer, DWRM

Luke Davis, FWC
Morgan Parks, FWC
Sam Lynch, FWC
ConservationPlanningServices@myfwc.com,
MarineTurtle@MyFWC.com
BIPP Permit File
Laurel Reichold, USACE, Jacksonville;
Michael Hollingsworth, USACE, Jacksonville;
Paul Karch, USACE, Jacksonville;

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk

October 9, 2019
Date