# Memorandum

**Date:** October 25, 2022

Supplement
Agenda Item No. 5(L)
November 1, 2022

**To:** Honorable Chairman Jose "Pepe" Diaz
and Members, Board of County Commissioners

**From:** Daniella Levine Cava
Mayor

**Subject:** Report on the Winter 2022 Miami International Boat Show

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**Executive Summary**

On December 1, 2021, the Board of County Commissioners (Board) adopted Resolution No. R-1146-21 approving the Class I permit modification requested by Yachting Promotions, Inc. for the installation of an additional 313 temporary slips and additional structures over tidal waters within Biscayne Bay as well as an allowance for sea trials for up to 150 of the slips for the Winter 2022 Boat Show at 1 Herald Plaza (1635 North Bayshore Drive, and 1737 North Bayshore Drive, Miami, Miami-Dade County, Florida). The Board also required a report to be placed on a Board agenda with information as to the number of sea trials conducted and any adverse impacts to manatees.

Of the 150 slips authorized for sea trial use, the event utilized 136 slips, resulting in a total of 565 sea trials over the course of five days. Due to the high volume of vessel traffic created by the Boat Show itself, a key provision of the applicant's assurances to reduce and eliminate impacts to manatees was to coordinate and facilitate the monitoring of their vendors' activities. Those commitments to self-police were memorialized as permit conditions and included a commitment to the constant presence of manatee spotters on all transitory vessels, display of readily identifiable credentials on sea trial vessels, voluntary adherence to designated travel routes (which are designed to minimize conflicts with manatee habitat), maintenance of written travel logs, and voluntary cessation of in-water activities in the event of a manatee sighting. These conditions work together as a comprehensive safety net to enable rapid response and coordination in the event of a manatee sighting, minimizing risk to the manatee population while simultaneously minimizing interruptions to the show and its patrons.

Violations of these permit conditions were observed throughout the duration of the show as detailed below. While no direct injury or collision was observed, some infractions related to activities that posed direct risks of impacts to manatees, such as the failure to cease operations during manatee sightings and the failure to adhere to designated travel routes. Other infractions related to more technical requirements, which were also designed to reduce risks to manatees. Violations of those requirements in the aggregate impact the effectiveness of the safety net created by the permit conditions.

Manatee sightings occurred consistently throughout the observation period. It is difficult to quantify the event's indirect effects on manatees, including disruption of feeding and resting behaviors. Nevertheless, manatee protection remains a feature of state and local law. **To that end, based on the experience of the Winter 2022 Boat Show, any future sea trials associated with a boat show event should be located in an area outside of essential manatee habitat.**

**Background**

In 1989, based on a continued decline in manatee populations, the Florida Governor directed local governments in 13 "key" counties to develop manatee protection plans. As one of the key counties, Miami-Dade County worked over the course of four years to develop its current Manatee Protection Plan to guide federal, state, and local regulatory agencies when reviewing permit applications for new or expanding boat facilities. In May 2017, as a result of successfully implementing manatee protection plans, recovery of manatees statewide resulted in the species being reclassified from endangered to threatened under the federal Endangered Species Act. However, in 2021, an unprecedented increase in manatee deaths that is largely the result of a significant loss of habitat used by manatees for sensitive behaviors led the US Fish and Wildlife Service (USFWS) to declare an Unusual Mortality Event. In July 2021, USFWS initiated a five-year status review of the West Indian manatee, to evaluate whether appropriate protections are in place to conserve the species and whether manatees are classified properly under the Endangered Species Act.

Elevated mortality rates for manatees continue to be documented throughout the state. Essential manatee habitat is designated as such because these are the areas historically documented to host sensitive manatee behaviors.

When reviewing Class I permit applications for work in essential manatee habitat, the Department of Regulatory and Economic Resources, Division of Environmental Resource Management (DERM) consistently applies the County's Manatee Protection Plan, as required by Section 24 of the Code of Miami-Dade County and the Miami-Dade County Comprehensive Development Master Plan.

**Event Preparations and Inspections**

Following the Board's approval of Resolution No. R-1146-21, DERM issued a modification to Class I permit CLI-2018-0071 (Attachment A) to Yachting Promotions, Inc., for the annual Miami International Boat Show at 1 Herald Plaza and 1635 North Bayshore Drive, Miami. A portion of the event was also subject to Class I permit CLI-2021-0344 (Attachment B), which authorized the installation of 70 temporary slips at 801 Biscayne Boulevard, Miami.

In preparation for the Winter 2022 boat show event, DERM coordinated multiple interagency meetings with federal, State, and local law enforcement partners. The purpose of these meetings was to brief law enforcement as to the manatee protection requirements of the Class I permit and modification, as well as identifying agency coverage of the event. Together with DERM, USFWS, Florida Fish and Wildlife Conservation Commission, and law enforcement from Miami-Dade County and the City of Miami conducted daily patrols by vessel and fixed-wing aircraft of the boat show sites and the authorized sea trial routes.

DERM staff inspected the subject properties by land and vessel during the set-up and breakdown of the facility and daily inspections for the duration of the show event dates of Wednesday, February 16 – Sunday, February 20, 2022. During these inspections, DERM documented violations of several of the specific conditions of Modification No. 2 to Class I permit CLI-2018-0071, including violations of the manatee protection provisions. The daily DERM inspection reports detailing the violations and steps taken to bring the permittee into compliance are included in Attachment C.

**Pre-Event Observations**

Violations documented during pre-event construction operations included the failure to have a designated manatee observer present on-site during in-water construction operations, the required "No Entry" buoys not being present or having been installed in the incorrect location, the lack of temporary manatee caution signage, and the inability to provide the required daily log of manatee sightings on request. On January 31, 2022, DERM issued the permittee, Yachting Promotions, Inc., and the contractor of record, B&M Marine Construction, Inc., a Field Notice of Non-Compliance (Notice) for failure to have the mandatory manatee observer present while in-water work was being performed and for the failure to provide the required daily log of manatee sightings. The Notice required that all in-water work cease and desist until the permit-required designated manatee observer was present on-site. Subsequently, on February 1, 2022, DERM staff documented that the permittee had satisfactorily addressed the aforementioned permit violations, and DERM authorized the contractor to proceed with in-water construction operations.

**Event Observations**

Resolution No. R-1146-21 authorized up to 150 vessels to conduct sea trials during the Winter 2022 boat show event. Of the 150 slips authorized for sea trial use, the event used 136 slips, resulting in a total of 565 sea trials over the course of five days. The following are a summary of the violations staff documented during the event:

- Failure to cease operations during manatee sightings - Pursuant to Specific Condition #41 of Modification No. 2, all in-water operations, including sea trials, were required to be shut down if a manatee(s) came within 50 feet of the construction or vessel operations. The condition further required that activities could not resume until the manatee(s) moved beyond the 50-foot radius of the project and/or vessel operation, or until 30 minutes elapsed if the manatee(s) had not reappeared within 50 feet of the and/or vessel operation. In conjunction with the required manatee observers, DERM staff coordinated the temporary suspension of sea trials out of Sea Isle Marina on a pier-by-pier basis as manatees were observed within the area. DERM staff alerted sea trial captains of the temporary suspension via marine radio and in-person by walking the specific pier. While most sea trial vessel captains complied with the temporary sea trial suspensions, many captains appeared to be unaware of the alerts and were observed exiting or entering the marina from a pier that had been temporarily suspended due to the presence of manatees. When non-compliant sea trial captains were questioned for violating the temporary suspension, the response was that they were unaware of the suspension because their radios were turned off or not on the appropriate channel.

- Failure to adhere to designated travel routes - In order to reduce the potential of sea trial vessel overlap with manatees, Modification No. 2 required that all sea trials observe a mandatory designated travel route to the south of Dodge Island. Despite this requirement, over the course of the event sea trial vessels were observed traveling outside of the designated mandatory sea trial vessel route, primarily attempting to head north along the Intracoastal Waterway or encroaching into the Bill Sadowski Critical Wildlife Area. DERM staff issued verbal warnings to the non-compliant sea trial vessel captains and law enforcement agencies revoked a total of six sea trial vessel passes for failure to comply with the designated mandatory sea trial vessel route.

- Failure to maintain required designated manatee spotters on water taxis - At the start of the event, the required designated manatee observers were not present on all the water taxis and water taxi

staff were unable to provide the required manatee observation logs when requested. Spotters were essential to ensuring impacts to manatees were avoided vessel by vessel as each taxi trip navigated through essential habitat.

- Failure to display credentials - To easily identify which vessels were authorized to conduct sea trials, Specific Condition #44 of the Modification No. 2 required that all sea trial vessels shall be required to exhibit an official Sea Trial Pass, in a highly visible area on the starboard side of the vessel, and pennant at all times for identification. Credentials display was critical to ensuring that vessels associated with the Sea Trials could be identified at a distance by Marine Patrol and DERM at minimal interruption to the show. On the first day of the show, DERM staff observed that the sea trial vessels were not displaying the required identification. Upon DERM's notification of the violation to the permittee, the permittee stated they were unaware of the Class I permit requirement and had only instructed sea trial captains to keep the placards on board. While the permittee did subsequently take measures to disseminate the placard and pennant display requirement to the sea trial captains, DERM staff continued to document several vessels in non-compliance throughout the event.

- Other violations:
    - Private and commercial vessels not associated with the event were observed dropping off passengers at both the Sea Isle Marina and 1 Herald Plaza show locations, resulting in an increase in vessel traffic at both properties. (In order to minimize total vessel traffic, the permittee was responsible for ensuring that only passenger traffic associated with the event accessed these facilities).

    - Lids were missing on the over-water trash receptacles resulting in debris entering tidal waters and the presence of two prohibited unencapsulated polystyrene work platforms.

    - Upon conclusion of the event, at least one vendor was documented to be dumping materials into tidal waters and discarded materials were left loose on the floating docks.

**Manatee Observations**

For the purposes of manatee protection, Specific Condition #29 of Class I permit CLI-2018-0071 required that manatee observers be present when in-water work or activities were being performed. To comply with this requirement, the permittee hired manatee observers from Nova Southeastern University to monitor manatee activities at the event locations, onboard sea trial vessels, and onboard the water taxis. In addition to the manatee observers and to provide a greater ability to spot manatees within the area, Specific Condition #46 required the use of aerial manatee spotters deployed via helicopter and/or drone during the event. Three drones were deployed in the vicinity of Sea Isle Marina and the Venetian Causeway during the event dates. The total area under observation for manatee sightings includes the totality of the marina slip area and a no wake navigation perimeter.

Approximately 16 to 34 manatees were observed within this observation area during the 5 show days of Wednesday, February 16 – Sunday, February 20, 2022. The number of manatees observed during the event ranges as the manatee observers were unable to confirm if repetitive sightings of the same individual manatees occurred. DERM staff observed a total of 16 individual manatees and the manatee observers

reported between 13 and 18 manatees. At least one mother and calf pair were documented resting within Sea Isle Marina. Seven manatees were reported in the project areas during pre-event construction operations between February 1 – 12, 2022 and six were documented during the post-event breakdown occurring between February 21 – March 1, 2022. The total number of manatees observed in association with the Winter 2022 event was approximately 29 to 47 individuals, inclusive of construction and demolition activities. It is important to note that the number of manatees sighted during the pre and post show construction and break down may not be representative of all manatees utilizing the event area, because the permit conditions only required the contractor to make observations in the specific area of in-water work activities. In addition, DERM staff was only present once a day during pre- and post-show activities, in contrast to DERM staff being onsite during the entirety of the operating hours during the 5-day boat show event. A copy of the manatee observation reports is included in Attachment D.

As discussed in the DERM memorandum dated December 1, 2021, the project sites are located within an area identified by the Miami-Dade County Manatee Protection Plan (MPP) as essential manatee habitat. Essential habitat is used by manatees for sensitive activities such as feeding, resting, mating, nursing, cold shelter, and travel. These sensitive behaviors were documented at the project sites during both construction set-up and breakdown and throughout the event. It is important to note that while there were no direct impacts to manatees, such as vessel strikes, were reported or observed during the Winter 2022 event, the event did substantially increase vessel activity in an area where sensitive manatee behaviors have been documented. Moreover, it is difficult to quantify the indirect effects of the event on manatees, including disruption of feeding and resting behaviors.

**Conclusion**

Elevated mortality rates for manatees continue to be documented throughout the state. Essential manatee habitat is designated as such because these areas have been historically documented to host sensitive manatee behaviors. Observations in the event area confirm that the species continues to use this habitat. Adherence to the recommendations of the County's Manatee Protection Plan, including protecting essential manatee habitat, remains necessary for the continued recovery of the species.

In light of the above, and to reduce the potential overlap of vessel activity and manatees, DERM continues to recommend that any future sea trials associated with a boat show event be located in an area outside of essential manatee habitat.

In accordance with Ordinance 14-65, this report will be placed on the next available Board meeting agenda. If you have any questions or require additional information, please contact Rashid Istambouli, P.E., Interim Assistant Director, Division of Environmental Resources Management, Department of Regulatory and Economic Resources at rashid.istambouli@miamidade.gov.

**Attachments**

Attachment A: Modification No. 2 to Class I Permit CLI-2018-0071
Attachment B: Class I Permit CLI-2021-0344
Attachment C: DERM Inspection Reports
Attachment D: Manatee Logs
Attachment E: Florida Department of Environmental Protection Permit No.13-0361364-004-EM
Attachment F: Miami-Dade County Manatee Protection Plan-Essential Manatee Habitat Map

# Attachment A

# Modification No. 2 to Class I Permit CLI-2018-0071

**Miami-Dade County**
**Department of Regulatory and Economic Resources**
**Coastal Resources Section**
**701 N.W. 1st Court, 6th Floor**
**Miami, FL 33136-3912**

**MODIFICATION NO. 2 TO CLASS I PERMIT CLI-2018-0071**

**Permittee:** Yachting Promotions, Inc.
c/o Ricardo Strul, Vice President
1115 Northeast 9th Avenue
Fort Lauderdale, Florida 33304
(954) 325-0321

**Contractor:** B&M Marine Construction, Inc.
3500 Southwest 14th Street
Deerfield Beach, Florida 33442
(954) 421-1700
License No.: CGC052820

**Proposed Work**

**All construction and demolition activities shall be completed between January 17, 2022 and March 3, 2022.**

Annual Yacht Show taking place between February 16, 2022 and February 20, 2022:

- Temporary installation of floating docks, tents, access ramps, and associated piles for the creation of 650 temporary slips for the annual boat show.
- Installation of 3 "No Entry" piles as indicated on the final approved plans.
- Installation of 10 "No Entry" marker buoys secured by helix anchors as indicated on the final approved plans.
- Installation of 2 "No Mooring" signs along the floating docks as indicated on the final approved plans.
- Installation of wave breaks consisting of steel barges along the southern and northeastern boundaries of the submerged lands lease as indicated on the DERM final approved plans.
- Authorization for the operation of water taxi services between the project location sites, the FEC Slip, and the Island Gardens Marina.
- Authorization for a maximum of 150 sea trial slips within the existing Sea Isle Marina.

**Attachment A - Modified Mooring Prohibited Area (MPA)**
**Attachment B – Mandatory Travel Routes for Vessel Move-in, Move-out, and Water Taxi**
**Attachment C – Mandatory Designated Sea Trial Travel Route**



MDC007

**After-the-Fact:** YES ☐ NO ☒
**Fee Amount:** $5,341.00
**Bond Amount:** $100,000.00 performance bond
$85,230.00 mitigation bond for slips
**BBEETF Contribution:** N/A
**Zoning Date:** 1/14/2022
**Structural Date:** 1/14/2022
**Submerged Lands Authorization Date:** 2/6/2019, 1/14/2022

**Issued By:** FDEP ☒ DERM ☐ SFWMD ☐ City of Miami ☒

**Permit Conditions**

**The following Specific Conditions have been updated:**

33. **Due to shallow water depths and the presence of benthic resources, prior to the commencement of any construction on-site, a qualified biologist shall visibly mark the "No Entry" areas as specified on the final approved plans. The contractor shall then contact DERM to schedule an inspection. Work in tidal waters other than the installation of the "No Entry" piles and buoys shall not commence until DERM has provided written authorization to proceed. Please contact the Coastal Resources Section at (305) 372-6575 once the locations have been visibly marked and a minimum of 7 days prior to the proposed date of construction commencement to schedule the inspection. In addition, please note that:**

    a. **The "No Entry" piles and buoys shall be maintained throughout the duration of the authorized boat show activities, including construction and demolition.**
    b. **The "No Entry" piles and buoys shall be secured in such a manner so as not to scrape or drag across the substrate and cause damage to benthic resources.**

34. Due to shallow water depths and the presence of benthic resources, there shall be no pile driving, in-water equipment or vessels within the areas designated as a "**Modified Mooring Prohibited Area**" (See **Attachment A**). Areas designated as "Mooring Prohibited" shall be clearly identified by "No Entry" buoys or "No Mooring" signs as indicated on the DERM final approved plans. Failure to comply with this specific condition will be subject to enforcement by DERM.

35. Temporary use of the 1 Herald Plaza location slip for water taxis exclusively in association with the transportation plan for the boat show event taking place between February 16, 2022 and February 20, 2022 is authorized provided:

    a. The use of the slip is authorized for not more than 5 days each year exclusively in association with the transportation plan for the subject boat show;

    b. That a dedicated manatee observer whose sole responsibility is sighting manatees shall be onboard all water taxi vessels that access the 1 Herald Plaza location slip. The captain of the vessel cannot serve as the authorized manatee observer;

c. If any impacts to manatees as a result of using the slips at the1 Herald Plaza location are documented service to and from the slip shall cease for the remainder of the event and will be prohibited during subsequent events.

36. In order to mitigate for unavoidable water quality impacts associated with the 2022 boat show, mitigation in the form of limerock boulder riprap in an amount of one cubic yard of riprap per boat slip per event is required. This mitigation requirement can be satisfied either in the form of an appropriate mitigation project or a contribution to the Biscayne Bay Environmental Enhancement Trust Fund (BBEETF) in an amount equal to $90.00 per cubic yard of riprap required. The total amount of mitigation required will depend on the total number of slips ultimately created during the annual events. A mitigation bond in the amount of $85,230.00 shall be submitted annually prior to the commencement of the permitted work. If the permittee does not complete an acceptable mitigation project for water quality impacts, the commensurate portion of the bond will be retained and deposited into the BBEETF and used for the removal and disposal of derelict and abandoned vessels and other marine debris located within Biscayne Bay and its foreshores.

37. A performance bond in the amount of $100,000.00 shall be held to address any unanticipated adverse environmental impacts to benthic resources. Any environmental impacts shall be required to be restored and mitigated to meet DERM's requirements and may result in forfeiture or revocation of all or a portion of the performance bond without further notice. The required amount of the performance bond for future events shall be determined each year based on the site conditions as verified by DERM.

**The following Specific Condition has been removed for Modification No. 2 (2022 event) only:**

38. Test operation of vessels (including sea trials and demonstrations) is prohibited by the permit. All vessels occupying permitted slips for the boat show shall be secured to docks for the term of the show.

**The following Specific Conditions have been added for the 2022 event:**

39. Mooring is only authorized in designated slip areas as indicted on the DERM final approved plans. No vessels shall be moored to the wave breaks at any time.

40. In order to avoid impacts to natural resources, all vessels associated with the boat show (including but not limited to, exhibitors, water taxis, contractor barges and in-water equipment) shall adhere to the Mandatory Designated Travel Routes for Vessel Move-in and Move-out and Water Taxi (See **Attachment B**) and shall not enter the areas designated as shallow/seagrass, critical wildlife, or restoration.

41. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including sea trials, must be shut down if a manatee(s) comes within 50 feet of the construction, and/or vessel operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project and/or vessel operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the and/or vessel operation. Animals must not be herded away or harassed into leaving.

42. The 2022 Boat show even shall provide an on-site point of contact including an email and phone number for the duration of the show to DERM no less than 7 business days prior to the start of the event.

43. The 2022 Boat show event is authorized for a maximum of 150 sea trial vessels. The permittee shall provide a list of all sea trial vessels including the vessels' slip number. This information shall be provided to DERM no less than 7 business days prior to the start of the event.

44. Sea trial vessels (including demonstration vessels) are authorized by the subject modification solely for the 2022 event. All sea trial vessels shall be required to exhibit an official Sea Trial Pass, in a highly visible area on the starboard side of the vessel, and pennant at all times for identification and shall utilize the Mandatory Designated Sea Trial Travel Route (**Attachment C**) and maintain the records as follows.
    a. A sea trial log for every sea trial that occurs during the event to include the following:
        i. Date
        ii. Vessel type including length and draft
        iii. Sea trial pass number
        iv. Company and captain's name
        v. Time out and time in
        vi. Sea trial route and destination
        vii. Manatee sightings
        viii. Whether the sea trial was stopped by law enforcement or received citations for on-water moving violations
    b. In the event no sea trials are conducted on a particular day, the sea trial log for said vessel shall be submitted stating "No Sea Trials".
    c. Log of action taken for non-compliance with Mandatory Designated Vessel Traffic Route, including the manufacturer name, captain name, and sea trial pass number.
    d. Log of sea trial pass revocations.
    e. Log of manatee observations including the information outlined in Specific Condition No. 26 of the original Class I Permit.
    **f. The permittee shall actively monitor and manage sea trials to ensure compliance with mandatory travel route and permit conditions. The records shall be provided to DERM upon request or no later than 7 days from the final day of the event.**

45. Sea trials shall be conducted during day light hours only.

46. Aerial manatee spotters shall be deployed via helicopter and/or drone during the event. Manatee observers shall have experience in manatee observation. If a manatee is observed within 50 feet of the event and/or vessel operations, the manatee observe shall immediately notify any vessel operator(s) in the vicinity of the manatee and inform Luis Fernandez at (305) 487-3644.

47. Yachting Promotions, Inc. shall submit a written report providing the names of the manatee observers and their locations during the event, number and location of manatees or other wildlife sighted, and any problems encountered including the enacted solutions. This information shall be provided to DERM upon request or no later than 7 days from the final day of the event.

48. DERM staff, manatee observers, and law enforcement personnel shall have the authority to halt sea trial activities if a manatee is observed in proximity to the vessel travel route and/or within 50 feet of the event and/or vessel operations. Vessel operations shall not resume until the until the manatee(s) has moved beyond the 50-foot radius of the project and/or vessel operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the and/or vessel operation. Animals must not be herded away or harassed into leaving.

**All other specific and general conditions of CLI-2018-0071 and Modification No. 1 of the permit remain unchanged and in effect.**

All work shall be performed in accordance with the plans entitled "MIAMI YACHT SHOW PREPARED FOR: YACHTING PROMOTIONS, INC. prepared by Thomas Kelaher, P.E. License No. 40159, signed and sealed on January 6, 2022, approved by DERM and in accordance with the conditions of the Class I permit and modification.

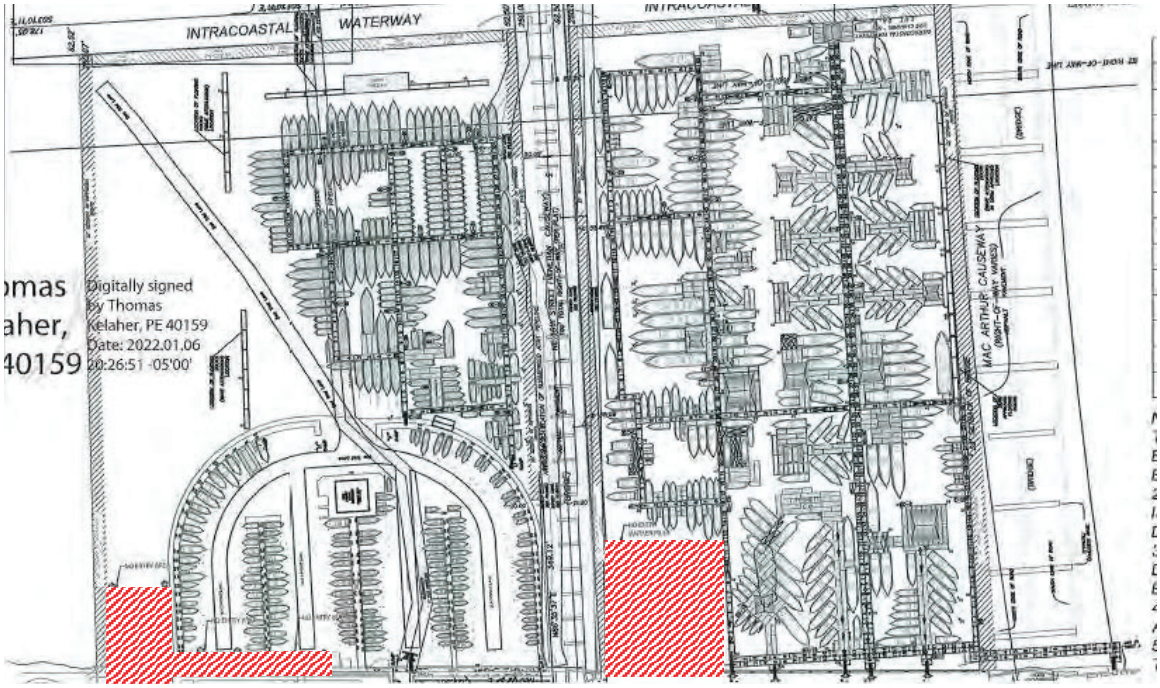
**Coastal Resources Section Review:** CMG

**Issued By:** RC **Issue Date:** 1/14/2022

***THIS MODIFICATION MUST BE ATTACHED TO THE ORIGINAL CLASS I PERMIT (CLI-2018-0071) and MODIFICATION No.1 AS EVIDENCE OF APPROVAL FROM DERM. THE ENTIRE PERMIT AND MODIFICATION SHALL BE KEPT ON SITE DURING ANY CONSTRUCTION WORK AND FOR THE DURATION OF THE EVENT.***

**Attachment A**
**Modified Mooring Prohibited Area (MPA)**

**= mooring prohibited**



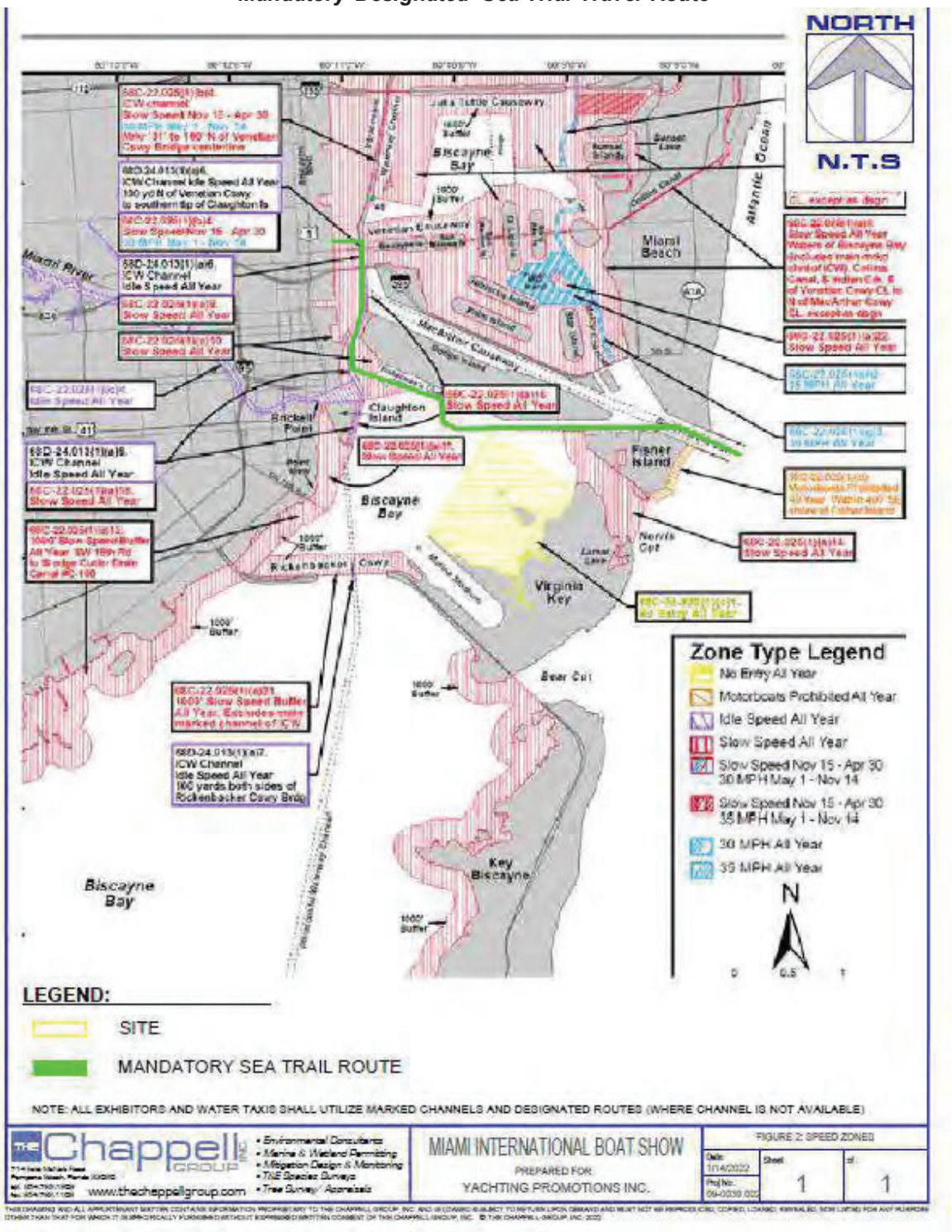
**Modified Attachment B**

***Mandatory Designated Travel Routes for Vessel Move-in and Move-out and Water Taxi***



**Attachment C**

***Mandatory Designated Sea Trial Travel Route***



# Attachment B

# Class I Permit CLI-2021-0344

**Department of Regulatory and Economic Resources**
Coastal Resources Section
701 NW 1st Court, Suite 400
Miami, FL 33136-3912
305-372-6575

# Class I Construction Permit

| | | | |
|---|---|---|---|
| **Permit Number:** | CLI-2021-0344 | **Issue Date:** | 1/19/2022 **RC** |
| **DERM Project Manager:** | Tammy Burton | **Work Expiration Date:** | 1/19/2032 **RA** |

**Permittee**

Yachting Promotions, Inc.
c/o Ricardo Strul, Vice President
1115 Northeast 9th Avenue
Fort Lauderdale, Florida 33304
(954) 325-0321

**Contractor**

B&M Marine Construction, Inc.
1211 South Military Trail, Suite 200
Deerfield Beach, Florida 33442
Phone No. (954) 421-1700
License No. CGC052820

**Bond**

**Performance Bond:** $100,000.00
**Mitigation Bond:** $6,300.00
**BBEETF Contribution:** N/A

**Engineer**

Thomas Kelaher, P.E. No. 40159

**THE ABOVE NAMED PERMITTEE IS HEREBY AUTHORIZED TO PERFORM THE WORK SHOWN ON THE APPLICATION AND APPROVED DRAWINGS, PLANS, AND OTHER DOCUMENTS ATTACHED HERETO OR ON FILE WITH THE DEPARTMENT AND MADE PART HEREOF, SUBJECT TO THE ATTACHED GENERAL AND SPECIFIC CONDITIONS.**

**Plans Entitled:** MIAMI YACHT SHOW
PREPARED FOR:
YACHTING PROMOTIONS, INC.

**Date Signed and Sealed:** 1/11/2022

**Project Location:** 801 Biscayne Boulevard, Miami

**Project Description:**

- Temporary installation of floating docks, tents, access ramps, floating wave attenuators, and associated piles for the creation of 70 temporary slips for the annual boat show. The 2022 boat show will be held on February 16, 2022 through February 20, 2022. Construction and demolition will be completed between January 17, 2022 and March 3, 2022.
- Authorization for the operation of water taxi services between the project location sites, the 1 Herald Plaza boat show, and the Island Gardens Marina.

**Attachment A: Mandatory Travel Routes**

**THIS PERMIT AND PLANS SHALL BE KEPT ON SITE DURING ALL PHASES OF CONSTRUCTION**

## Specific Conditions

1. **The applicant shall submit pre- and post-event environmental monitoring consisting of benthic surveys to DERM for review. The pre-event monitoring report shall be submitted a minimum of 7 days prior to the start of construction and the post-event monitoring report shall be submitted within 30 days of completion of demolition activities.**

2. **DERM shall be notified a minimum of 2 business days prior to the commencement of construction and 2 business days prior to the commencement of demolition activities. The contractor shall contact the Coastal Resources Section at (305) 372-6575.**

3. All vessels associated with the event shall use the designated travel routes as identified in **Attachment A** at all times when entering and existing the event.

4. Test operation of vessels (including sea trials and demonstrations) is strictly prohibited by the permit. All vessels occupying permitted slips for the boat show shall be secured to docks for the term of the show.

5. The work authorized in this permit, including all construction and demolition for the boat show, shall be performed within the 45-day period specified above in the project description. Failure to remove all vessels, structures, and other materials associated with the boat show from tidal waters by the specified time may result in enforcement action by DERM.

6. Adequate clearance shall be maintained at all times between the submerged bottom, and any existing benthic resources, and any vessels associated with the boat show, such that there are no impacts to benthic resources or the submerged bottom. This includes but is not limited to, bottom scouring or thruster/prop dredging throughout construction, operation, and demolition activities.

7. Turbidity controls shall be employed and maintained in the most effective manner possible to prevent turbidity from extending beyond the turbidity control mechanism in place. Failure to deploy and maintain the turbidity curtain or other turbidity control mechanism in the most effective manner possible may result in the issuance of a Uniform Civil Violation Notice (UCVN). Turbidity may not exceed 0 Nephelometric Turbidity Units (NTU) above background beyond the turbidity control mechanism in place. If turbidity levels exceed 0 NTU above background beyond the turbidity control mechanism, all construction shall be halted and additional turbidity controls implemented. The incident shall be immediately reported to the Coastal Resources Section Compliance and Enforcement Group at (305) 372-6575 and the work shall not resume until the contractor has received authorization from DERM.

8. Navigational reflectors shall be installed on the perimeter mooring piles in accordance with U.S. Coast Guard standards.

9. Construction and operation of the boat show shall not prevent vessels from navigating in the area. Potential navigational hazards to vessels traveling throughout the area shall be minimized by the use of day shapes and lights as required under federal law. All U.S. Coast Guard and Florida Marine Patrol requirements for navigation and vessel safety must be strictly adhered to. All structures that are potentially hazardous to the navigation of vessels throughout the area must be lighted and clearly visible at night.

10. The permittee and contractor shall alert marine vessels of waterway closures associated with the construction activities. This may include, but is not limited to, publishing a Local Notice to Mariners with the United States Coast Guard.

11. Pursuant to Section 24-48.3(9), the use or installation of unencapsulated polystyrene as defined in Section 24-5 shall be prohibited in connection with any work requiring a Class I permit. Pursuant to Section 24-48.221, for all facilities which are subject to a County marine facilities operating permit pursuant to this chapter, such permit shall require the removal, replacement or repair of any unencapsulated polystyrene where such polystyrene shows evidence of degradation, disintegration, shredding, or other damage, as determined in the discretion of the Director.

**THIS PERMIT AND PLANS SHALL BE KEPT ON SITE DURING ALL PHASES OF CONSTRUCTION**

12. Environmental controls and best management practices shall be implemented to prevent any unauthorized materials associated with the boat show, including any debris associated with construction and demolition activities, from entering tidal waters. Any material/debris that enters tidal waters shall be removed immediately and shall be disposed of in accordance with all federal, state and local regulations.

13. Trash containers with secured covers shall be provided at convenient locations throughout the project area for the disposal of any debris associated with the project. Containers shall be regularly maintained to prevent the overflow of their contents.

14. No live aboard vessels shall be permitted to be docked at the temporary permitted structures.

15. No bilge discharge within the project area shall result in iridescence on the water's surface.

16. The use of bilge cleaners or degreasers by vessels shall be prohibited while they are docked within the project area.

17. The fueling of vessels by any means is strictly prohibited within the project area.

18. There shall be no discharge of fuel, oil, sewage, or wastewater to tidal waters. The permittee shall advise all exhibitors and water taxi operators that the facility does not have a pumpout system and to address the proper disposal of sewage and wastewater prior to docking at the facility. The permittee shall take immediate corrective action in the event that any spill (e.g. oil or fuel) occurs. This shall include, but not be limited to the determination of the source of the spill and its elimination, the deployment of containment booms, and the spreading of absorbent materials for collection of the materials, and other appropriate measures. Appropriate boat show employees shall be trained in deployment and usage of the above mentioned spill clean-up equipment.

19. The facility is required to have a valid Marine Facilities Operating Permit (MOP) and to adhere to all conditions of said MOP prior to the operation of the facility, including the mooring of vessels. Information for this permit can be obtained from DERM at 305-372-6575.

20. The permittee shall ensure that copies of the Class I permit conditions and MOPs are provided to all vessel operators, including but not limited to, the contractor, exhibitors, and water taxi personnel prior to the operation of any vessels associated with the boat show. Written acknowledgement of the above from each vessel operator shall be submitted to DERM prior to the event.

21. All vessel operators, including but not limited to construction crews and water taxi captains, shall be required to maintain a daily log of manatee sightings that includes the following:

    - Location (geographical coordinates) where observed.
    - Time of day of observation.
    - Length of time observed.
    - Manatee behavior.
    - Action taken by vessel operator at the time of the sighting.

    The logs shall be submitted to DERM upon request and within 7 days of completion of the event.

22. Since the Florida manatee occurs in the waters adjacent to the property, the permittee and contractor shall take measures to protect manatees during and after the construction and during the event. Failure to comply with any of the below listed measures may result in revocation of all or a portion of the performance bond. These measures shall include the following:

    a) All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall 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.

b) Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the Florida Fish and Wildlife Conservation Commission (FWC) must be used (see MyFWC.com/manatee). One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 81/2" by 11" explaining the requirements for "Idle Speed/No Wake" and the shutdown of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. Questions concerning these signs can be sent to ImperiledSpecies@myFWC.com.

c) Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.

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

e) All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessel operations, must be shut down if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.

f) Any collision with or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com.

g) The contractor shall maintain a log detailing sightings, collisions, or injuries to manatees should they occur during the contract period. Following project completion, a report summarizing the above incidents and sightings shall be submitted to the Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute, 620 S. Meridian St., Tallahassee, Florida 32399-1600; to the U.S. Fish & Wildlife Service, 3100 University Blvd., Jacksonville, Florida 32216, and to DERM within 7 days of project completion.

23. As per the Miami-Dade County Manatee Protection Plan, any marine facilities mooring vessels greater than 100 feet in length shall be retrofitted with fender systems, which provide at least 4 feet of standoff at maximum compression. No vessels over 100 feet in length shall be allowed to moor at the facility prior to the installation of the DERM approved fender system that provides the minimum standoff.

24. Designated manatee observers shall be present when in-water work or activities are being performed. Manatee observers shall have experience in manatee observation and be equipped with polarized sunglasses to aid in observation. The manatee observers must be on-site during all in water construction activities and during vessel move-in and move-out and shall advise personnel to cease operation upon sighting a manatee within 50 feet of any in-water construction activity. Movement of a work barge, other associated vessels, or any in-water work shall not be performed after sunset, when the possibility of spotting a manatee is negligible.

25. Temporary use of the FEC slip for water taxis exclusively in association with the transportation plan for the boat show is authorized provided:

- The MOP for the FEC slip is modified to authorize the temporary use of the existing facility by water taxis exclusively in association with the transportation plan for the 2022 boat show;
- The use of the slip is authorized for not more than 5 days each year exclusively in association with the

transportation plan for the 2022 boat show;

- That a dedicated manatee observer whose sole responsibility is sighting manatees shall be onboard all water taxi vessels that access the FEC slip;
- If any impacts to manatees as a result of using the FEC slip are documented by DERM, service to and from the slip shall cease for the remainder of the event and will be prohibited during subsequent events.

26. Upon completion of the removal of all structures and equipment associated with the event from tidal waters a final inspection shall be conducted by DERM. If it is determined that any debris, structures, or equipment are required to be removed, the removal shall be completed by the permittee within 7 days of the DERM's notification. If impacts to resources are documented, the permittee shall be responsible for restoration and mitigation to meet DERM's requirements.

27. The permittee shall submit a comprehensive report after each boat show event, which shall address the operation of the boat show and demonstrate compliance with the conditions of the Class I permit. The report shall be submitted to DERM within 30 days of completion of demolition activities.

28. In order to mitigate for unavoidable water quality impacts associated with the 2022 boat show, mitigation in the form of limerock boulder riprap in an amount of one cubic yard of riprap per boat slip per event is required. This mitigation requirement can be satisfied either in the form of an appropriate mitigation project or a contribution to the Biscayne Bay Environmental Enhancement Trust Fund (BBEETF) in an amount equal to $90.00 per cubic yard of riprap required. The total amount of mitigation required will depend on the total number of slips ultimately created during the annual events. A mitigation bond in the amount of $6,300.00 shall be submitted annually prior to the commencement of the permitted work. If the permittee does not complete an acceptable mitigation project for water quality impacts, the commensurate portion of the bond will be retained and deposited into the BBEETF and used for the removal and disposal of derelict and abandoned vessels and other marine debris located within Biscayne Bay and its foreshores.

29. A performance bond in the amount of $100,000.00 shall be held to address any unanticipated adverse environmental impacts to benthic resources. Any environmental impacts shall be required to be restored and mitigated to meet DERM's requirements and may result in forfeiture or revocation of all or a portion of the performance bond without further notice. The required amount of the performance bond for future events shall be determined each year based on the site conditions as verified by DERM.

30. **Authorization for any subsequent boat show events shall require a written request for a modification to this Class I permit be submitted to DERM a minimum of 90 business days prior to the proposed start of construction.**

31. **If seeking authorization for subsequent boat show events under this permit, the permittee shall submit the following items annually, in addition to the written permit modification request:**

    - Performance Bond and/or Biscayne Bay Environmental Enhancement Trust Fund Contribution.
    - Site plans depicting dock and slip locations and dimensions.
    - Designated vessel travel routes and water taxi destinations.
    - Boat show event schedule.
    - Verification of Law Enforcement services.
    - Modification fee and associated Miami-Dade County surcharge.
    - Submerged lands authorization.

32. Please be advised that the federal government may have designated all or part of the subject property as critical habitat for one or more endangered species. You are not authorized to commence any work or activities pursuant

to this permit until you obtain any and all approvals or permits, if necessary, from the federal government pursuant to the Endangered Species Act and from the State of Florida pursuant to Florida law on endangered species. Please be advised that, even after work commences, if Miami-Dade County is advised by the federal government, the State of Florida, or a court that an activity on the subject property is in violation of the Endangered Species Act, in violation of Florida law on endangered species, or in violation of a permit or approval granted by the federal government pursuant to the Endangered Species Act, such violation may result in an immediate stop work order. You are strongly advised to consult with the United States Fish and Wildlife Service and any other necessary federal or state agencies before conducting any work or activities on the property. The Vero Beach office of the United States Fish and Wildlife Service may be reached at (772) 562-3909. Please be aware that the federal government may require certain actions or protections on the property, and this may result in the need to modify the plans for the property. Therefore, it is recommended that you consult with the United States Fish and Wildlife Service at an early stage in the process. In the event that the United States Fish and Wildlife Service advises that your plans for the subject property may result in a "take" of endangered or threatened species, you are strongly recommended to inform Miami-Dade County in writing at the earliest stage possible.

See General Permit conditions.

## General Permit Conditions

1. This permit does not eliminate the necessity to obtain any required federal, state, and local authorizations prior to the start of any activity approved by this permit. This permit is a regulatory approval and does not convey to the permittee or create in the permittee any property right or privilege, 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. In the event that any structure authorized hereunder is determined by a final adjudication issued by a court of competent jurisdiction to encroach on or interfere with adjacent riparian rights, the permittee agrees to either obtain written consent for the offending structure from the affected riparian owner or to remove the interference.

2. This permit shall be kept on-site during all phases of construction.

3. All work shall be performed in accordance with the above referenced plans and in accordance with the attached specific and general permit conditions. If a General Condition(s) conflicts with a Specific Condition(s) in this permit document, the Specific Condition shall be the controlling condition for work authorized by this permit.

4. This permit only authorizes the work described in page 1 under Project Description. Any additional work in, on, over or upon tidal waters at the property shall require additional Class I approval.

5. Any deviation from the approved plans for this project shall be submitted in writing to DERM prior to the commencement of work, and work may not commence without written acknowledgement of any deviation by DERM. The contractor and the permittee shall take whatever remedial action is necessary to bring the project into compliance with the permit and approved plans upon determination by DERM that the structure is not in compliance with such.

6. DERM shall be notified no later than 48 hours and no earlier than 5 days prior to the commencement of the work authorized by this permit, unless otherwise noted herein. The permittee and/or contractor may notify DERM by calling (305) 372-6575 or by submitting the attached Notice of Commencement of Construction via hand delivery, U.S. Mail, or email at dermcr@miamidade.gov.

7. Prior to performing any work, the contractor shall verify the location of all underground and overhead utility lines and verify that no utilities will be damaged by the work. Contact Sunshine State One-Call of Florida at 1-800-432-4770 or on the web at http://www.callsunshine.com/corp/before/submitting.html for locating underground utility lines.

**THIS PERMIT AND PLANS SHALL BE KEPT ON SITE DURING ALL PHASES OF CONSTRUCTION**

8. The permittee and the contractor are hereby advised that under Florida law, no person shall commence any excavation, filling, construction, or other activity involving the use of sovereign or other lands of the State, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund or the Florida Department of Environmental Protection (FDEP), until such person has received the required authorization for the proposed use from the Board of Trustees or FDEP. If such work is done without consent, or if a person otherwise damages state land or products of state land, the Board of Trustees may levy administrative fines of up to $10,000 per offense pursuant to the Florida Administrative Code.

9. The permittee and contractor shall obtain all required approvals from all local, state and federal agencies prior to performing the work authorized by this permit.

10. Trimming or alteration of mangroves or work in wetlands other than what is authorized by this permit is prohibited. Work not authorized by this permit or that is not explicitly exempt from permit requirements pursuant to the Mangrove Trimming and Preservation Act (403.9321-9334 F.S.) shall require additional Class I approval.

11. For any work involving mangrove trimming or alteration, if the subject Class I permit is revoked by DERM, or the state statute providing the exemption is modified or eliminated, the permittee shall be required to obtain a new permit from DERM prior to mangrove trimming or alteration.

12. All work authorized by this permit shall be performed by the contractor and/or subcontractor holding an applicable certificate of competency and shall be licensed in Miami-Dade County or the State of Florida to perform such work. Any work which is subcontracted shall require that the permittee and contractor (i.e. the contractor who is listed on this permit) notify the project manager at DERM at (305) 372-6575 or by email at dermcr@miamidade.gov a minimum of 72 hours prior to the subcontractor performing any work. Notification shall include the name of the subcontractor performing the work, the subcontractor's Miami-Dade County license number or state general contractor license number, and scope of work. Failure to comply with this condition is a violation of the Class I permit and may result in enforcement action DERM.

13. The contractor shall not store or place, even on a temporary basis, construction or demolition debris in tidal waters or wetlands and shall take all necessary precautions to prevent construction or demolition debris from falling into the water or adjacent wetlands. Any debris that falls into the water and/or adjacent wetlands shall be removed immediately. Construction and demolition debris shall be disposed of in accordance with all federal, state and local regulations.

14. Turbidity controls (including but not limited to turbidity curtains) shall be implemented whenever visible plumes are present to ensure compliance with the water quality standards stipulated in Section 24-42(3) of the Code of Miami-Dade County. Turbidity controls shall be employed and maintained around the location where work is actively occurring in the most effective manner possible to prevent turbidity from extending beyond the control mechanism in place.

15. Turbidity may not exceed 0 Nephelometric Turbidity Units (NTU) within the Aquatic Preserve or 29 NTU outside of the Aquatic Preserve, above background beyond the turbidity control device or 50 feet from any point of discharge. Turbidity levels shall be monitored. If the turbidity levels exceed the above standards, all construction shall stop and additional turbidity controls shall be implemented. Work shall not resume until the contractor has implemented adequate turbidity control methods and has received authorization from DERM to recommence work. At DERM's discretion, turbidity samples may be required to be collected in accordance with Section 24-44.2(3) of the Code of Miami-Dade County.

16. Environmental controls and best management practices shall be implemented to prevent any materials related to construction from entering the surrounding water. Any material removed as well as material applied to accomplish repairs must be contained so as to prevent fugitive particulates and/or discharge to surface waters. Any materials which fall into the water shall be removed immediately. The contractor shall ensure that no material is placed in the water either temporarily or permanently.

17. If any work or activity associated with this project is to take place in navigable waters, the contractor shall instruct all personnel associated with the project of the potential presence of manatees and the need to avoid collision

with manatees. All vessels associated with the project must operate at "Idle Speed/No Wake" at all times while in water where the draft of the vessel provides less than a 4 foot clearance from the bottom. Additionally, all vessels will follow routes of deep water whenever possible. All in-water construction activities shall cease upon the sighting of a manatee(s) within 50 feet of the project area and will not resume until the manatee(s) has departed the project area. Any collision with and/or injury to a manatee shall be reported immediately to the "Manatee Hotline" (1-888-404-FWCC), the U.S. Fish and Wildlife Service, Jacksonville Field Office (904) 791-2580, and DERM (305) 372-6864.

18. The contractor shall ensure that all vessels associated with the construction shall operate within waters of sufficient depth so as to preclude bottom scouring or prop dredging and shall maintain a minimum of 1 foot of water between the vessel bottom and submerged aquatic resources.

19. The contractor shall ensure that there are no impacts to seagrass, hard corals, or soft corals as a result of construction operations, such as, but not limited to, propeller scouring; and vessel or barge anchoring, grounding or spudding. The marine contractor and permittee shall be held jointly liable for any of these unauthorized impacts. For any impacts caused by the construction operation, DERM shall require, at a minimum, restoration and mitigation.

20. For the purposes of this permit, “vessel” is herein defined as any craft designed to float or navigate on water, including but not limited to: sailboats, powerboats, rowboats, boats, ships, skiffs, houseboats, personal watercraft and inflatable boats.

21. Pursuant to Section 24-48.10 of the Code of Miami-Dade County the work or structures authorized under this permit shall be privately maintained by the permittee, his successors and assigns. Whenever, in the opinion of the Director of the DERM, said work or structures are not maintained in such a manner so as to prevent deterioration to the extent that they become a hazard to the public or to navigation, or create an obstruction of flow, or prevent access for drainage maintenance purposes, or may damage adjacent property, then the owner is required to perform any necessary remedial work.

22. Unless otherwise authorized in this permit and pursuant to Sections 24-48.23 and 24-48.24 of the Code of Miami-Dade County, the installation or construction of non-water-dependent floating or fixed structures (e.g. covered structures, canopies, helicopter pads, commercial signs, etc.) is prohibited in, on, over or upon any of the tidal waters of Miami-Dade County and constitutes a violation of this permit. Failure to comply with this condition may subject the permittee to enforcement action without further warning.

23. A DERM Class II permit is required for the construction, installation, and/or alteration of any outfall or overflow system in, on, under or upon any water body of Miami-Dade County. In addition, a DERM Class V permit is required for any dewatering of groundwater, surface waters or water, which has entered into an excavation. The contractor shall contact the Water Control Section of DERM at (305) 372-6681 in order to obtain a Class II or Class V permit prior to the construction of any outfall or overflow system and prior to any dewatering activity.

24. The time allotted to complete the work for which this permit has been issued shall be limited to the period stipulated on the permit unless an extension of time is granted pursuant to Section 24-48.9(2) of the Code of Miami-Dade County. Applications for extensions of time shall be submitted to DERM at least 30 days prior to the date of permit expiration; incomplete or untimely applications for extensions of time will be returned to the permittee.

25. An application for Transfer of a Class I permit may be filed with DERM at any time prior to the transfer of property ownership up to 120 days after the date of transfer of fee simple ownership of the property that is the subject of the permit. The Application for Transfer must be signed by both the transferee and transferor. Applications for Transfer shall be filed in the form prescribed by DERM and shall not be processed if the filed Application for Transfer is not fully complete in all respects pursuant to Section 24-48.18, of the Code of Miami-Dade County within 120 days of the date of transfer of property ownership.

26. If the project involves construction, replacement, or repair of a seawall, the new seawall cap shall be a minimum of 6 inches above the final grade of the uplands immediately adjacent, and in order to prevent positive drainage of stormwater into the waterway, all uplands immediately adjacent to the new seawall shall be graded away from

the waterway.

27. To further reduce the possibility of injuring or killing a manatee during construction, work within portions of the Biscayne Canal, Little River, and the Coral Gables Waterway shall be performed only between May 1 and November 15.

28. A minimum of 1 foot of clearance shall be maintained at all times between the submerged bottom, and any existing benthic resources, and any vessels moored at the property.

29. Adequate clearance shall be maintained at all times between the submerged bottom, and any existing benthic resources, and any vessels moored at the property, such that there are no impacts to State or County water quality standards, even on a temporary basis, or to benthic resources or the submerged bottom, including but not limited to bottom scouring or prop dredging.

30. If railing is required to be installed pursuant to this permit, it shall be installed within 30 days of completion of the permitted work, and prior to the use of the structure(s) authorized by this permit, including the mooring of vessels.

31. A performance and/or mitigation bond may be held to ensure compliance with the aforementioned conditions and the completion of any required mitigation. Failure to comply with any of these conditions may result in the revocation by Miami-Dade County of all or a portion of the bond without further notice.

32. Pursuant to Section 24-48.3.(9), the use or installation of unencapsulated polystyrene as defined in Section 24-5 shall be prohibited in connection with any work requiring a Class I permit. Pursuant to Section 24-48.26, for all facilities which are subject to a County marine facilities operating permit pursuant to this chapter, such permit shall require the removal, replacement or repair of any unencapsulated polystyrene where such polystyrene shows evidence of degradation, disintegration, shredding, or other damage, as determined in the discretion of the Director.

**DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES**
**COASTAL RESOURCES SECTION**
**701 NW 1st Court, Ste 600, Miami, FL 33136**
**Phone 305-372-6575 Email dermcr@miamidade.gov**

## NOTICE OF COMMENCEMENT OF CONSTRUCTION

**PERMIT NO.:** _____

**PERMITTEE'S NAME:** _____

**PROJECT LOCATION:** _____

**PERMIT ISSUANCE DATE:** _____

**CONTRACTOR NAME:** _____

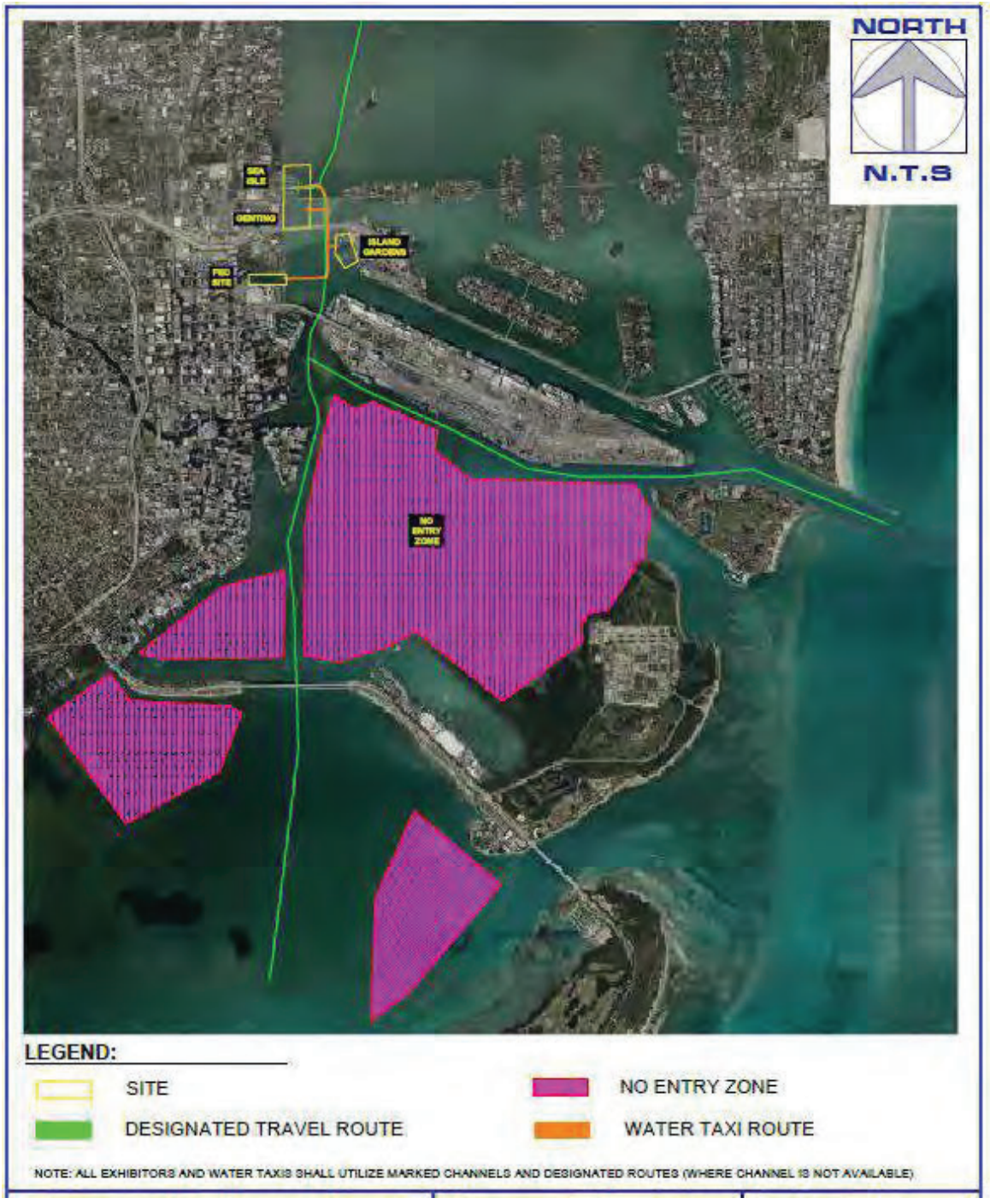
**PROPOSED DATE OF COMMENCEMENT:** _____

**ANTICIPATED DATE OF COMPLETION:** _____

**COMMENTS:** _____

**THIS PERMIT AND PLANS SHALL BE KEPT ON SITE DURING ALL PHASES OF CONSTRUCTION**

**Attachment A: Mandatory Travel Routes**




**THIS PERMIT AND PLANS SHALL BE KEPT ON SITE DURING ALL PHASES OF CONSTRUCTION**

# Attachment C

# DERM Inspection Reports

# COASTAL INSPECTION REPORT

| | |
|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 |
| **PROJECT NAME:** | Yachting Promotions, Inc. |
| **LOCATION:** | 1 Herald Plaza, 1635 N Bayshore Drive, & 1737 N Bayshore Drive Miami, Florida |
| **WATERWAY:** | Biscayne Bay |
| **PERMIT PROJ. MGR.:** | Tammy Burton |
| **DATE:** | January 19, 2022 **TIME:** 8:10 AM & 3:20 PM |
| **INSPECTOR(S):** | Damien Hamrick |

An inspection conducted at 1 Herald Plaza, 1635 N Bayshore Drive, & 1737 N Bayshore Drive, on January 19, 2022, at approximately 8:10 a.m., documented that the "No Entry" buoys and piles had not been installed in compliance with Class I permit CLI-2018-0071 and the associated Final Approved Plans. Specifically, the southernmost "No Entry" buoys were not present between the existing concrete platform and the uplands at 1 Herald Plaza, the two "No Entry" buoys were not installed between piers #2 and #3 within Sea Isle Marina, and the northernmost "No Entry" buoys, located to the north of the Sea Isle Marina, were installed significantly further to the northeast into Biscayne Bay. Note that only two "No Entry" piles were installed located between the between the Venetian Causeway and the existing concrete platform east of 1 Herald Plaza. In light of the above, the deficiencies were communicated on-site to an individual who identified himself as Matt of Informa (i.e., boat show personnel) which he acknowledged.

A follow-up inspection was conducted at the above referenced location, on January 19, 2022, at approximately 3:20 p.m., to document that the above-described deficiencies were addressed. The inspection revealed that the contractor has adequately deployed the required "No Entry" buoys and signage to indicate the four "No Entry" locations and was therefore in compliance with the Class I permit and final approved plans. Note that the contractor has installed a greater number of "No Entry" buoys in addition to "No Entry" signage than what is depicted on the final approved plans however the delineated area is consistent with the final approved plans.

See the attached photos.




Figure 1 & 2 – View from the uplands facing east/north depicting (5) “No Entry” buoys installed to the northeast of Pier 1 of Sea Isle Marina. Note that the “No Entry” buoys are further northeast than depicted on the Final Approved Plans.

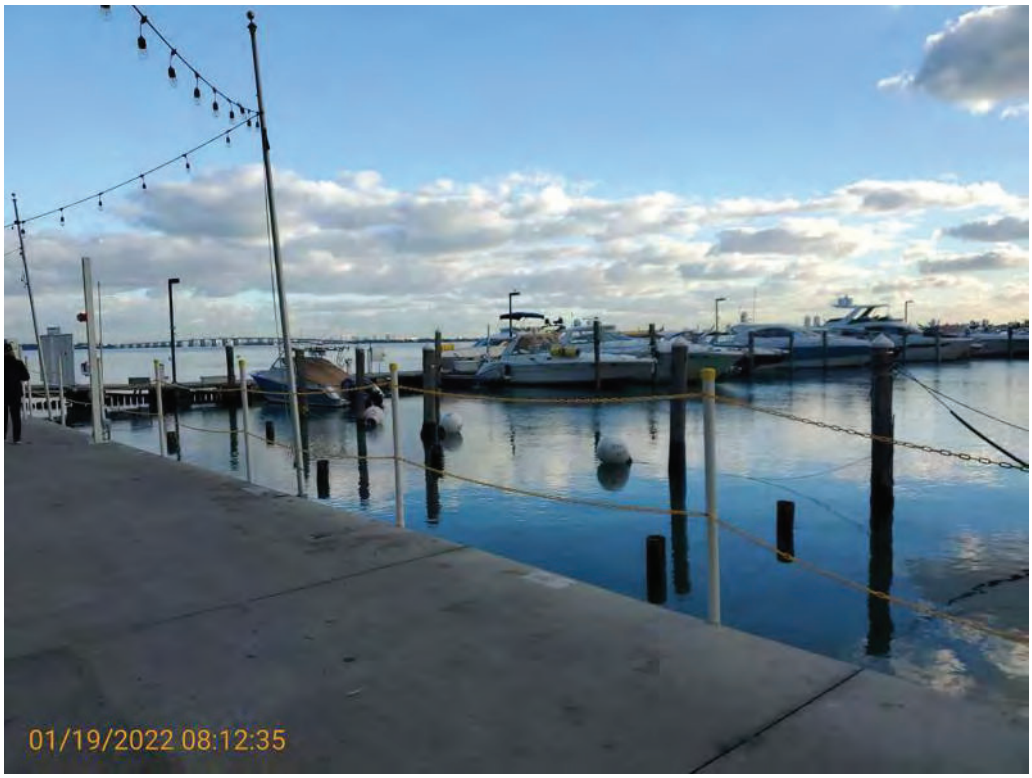


Figure 3 – View from the uplands facing northeast waterward depicting the “No Entry” buoys installed between Piers #1 and #2.

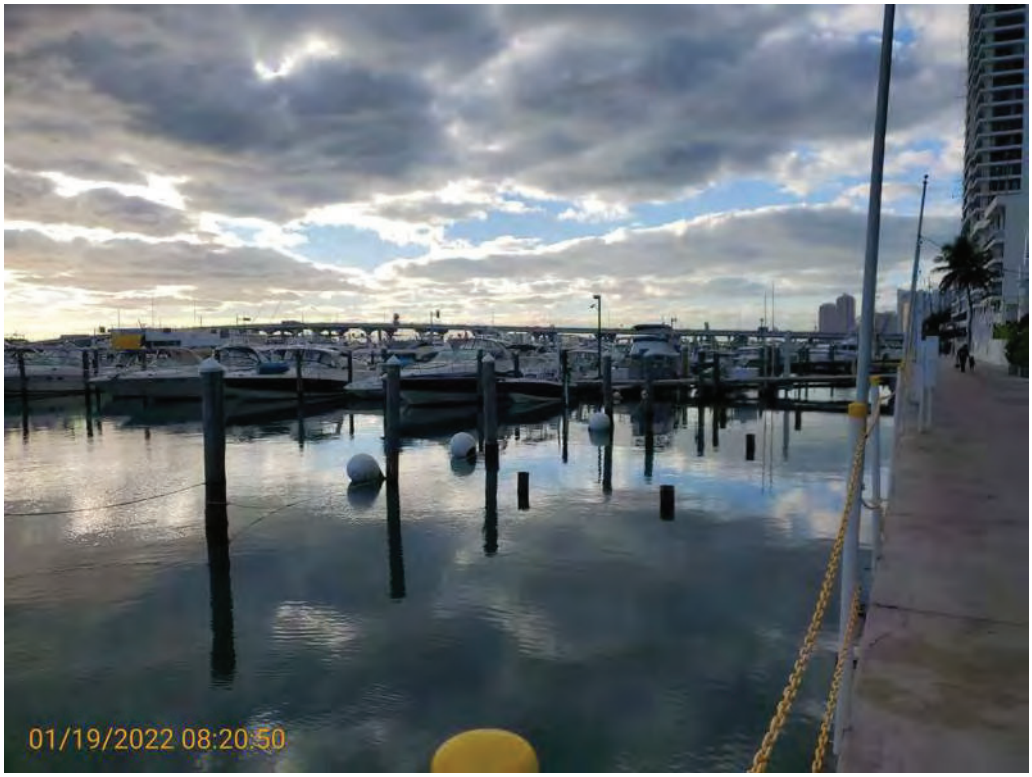


Figure 4 – View from the uplands facing southeast waterward depicting the “No Entry” buoys installed between Piers #1 and #2.

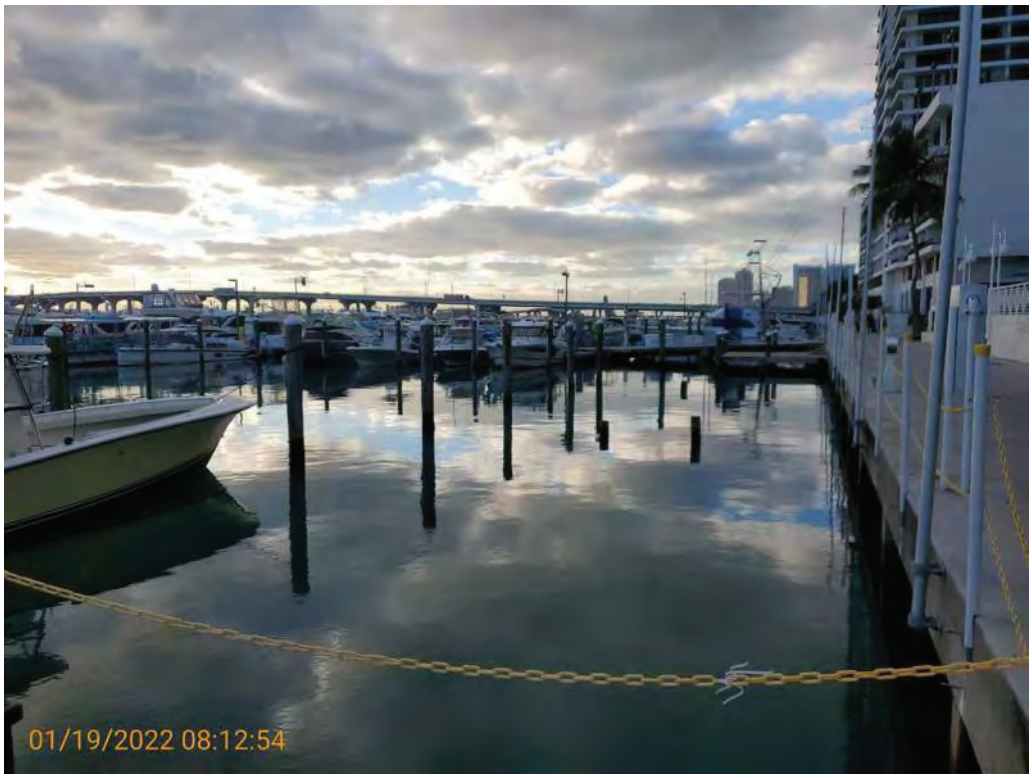


Figure 5 – View from the uplands facing southeast waterward depicting that the “No Entry” buoys were not installed between Piers #2 and #3 during the morning inspection.



Figure 6 – Close-up view of the “No Entry” buoys.



Figure 7 – View from the Venetian Causeway facing southeast depicting the (2) installed steel "No Entry" piles, "No Entry" buoys, and "No Entry" signage installed between the Venetian Causeway and existing platform east of 1 Herald Plaza.

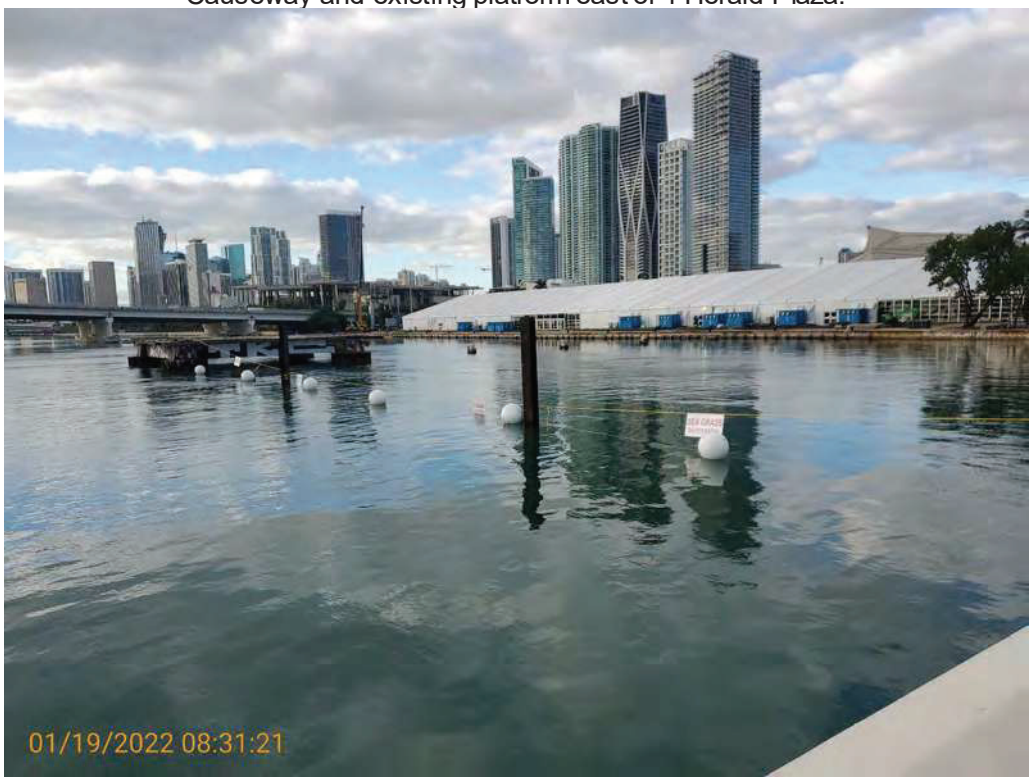


Figure 8 – View from the Venetian Causeway facing southwest depicting the installed "No Entry" piles/buoys/signage between the Venetian Causeway and the existing platform east of 1 Herald Plaza.



Figure 9 – Close-up view of the rope used to secure the “No Entry” buoys and signage attached to the Venetian Causeway.



Figure 10 – Close-up view of the “No Entry” signage utilized in association with the “No Entry” buoys.



Figure 11 – View from the Venetian Causeway facing south depicting that the “No Entry” buoys were not installed between the existing platform east of 1 Herald Plaza and the uplands during the morning inspection.

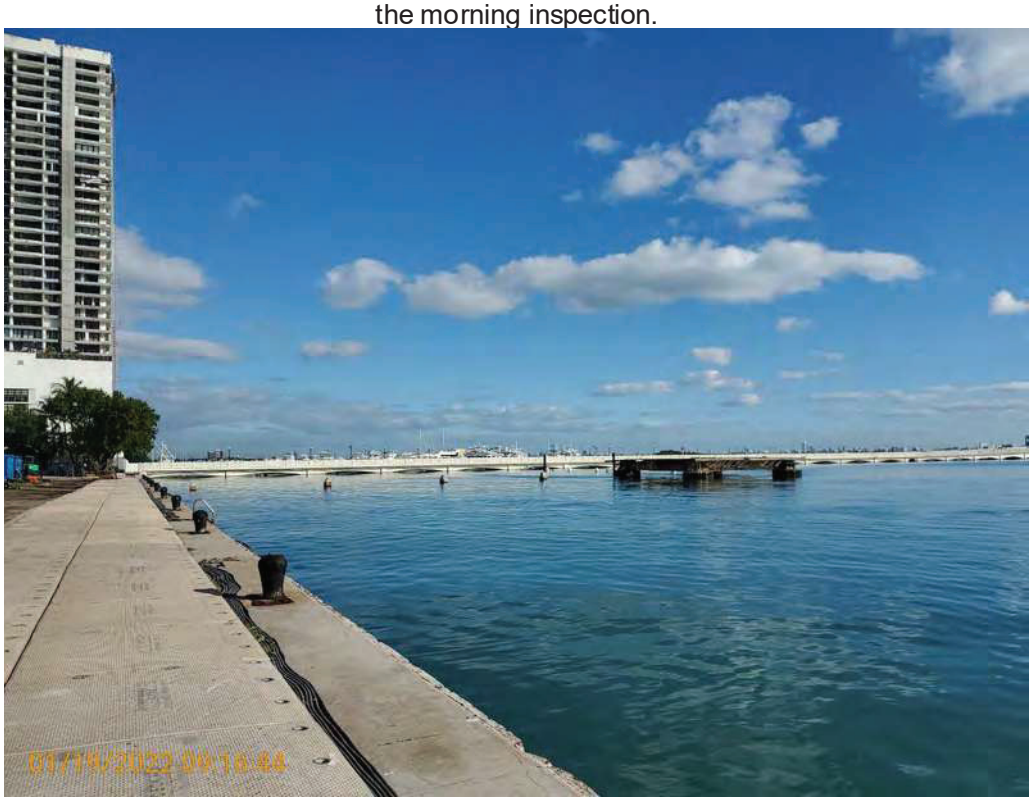

Figure 12 – View from 1 Herald Plaza facing northeast depicting that the “No Entry” buoys were not installed between the existing platform east of 1 Herald Plaza and the uplands during the morning inspection.




Figure 13 – View from the water facing from south to north at, approximately 3:20 p.m., depicting that (1) “No Entry” buoy and (1) “No Entry” sign has been installed between the existing platform east of 1 Herald Plaza and the uplands.




Figure 14 – View from the from the waterway facing from southeast to northwest depicting the installed “No Entry” piles/buoys/signage between the Venetian Causeway and the existing platform east of 1 Herald Plaza.




Figure 15 – View from the waterway facing from northeast to southwest depicting (3) installed “No Entry” buoys in the location identified on the Final Approved Plans located to the north of Pier 1 of Sea Isle Marina.



Figure 16 & 17 – View from the waterway facing west towards the uplands depicting the installed "No Entry" buoys located to the north of Pier 1 of Sea Isle Marina.



Figure 18 – View from the waterway facing west towards the uplands depicting the “No Entry” buoys installed between slips #2 & #3.



Figure 19 – View from the uplands facing northeast depicting the installed “No Entry” buoys between slips #2 & #3.



Figure 20 – View from the waterway facing west towards the uplands depicting the “No Entry” buoys installed between slips #1 & #2.

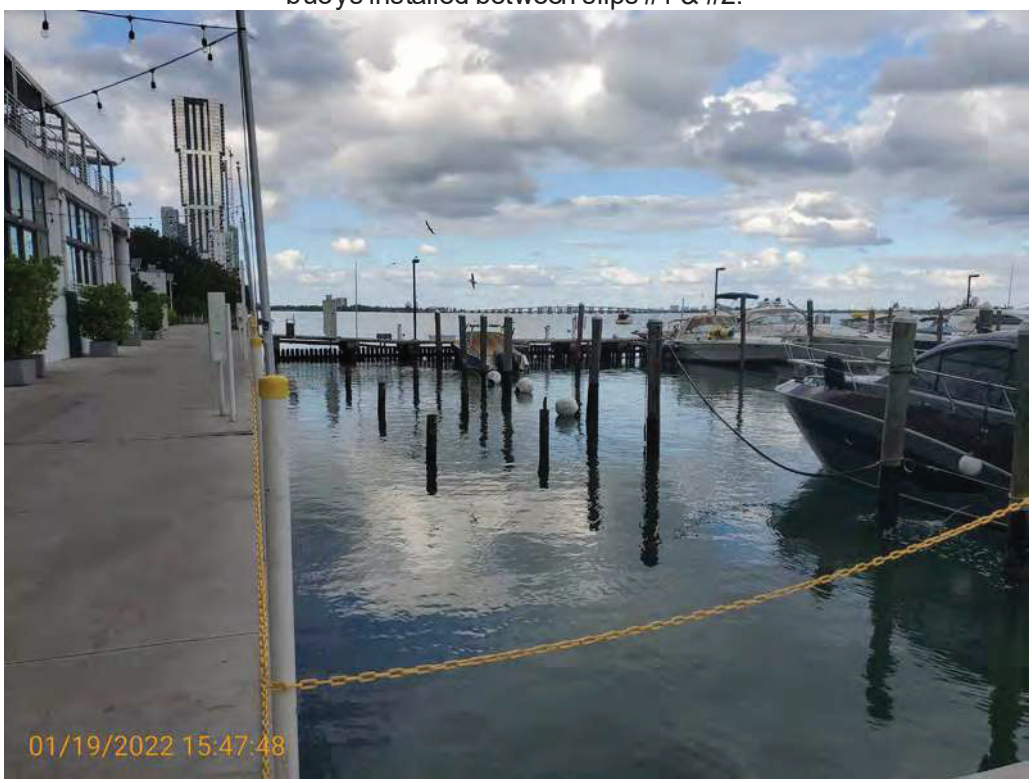


Figure 21 – View from the uplands facing northeast depicting the installed “No Entry” buoys between slips #1 & #2.

# COASTAL INSPECTION REPORT

| | | | |
|---|---|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 | | |
| **PROJECT NAME:** | Yachting Promotions, Inc. | | |
| **LOCATION:** | 1 Herald Plaza, 1635 & 1737 North Bayshore Drive<br>Miami, Florida | | |
| **WATERWAY:** | Biscayne Bay | | |
| **PERMIT PROJ. MGR.**: | Tammy Burton | | |
| **DATE:** | January 21, 2022 | **TIME:** | 12:30 PM |
| **INSPECTOR(S):** | Damien Hamrick & Felix Alvarez | | |

An inspection conducted at 1 Herald Plaza, 1636 North Bayshore Drive, and 1737 North Bayshore Drive, on January 21, 2022, at approximately 12:30 p.m., documented that the contactor of record, B&M Marine Construction, had commenced the installation of the temporary floating docks located adjacent to 1 Herald Plaza. Construction had not commenced east of 1636 and 1737 North Bayshore Drive. Note that the site was observed by vessel from the Intracoastal Waterway.

See the attached photos.



Figure 1 & 2 – View from the waterway facing west towards 1 Herald Plaza depicting that installation of the temporary floating docks has commenced.



Figure 3 – View from the waterway facing west towards 1 Herald Plaza depicting that installation of the temporary floating docks has commenced.



Figure 4 – View from the waterway facing west towards Sea Isle Marina depicting that installation of the temporary floating dock structures has not commenced east of 1635 / 1737 North Bayshore Drive.



Figure 5 – View from the waterway facing west towards Sea Isle Marina depicting that installation of the temporary floating dock structures has not commenced east of 1635 / 1737 North Bayshore Drive.

# COASTAL INSPECTION REPORT

| | | | |
|---|---|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 | | |
| **PROJECT NAME:** | Yachting Promotions, Inc. | | |
| **LOCATION:** | 1 Herald Plaza, 1635 & 1737 North Bayshore Drive<br>Miami, Florida | | |
| **WATERWAY:** | Biscayne Bay | | |
| **PERMIT PROJ. MGR.**: | Tammy Burton | | |
| **DATE:** | January 26, 2022 | **TIME:** | 2:20 PM |
| **INSPECTOR(S):** | Damien Hamrick & Felix Alvarez | | |

An inspection conducted at 1 Herald Plaza, 1636 North Bayshore Drive, and 1737 North Bayshore Drive, on January 26, 2022, at approximately 2:20 p.m., documented that the contactor of record, B&M Marine Construction, continues the installation of the temporary floating docks located adjacent to 1 Herald Plaza. Construction has not commenced east of 1636 and 1737 North Bayshore Drive. Note that a barge storing construction materials associated with the installation of the temporary floating structures has been relocated to a position southeast of Sea Isle Marina and west of the Intracoastal Waterway.

See the attached photos.




Figure 1 & 2 – View from the waterway facing west towards Sea Isle Marina depicting that the installation of the temporary floating dock structures has not commenced east of 1635 / 1737 North Bayshore Drive.



Figure 3 & 4 – View from the waterway facing west towards 1 Herald Plaza depicting that installation of the temporary floating docks is still in progress.

# COASTAL INSPECTION REPORT

**PERMIT NUMBER:** CLI-2018-0071

**PROJECT NAME:** Yachting Promotions, Inc.

**LOCATION:** 1 Herald Plaza, 1635 & 1737 North Bayshore Drive Miami, Florida

**WATERWAY:** Biscayne Bay

**PERMIT PROJ. MGR.**: Tammy Burton

**DATE:** January 28, 2022 **TIME:** 2:40 PM

**INSPECTOR(S):** Damien Hamrick

An inspection conducted at 1 Herald Plaza, 1636 North Bayshore Drive, and 1737 North Bayshore Drive, on January 28, 2022, at approximately 2:40 p.m., documented that the contactor of record, B&M Marine Construction, continues the installation of the temporary floating docks located adjacent to 1 Herald Plaza. Construction of the floating docks located to the east of 1636 and 1737 North Bayshore Drive has commenced. While on-site the daily manatee sighting logs were not available upon request. John Nigro of Informa informed me that the marine contractor employees of B&M Marine Construction had left for the day. Mr. Nigro contacted via telephone an individual who identified himself as "Glen" from B&M Marine Construction. Glen claimed that a daily manatee log was being maintained however was unavailable upon request at the time of the inspection as it was being stored on the barge. Additionally, he claimed that they were maintaining a designated manatee observer on-site when conducting in-water work however that individual(s) was not on-site as their employees had finished for the day. Note that temporary manatee caution signage as required by specific condition #27(b) was not observed on-site. I advised Mr. Nigro of specific condition #27 and recommended to review all conditions of the permit. He claimed he would order temporary manatee signage so that two signs will be present at each the Sea Isle Marina, 1 Herald Plaza location, the FEC Slip location, and signage attached to the secondary staging barge currently located near the Sea Isle Marina location.

See the attached photos.



Figure 1 & 2 – View of the temporary floating docks, tents, access ramps, and associated piles located to the east of 1 Herald Plaza in progress.



Figure 3 & 4 – View of the temporary floating docks, tents, access ramps, and associated piles located to the east of 1 Herald Plaza in progress.



Figure 5 & 6 – View of the temporary floating docks, tents, access ramps, and associated piles located to the east of 1 Herald Plaza in progress.



Figure 7 & 8 – View of the temporary floating docks, tents, access ramps, and associated piles located to the east of 1 Herald Plaza in progress.

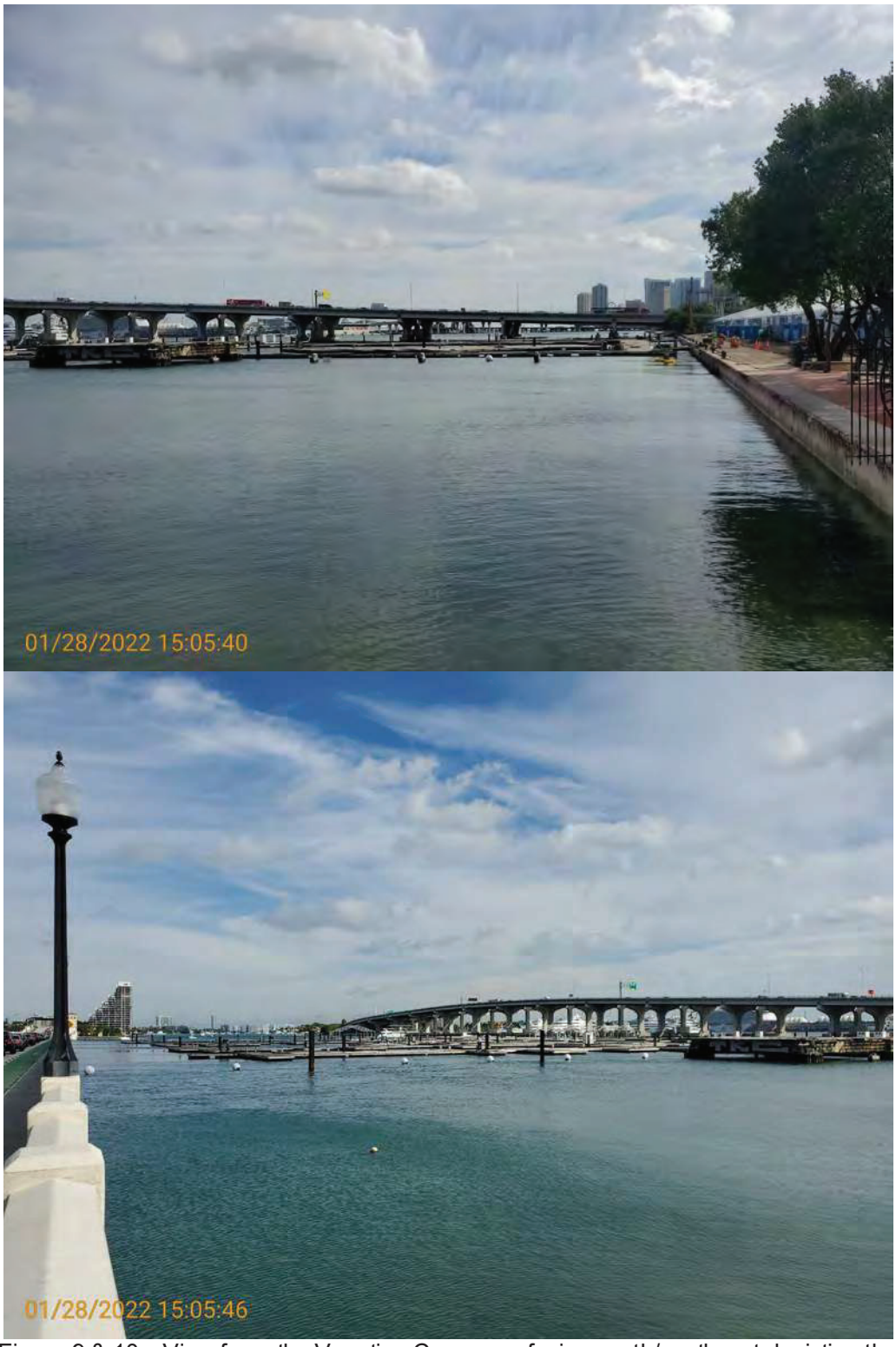



Figure 9 & 10 – View from the Venetian Causeway facing south/southeast depicting the temporary floating docks, tents, access ramps, and associated piles located to the east of 1 Herald Plaza in progress.



Figure 11 & 12 – View from the Venetian Causeway facing north/northeast depicting the installation of the temporary floating docks to the east of Sea Isle Marina in progress.




Figure 13 & 14 – View from the Venetian Causeway facing north/northwest depicting the installation of the temporary floating docks to the east of Sea Isle Marina in progress.




Figure 15 & 16 – View from the Venetian Causeway facing north depicting the installation of the temporary floating docks to the east of Sea Isle Marina in progress.

# COASTAL INSPECTION REPORT

| | | | |
|---|---|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 | | |
| **PROJECT NAME:** | Yachting Promotions, Inc. | | |
| **LOCATION:** | 1 Herald Plaza, 1635 & 1737 North Bayshore Drive Miami, Florida | | |
| **WATERWAY:** | Biscayne Bay | | |
| **PERMIT PROJ. MGR.**: | Tammy Burton | | |
| **DATE:** | January 31, 2022 | **TIME:** | 11:15 AM |
| **INSPECTOR(S):** | Damien Hamrick | | |

An inspection conducted of the project site located east of 1636 North Bayshore Drive and 1737 North Bayshore Drive, on January 31, 2022, at approximately 11:15 a.m., documented that the "No Entry" buoys required by Specific Condition #33 of Permit Modification #2 were not maintained in all locations specified by Class I permit CLI-2018-0071. Specifically, the northernmost "No Entry" buoys located to the north of Sea Isle Marina were observed further to the northeast than their authorized location. The buoys appear to have migrated as a result of wave and wind influence. Additionally, the "No Entry" buoys located between piers #1 and #2 within Sea Isle Marina were not properly secured in a manner to clearly identify the "No Entry" area. Note that the "No Entry" buoys located between piers #2 and #3 within the Sea Isle Marina and the southernmost "No Entry" area located east of 1 Herald Plaza remain properly maintained to identify the "No Entry" areas. Also, during the inspection a loose turbidity curtain was observed within the southernmost "No Entry" area located to the east of 1 Herald Plaza.

While on-site, John Nigro of Informa was advised of the deficiencies regarding the "No Entry" buoys. He claimed the buoys would be immediately relocated to their specified locations as per the Final Approved Plans and that they would inspect the buoys more frequently to avoid further non-compliance. Mr. Nigro was reminded that the buoys shall be secured in a manner so as not to cause unauthorized damage to the bay bottom and sensitive benthic resources. Mr. Nigro was also advised of the loose turbidity curtain observed within the southernmost "No Entry" area. He claimed it would be removed immediately.

The inspection revealed that the contractor of record, B&M Marine Construction, while conducting in-water work associated with the temporary floating docking structure located to the east of 1 Herald Plaza failed to have a designated manatee observer present on-site as required by specific condition #29. Furthermore, the contractor failed to provide to DERM upon request the daily log of manatee sightings as required by specific condition #26. Consequently, a Field Notice of Non-Compliance (FNONC) was issued to the permittee, Yachting Promotions, Inc, and to the contractor, B&M Marine Construction, Inc. The FNONC includes orders to cease and desist from

all in-water work upon receipt of the Notice until a designated manatee observer(s) is present on-site and authorization from DERM has been received to re-commence. The FNONC was signed for and received on-site by John Nigro, Director of Operations, of Informa.

Note that two temporary manatee signs were observed on-site, located on the barge where active in-water work was in progress to the east of 1 Herald Plaza. Mr. Nigro states that he has ordered more temporary manatee signage so that two signs will be present at each the Sea Isle Marina, 1 Herald Plaza location, the FEC Slip location, and signage attached to the secondary staging barge currently located near the Sea Isle Marina location.

See the attached photos.




Figure 1 & 2 – View from the uplands facing east waterward depicting the northernmost "No Entry" buoys located to the north of Sea Isle Marina have moved further to the east than the location depicted on the final approved plans associated with Class I permit CLI-2018-0071 Modification #2.



Figure 3 – View from the waterway facing from north to south depicting the northernmost “No Entry” buoys located to the north of Sea Isle Marina.

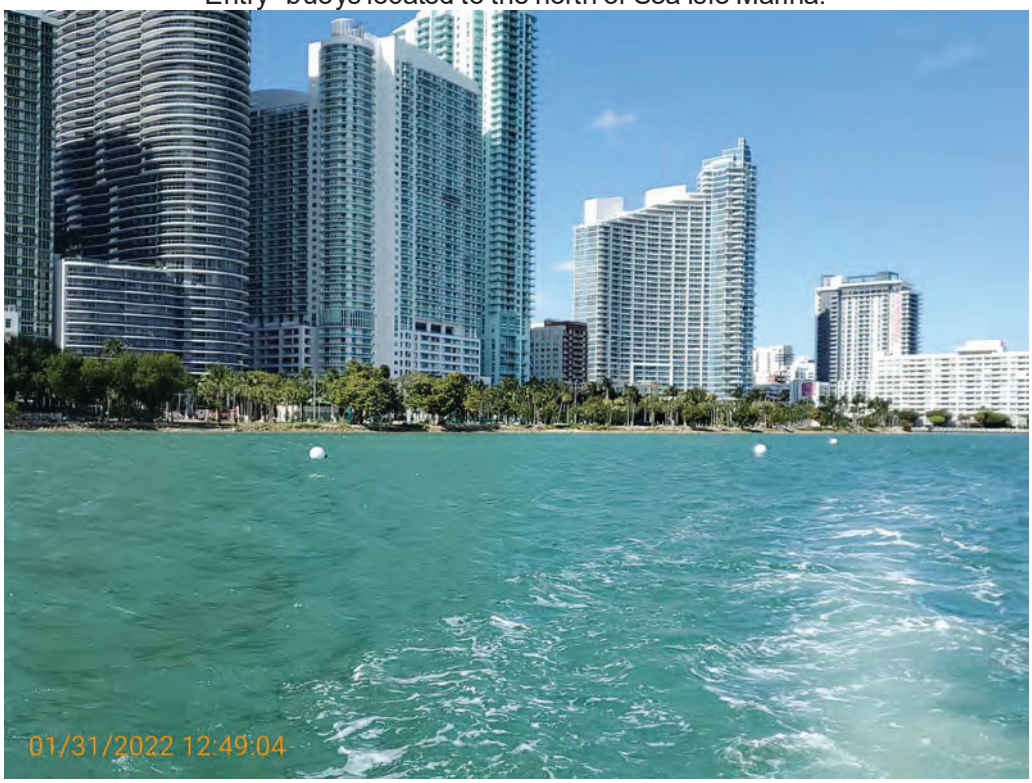


Figure 4 – View from the waterway facing from south to northwest depicting the northernmost “No Entry” buoys located to the north of Sea Isle Marina.



Figure 5 – View facing from north to south depicting the “No Entry” buoys between Piers #1 and #2 are not properly secured as depicted on the Final Approved Plans.



Figure 6 – View facing from south to north depicting the “No Entry” buoys between Piers #1 and #2 are not properly secured as depicted on the Final Approved Plans.



Figure 7 – View facing from north to south depicting the “No Entry” buoys located between Piers #2 and #3.



Figure 8 – View facing from south to north depicting the “No Entry” buoys located between Piers #2 and #3.

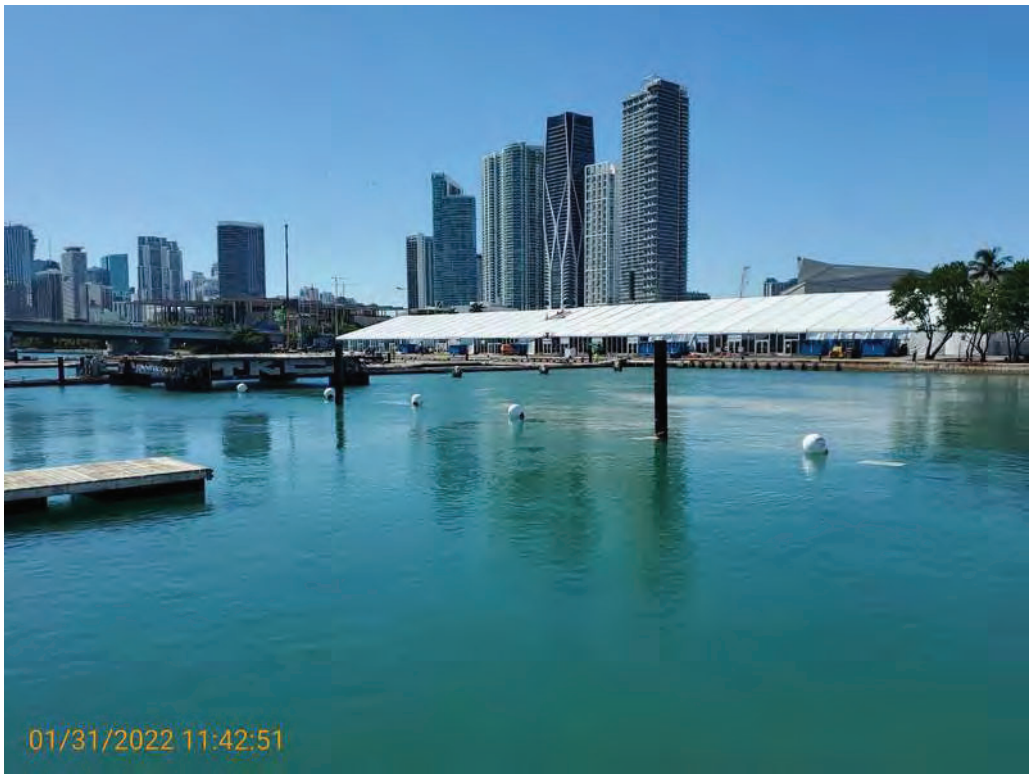


Figure 9 – View from the Venetian Causeway facing southwest depicting the “No Entry” piles, buoys, and signage delineating the southernmost “No Entry” area as depicted on the Final Approved Plans.

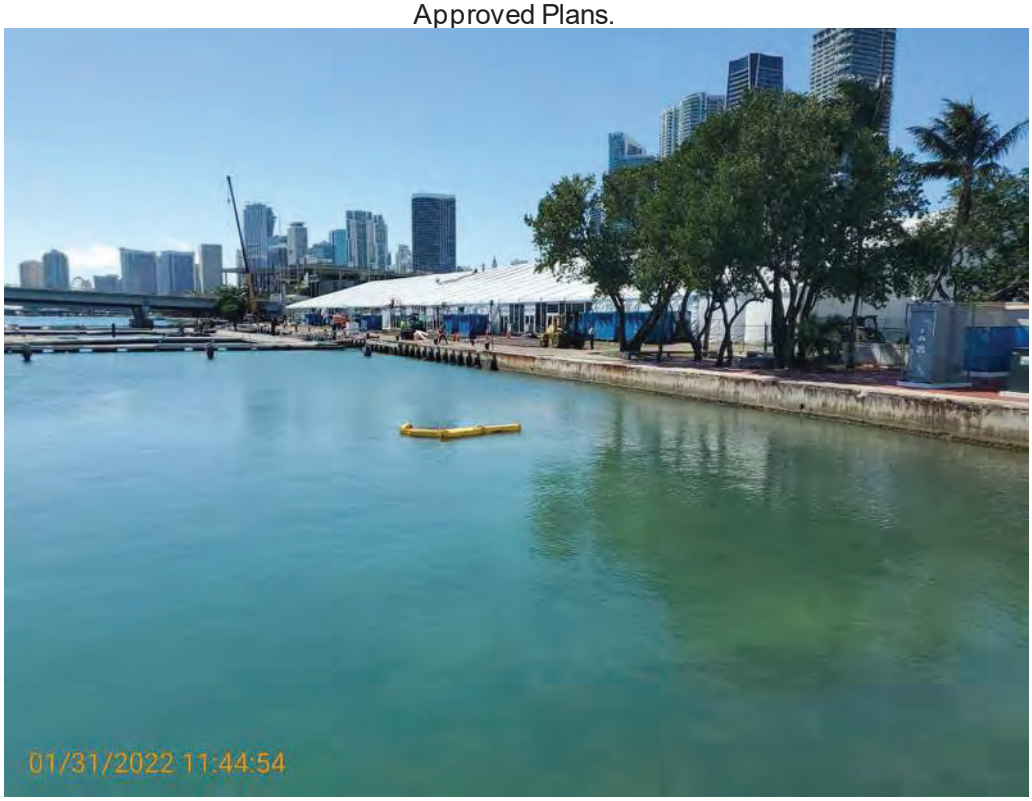


Figure 10 – View from the Venetian Causeway facing south depicting a loose turbidity curtain located within the southernmost “No Entry” area.



Figure 11 – View from the waterway facing west towards Sea Isle Marina depicting that the installation of the temporary floating docks is in progress.



Figure 12 – View from the waterway facing from north to south depicting a barge containing construction materials moored at the eastern side of the temporary floating dock installed adjacent to Sea Isle Marina.




Figure 13 – View from the waterway facing from northwest to southeast depicting the installation of the temporary floating docks in progress adjacent to Sea Isle Marina.

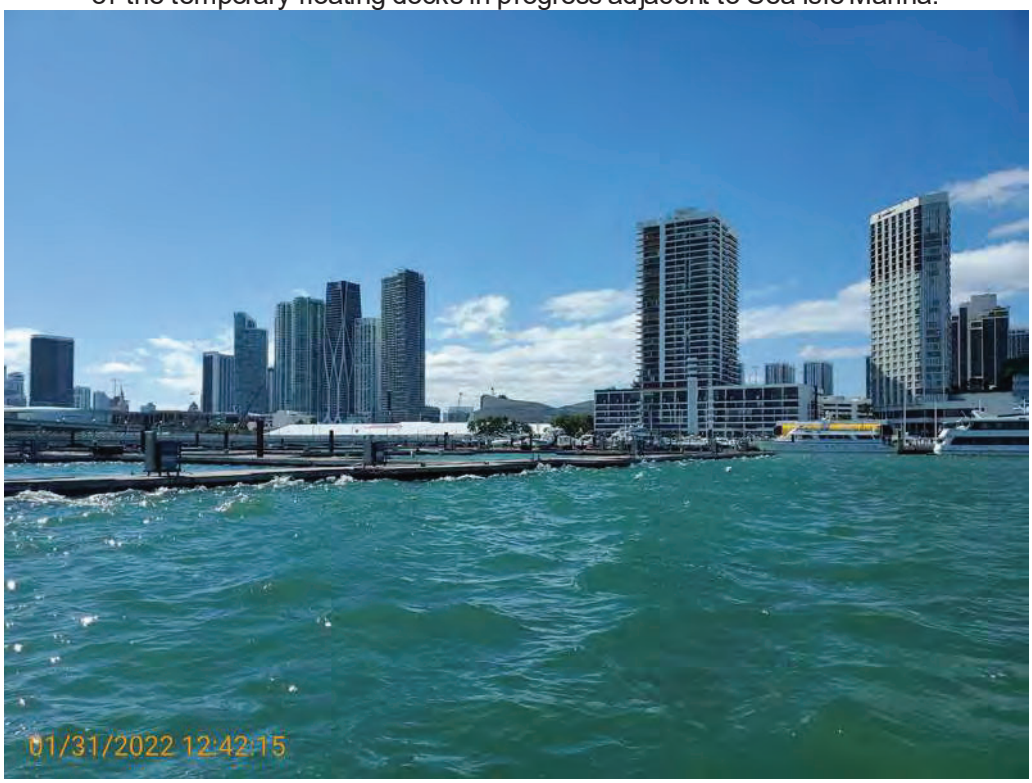



Figure 14 – View from the waterway facing from northeast to southwest depicting the installation of the temporary floating docks in progress adjacent to Sea Isle Marina.




Figure 15 & 16 – View from the Venetian Causeway facing north/northeast waterward depicting the installation of the temporary floating docks in progress adjacent to Sea Isle Marina.




Figure 17 & 18 – View from the Venetian Causeway facing south depicting the installation of the temporary floating docks, tents, access ramps, and associated piles to the east of 1 Herald Plaza.

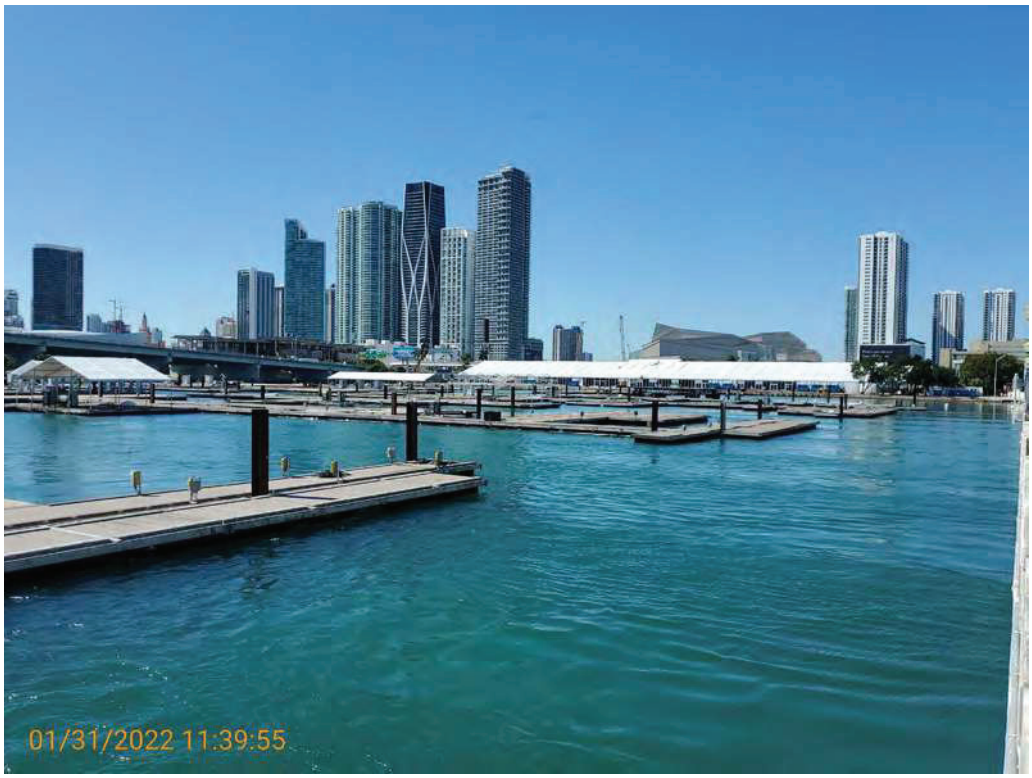



Figure 19 & 20 – View from the Venetian Causeway facing south/southwest depicting the installation of the temporary floating docks, tents, access ramps, and associated piles to the east of 1 Herald Plaza.



Figure 21 – View from the waterway facing from east to west towards 1 Herald Plaza depicting the southeasternmost corner of the temporary floating dock installation.




Figure 22 – View from the waterway facing from south to north depicting the barge located to the east of 1 Herald Plaza facilitating the installation of the temporary floating docks.

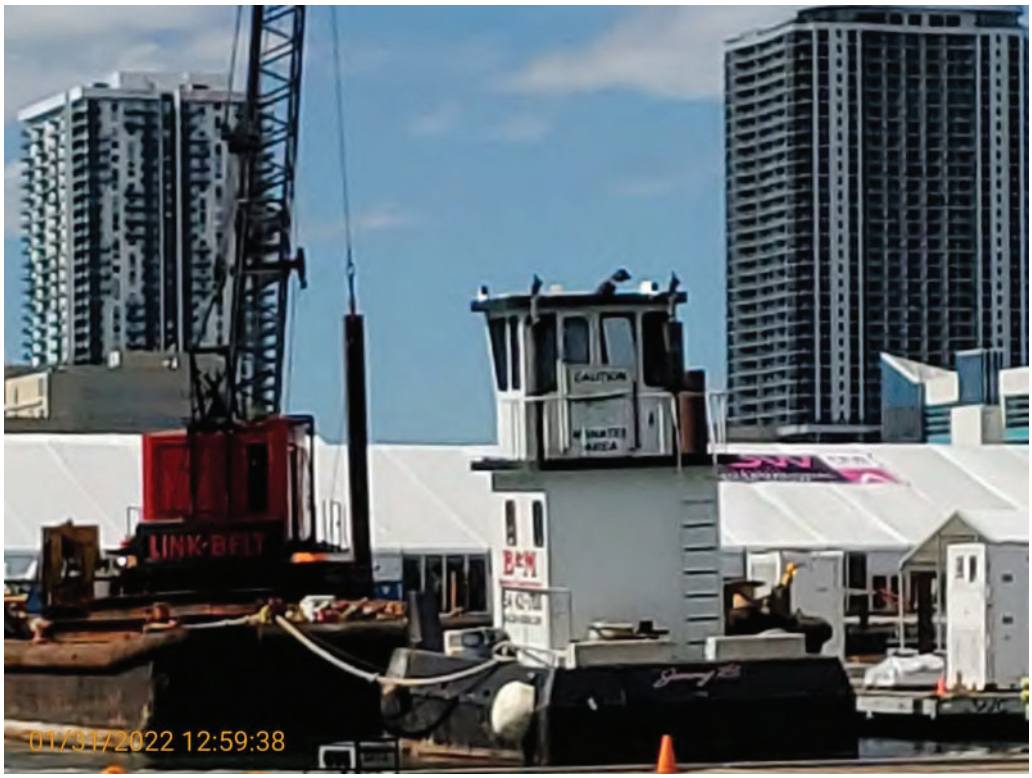




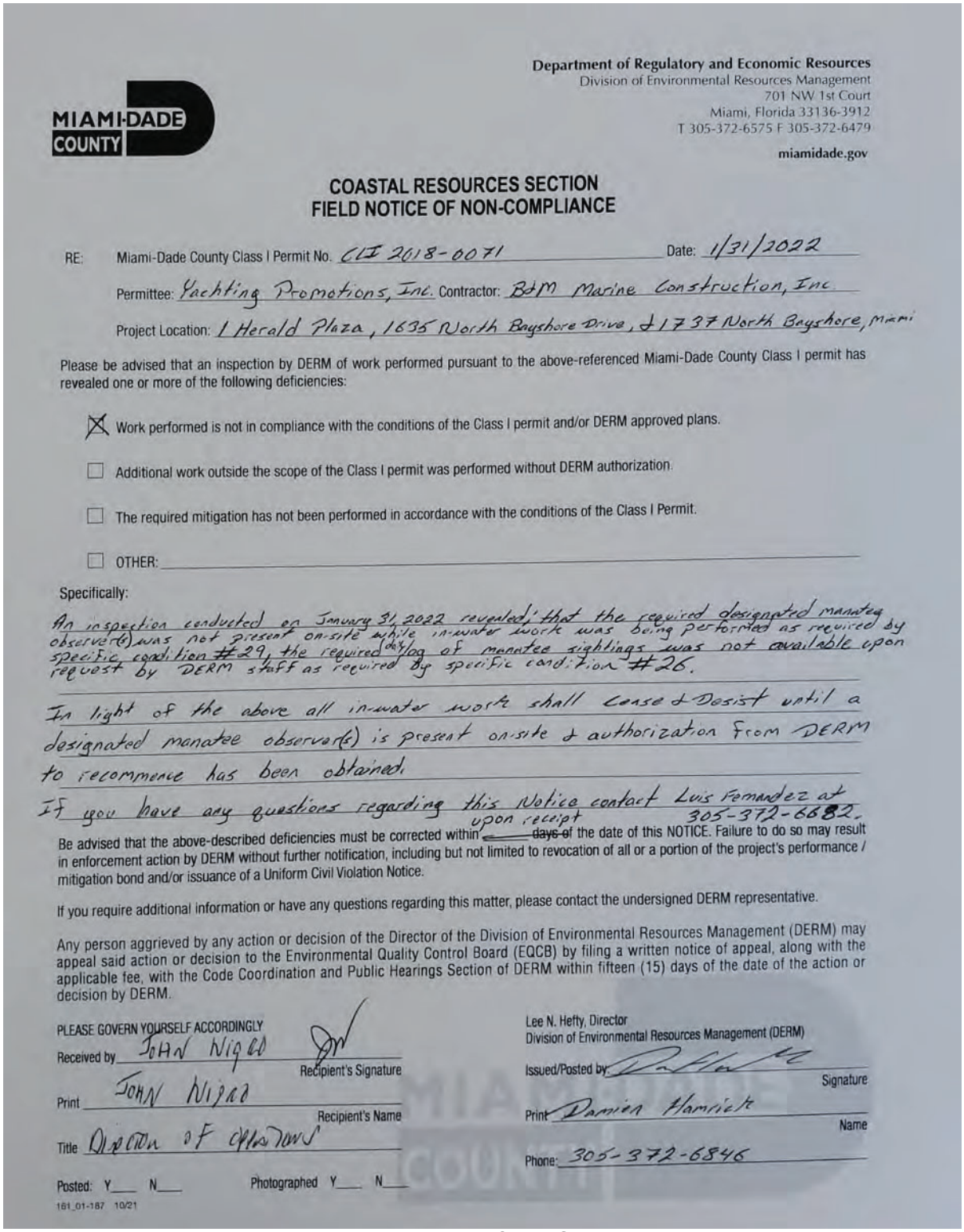
Figure 23 & 24 – Close-up view of the B&M Marine Construction Barge located to the east of 1 Herald Plaza depicting a “Caution Manatee Area” sign.



Figure 25 – View from the temporary floating docks at the southern side of the installation facing from east to west depicting the contractor’s barge located on-site facilitating the installation of the docks.



Figure 26 – Close-up view of the second Manatee Caution signage present on the barge located to the east of 1 Herald Plaza.



Department of Regulatory and Economic Resources
Division of Environmental Resources Management
701 NW 1st Court
Miami, Florida 33136-3912
T 305-372-6575 F 305-372-6479
miamidade.gov

MIAMI-DADE COUNTY

**COASTAL RESOURCES SECTION**
**FIELD NOTICE OF NON-COMPLIANCE**

RE: Miami-Dade County Class I Permit No. CLI 2018-0071 Date: 1/31/2022

Permittee: Yachting Promotions, Inc. Contractor: B&M Marine Construction, Inc

Project Location: 1 Herald Plaza, 1635 North Bayshore Drive, & 1737 North Bayshore, Miami

Please be advised that an inspection by DERM of work performed pursuant to the above-referenced Miami-Dade County Class I permit has revealed one or more of the following deficiencies:

☒ Work performed is not in compliance with the conditions of the Class I permit and/or DERM approved plans.

☐ Additional work outside the scope of the Class I permit was performed without DERM authorization.

☐ The required mitigation has not been performed in accordance with the conditions of the Class I Permit.

☐ OTHER: _____

Specifically:

An inspection conducted on January 31, 2022 revealed that the required designated manatee observer(s) was not present on-site while in-water work was being performed as required by specific condition #29, the required daily log of manatee sightings was not available upon request by DERM staff as required by specific condition #26.

In light of the above all in-water work shall Cease & Desist until a designated manatee observer(s) is present on-site & authorization from DERM to recommence has been obtained.

If you have any questions regarding this Notice contact Luis Fernandez at 305-372-6682. upon receipt

Be advised that the above-described deficiencies must be corrected within ~~days of~~ the date of this NOTICE. Failure to do so may result in enforcement action by DERM without further notification, including but not limited to revocation of all or a portion of the project's performance / mitigation bond and/or issuance of a Uniform Civil Violation Notice.

If you require additional information or have any questions regarding this matter, please contact the undersigned DERM representative.

Any person aggrieved by any action or decision of the Director of the Division of Environmental Resources Management (DERM) may appeal said action or decision to the Environmental Quality Control Board (EQCB) by filing a written notice of appeal, along with the applicable fee, with the Code Coordination and Public Hearings Section of DERM within fifteen (15) days of the date of the action or decision by DERM.

PLEASE GOVERN YOURSELF ACCORDINGLY

Received by JOHN NIGRO _____ Recipient's Signature

Print JOHN NIGRO _____ Recipient's Name

Title DIRECTOR OF OPERATIONS

Posted: Y___ N___ Photographed Y___ N___

Lee N. Hefty, Director
Division of Environmental Resources Management (DERM)

Issued/Posted by: _____ Signature

Print Damien Hamlett _____ Name

Phone: 305-372-6846

161_01-187 10/21

Figure 27 – Field Notice of Non-Compliance.

# COASTAL INSPECTION REPORT

| | | | |
|---|---|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 | | |
| **PROJECT NAME:** | Yachting Promotions, Inc. | | |
| **LOCATION:** | 1 Herald Plaza, 1635 & 1737 North Bayshore Drive Miami, Florida | | |
| **WATERWAY:** | Biscayne Bay | | |
| **PERMIT PROJ. MGR.:** | Tammy Burton | | |
| **DATE:** | February 1, 2022 | **TIME:** | 10:15 AM |
| **INSPECTOR(S):** | Luis Fernandez | | |

On January 31, 2022 a Notice of Non-Compliance was issued to Yachting Promotions, Inc for non-compliance with Specific Conditions #26 and #29 of Class I permit CLI-2018-0071 which required a designated manatee observer be present when in-water work or activities are being performed. In addition, the manatee observer was required to maintain a manatee log and be able to provide it to DERM staff upon request. In light of the above, authorized work was ordered to cease and desist until the above deficiencies are addressed.

On February 1, 2022 a follow up inspection was performed at the above referenced location in order to verify compliance with the Notice of Non-Compliance (NONC) issued on January 31, 2022. I was met by Jason Schaeber, B & M Marine Construction superintendent, and John Nigro of Informa. I reviewed the Class I permit and associated conditions with both gentlemen and confirmed that a manatee observer with a manatee log was now present on-site. The inspection also revealed that the required no entry buoys located at the north end of Sea Isle Marina were properly secured and remained located in the required locations per the Class I permit Final Approved Plans. Authorization to proceed work was given to John Nigro of Informa.

At approximately 12:10 p.m., while inspecting the in-water work associated with the temporary floating docks east of 1 Herald Plaza along the seawall by B & M Marine Construction, I observed three (3) manatees swimming within fifty (50) of the work area. I immediately indicated to the construction crew to cease and desist all in-water work. The manatees were observed for approximately thirty (30) minutes within the area and work remained temporarily suspended during this time. Consequently, and to avoid further work interruptions, Mr. Nigro made the decision to cease all in-water work for the remainder of the day and sent his construction crew home.

See attached photos.



View facing east of south end of 1 Herald Plaza where temporary floating docks are deployed from the uplands.



View of manatee awareness sign adjacent to construction area.



View facing south of south end of 1 Herald Plaza where temporary floating docks are deployed from the uplands.



View facing east of 1 Herald Plaza of temporary floating docks.



View facing north along 1 Herald Plaza of temporary floating docks.



View facing southeast and east of 1 Herald Plaza of temporary floating docks.



View facing south and east of 1 Herald Plaza of temporary floating docks.



View facing east of 1 Herald Plaza of temporary floating docks.



View facing south and east of 1 Herald Plaza of marine contractor responsible for the temporary floating dock installation.



View of caution manatee sign on crane.



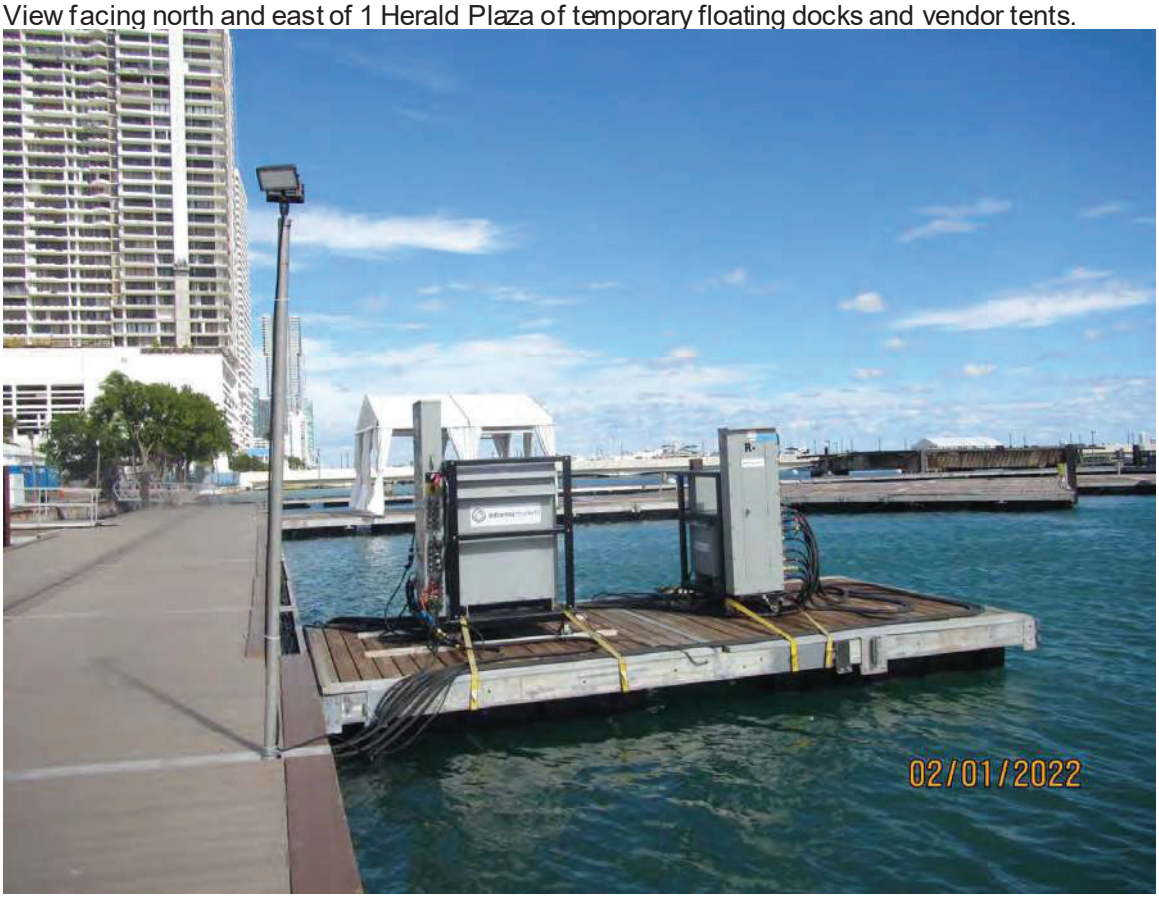
View facing south and east of 1 Herald Plaza of temporary floating docks.



View facing north and east of 1 Herald Plaza of temporary floating docks.



View facing north and east of 1 Herald Plaza of temporary floating docks and vendor tents.



View facing north along east side of 1 Herald Plaza of temporary floating docks and power supply.



View facing east of 1 Herald Plaza of temporary floating docks and no entry buoys.

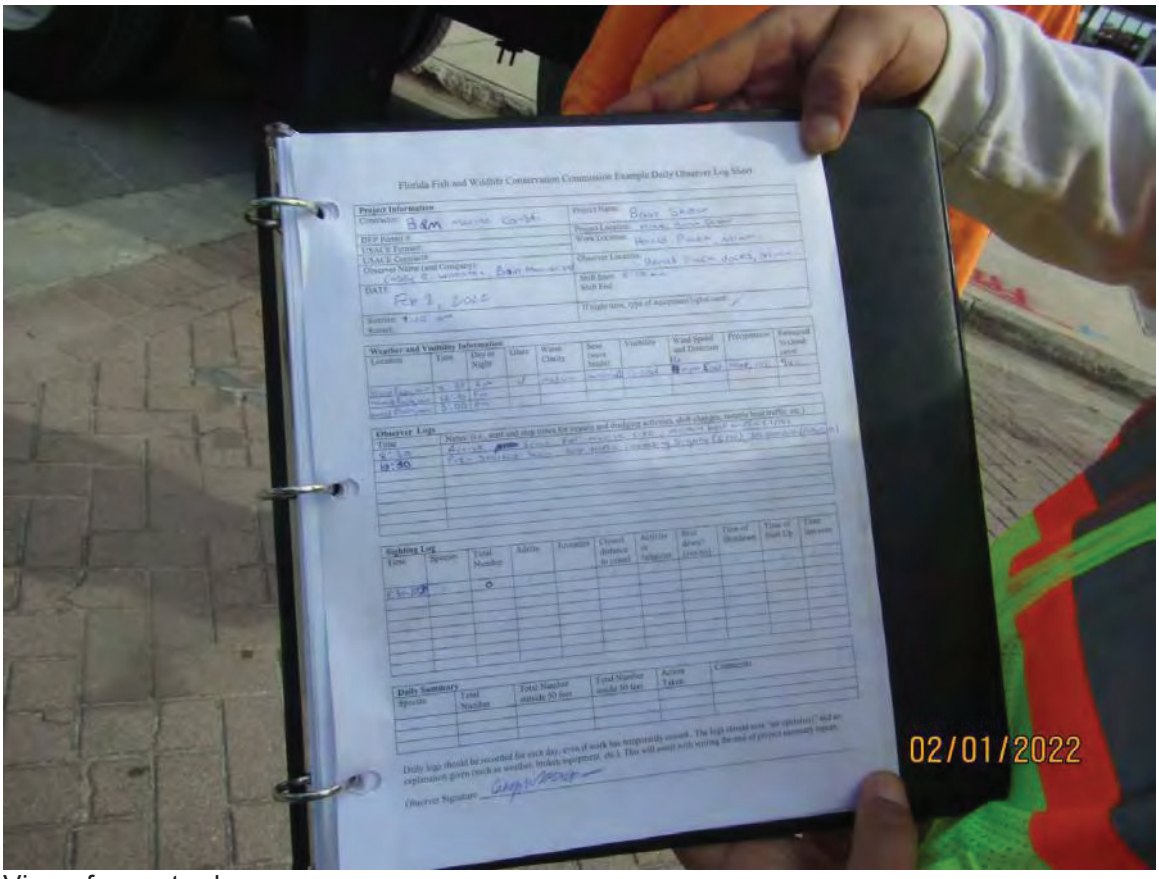


View facing north and east of 1 Herald Plaza of temporary floating docks and no entry piles and buoys.



View facing west and east of 1 Herald Plaza of no entry piles and buoys.





View of manatee log.



View of manatee educational sign at pier entrance of Sea Isle Marina.



View facing north of no entry buoys at Sea Isle Marina.



View facing south of no entry buoys at Sea Isle Marina.



View facing north of no entry buoys at Sea Isle Marina.



View facing east of no entry buoys at north end of Sea Isle Marina.



View facing south along 1 Herald Plaza of in-water construction area after Informa ceased operations for the day due to manatee sightings.

# COASTAL INSPECTION REPORT

**PERMIT NUMBER:** CLI-2018-0071

**PROJECT NAME:** Yachting Promotions, Inc.

**LOCATION:** 1 Herald Plaza, 1635 & 1737 North Bayshore Drive Miami, Florida

**WATERWAY:** Biscayne Bay

**PERMIT PROJ. MGR.:** Tammy Burton

**DATE:** February 7, 2022 **TIME:** 2:00 PM

**INSPECTOR(S):** P. Alvarez & D. Hamrick

An inspection was conducted of the project site located east of 1636 North Bayshore Drive and 1737 North Bayshore Drive, on February 7, 2022, to document the progress of the authorized work and verify that the manatee conditions are being adhered to. The inspection revealed that the contractor of record, B&M Marine Construction, while conducting in-water work associated with the temporary floating docking structure located within all three sites had the required manatee provisions in-place as per the specific conditions. I called John Nigro, Director of Operations of Informa, to advise him of my inspection. See attached photos.



Figure 1 – View is south to north at the east edge of the FEC slip




Figure 2 – View is east to west of the east edge of the FEC slip

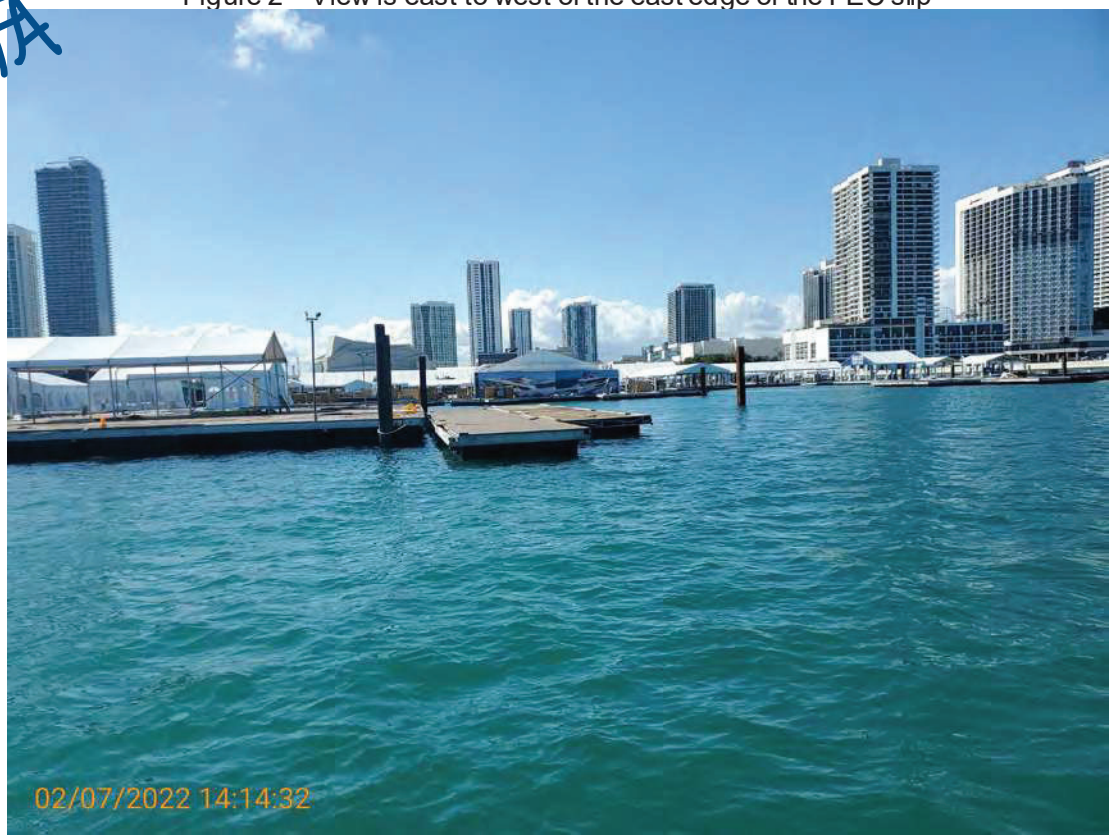


Figure 3 – View is east to west of the Herald Site taxi slip




Figure 4 – View is east to west of the installed wave attenuators at Sea Isle Marina

# COASTAL INSPECTION REPORT

**PERMIT NUMBER:** CLI-2018-0071

**PROJECT NAME:** Yachting Promotions, Inc.

**LOCATION:** 555 NE 15th Street – Marriott/Sea Isle Marina

**WATERWAY:** Biscayne Bay

**PERMIT PROJ. MGR.:** Tammy Burton

**DATE:** February 11, 2022 **TIME:** 10:35 AM

**INSPECTOR(S):** Luis Fernandez

On February 11, 2022 the department received a complaint of sediment runoff/turbidity plume along the southern end of the seawall behind the Marriott Hotel and adjacent to Sea Isle Marina located at 555 NE 15th Street. The complainant indicated that the sediment runoff may possibly be associated with current construction activities at the Marriott Hotel and/or associated with the construction activities related to 2022 boat show event (CLI-2019-0071).

In response to the above complaint, on February 11, 2022 at approximately 10:35 a.m., I performed a follow up inspection along the southern end of the seawall at 555 NE 15th Street. At the time of the inspection, sediment runoff/turbidity plume was not observed and water quality and visibility appeared good. Construction activities associated with the 2022 boat show event were not occurring at the location provided by the complainant and no other construction activities in the area appeared to be negatively impacting tidal waters at the time of the inspection. After inspecting the southern end of the seawall behind the Marriot Hotel, I proceeded to inspect the northern seawall ends of 1 Miami Herald Plaza and Sea Isle Marina to ensure sediment runoff/turbidity plumes were not present at these locations. No signs of sediment runoff/turbidity plumes were observed at the above locations.

After responding to the above complaint, I proceeded to inspect the 2022 boat show event construction activities (CLI-2018-0071) at both the 1 Herald Plaza and Sea Isle Marina sites. No issues were documented at the time of the inspection.

See attached photos.




View is south along southern seawall end/outfall of Marriott Hotel. No sediment runoff/turbidity observed. Existing riprap rock boulders.



View is east along southern seawall end/outfall of Marriott Hotel. No sediment runoff/turbidity plume.




View is east along seawall and the middle of Marriott Hotel/Sea Isle property. No sediment runoff/turbidity plume.







View facing north of Pier 3 of Sea Isle Marina. Construction activities associated with 2022 boat show event.



View is north along Sea Isle Marina. No entry buys observed. No sediment runoff/turbidity plume.



View is north along Sea Isle Marina. No entry buys observed. No sediment runoff/turbidity plume.



View is east between Piers 1 and 2 of Sea Isle Marina. No entry buys observed. No sediment runoff/turbidity plume.



View is east between of Pier 1 of Sea Isle Marina. No sediment runoff/turbidity plume.



View is east north of Piers 1 of Sea Isle Marina. No entry buys observed. No sediment runoff/turbidity plume.



View is north of Sea Isle Marina along seawall. No sediment runoff/turbidity plume.







View is north along north end of seawall at 1 Herald Plaza. No sediment runoff/turbidity plume.



View is east at north end of seawall at 1 Herald Plaza. No sediment runoff/turbidity plume.



View is south along north seawall end at 1 Herald Plaza. No sediment runoff/turbidity plume.



View is east along seawall at 1 Herald Plaza. No sediment runoff/turbidity plume.



View facing south along seawall at 1 Herald Plaza of temporary floating docks.



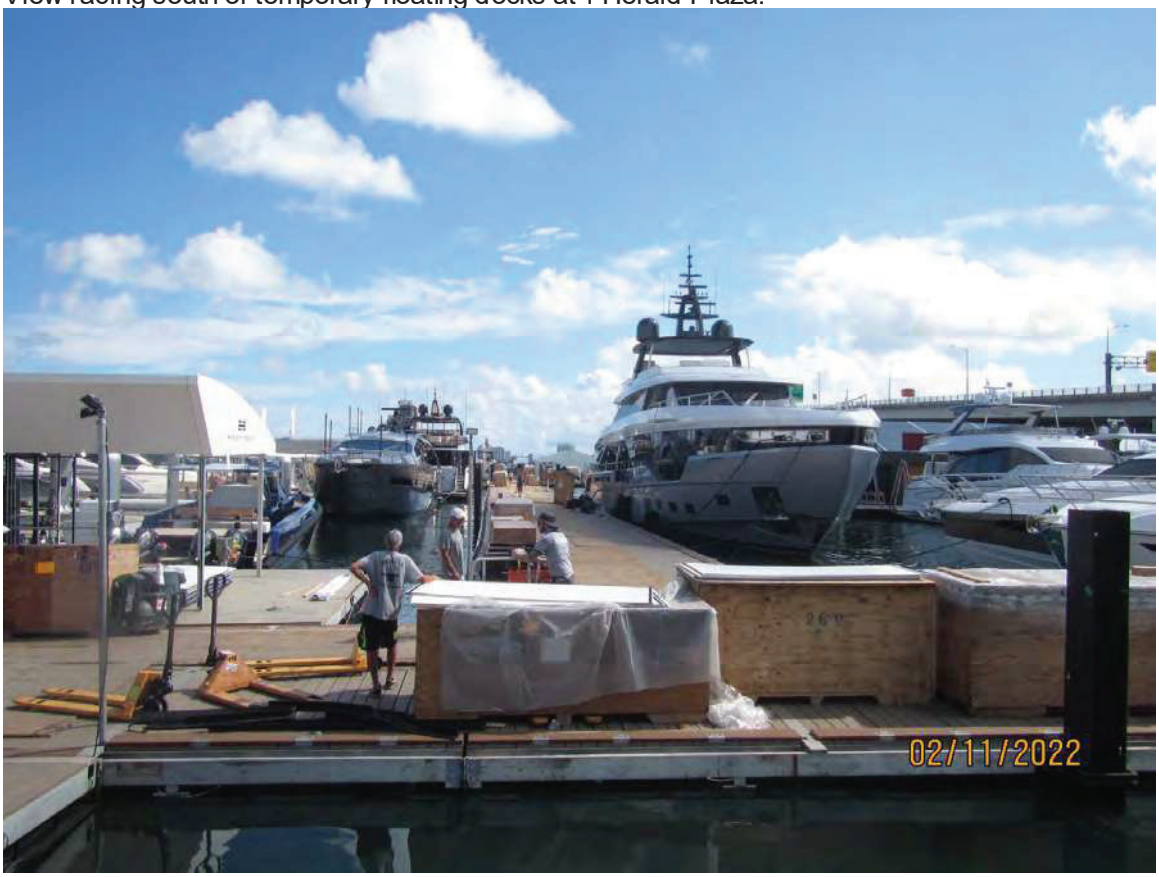
View facing east along seawall at 1 Herald Plaza of no entry area/buoy and temporary floating docks.



View facing east of temporary floating docks at 1 Herald Plaza.



View facing south of temporary floating docks at 1 Herald Plaza.



View facing east of temporary floating docks and vendor material/equipment at 1 Herald Plaza.



View facing south of temporary floating docks at 1 Herald Plaza.



View facing east of temporary floating docks and vendor material/equipment at 1 Herald Plaza.



View facing west of temporary floating docks at 1 Herald Plaza.



View facing east of temporary floating docks and vendor material/equipment at 1 Herald Plaza.



View facing south of temporary floating docks at 1 Herald Plaza.



View facing north of temporary floating docks and vendor tents at 1 Herald Plaza.



View facing north of temporary floating docks at 1 Herald Plaza.



View of boat show vessels







View facing south of temporary floating docks and vendor material/equipment at 1 Herald Plaza.



View facing north of temporary floating docks, electrical power station, and vendor tents.



View facing south of temporary floating docks and vendor tents.



View of plastic bags of floating debris/trash collected.



View facing west of temporary floating docks and electrical power station.



View facing west of no entry area.



View facing northwest from Venetian Bridge of boat show overview at Sea Isle Marina.



View facing north of temporary floating docks and wave break at Sea Isle Marina.







View facing north of temporary floating docks and wave break at Sea Isle Marina.







View facing north of temporary floating docks and wave break at Sea Isle Marina.


02/11/2022

# COASTAL INSPECTION REPORT

| | |
|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 and CLI-2021-0344 |
| **PROJECT NAME:** | Yachting Promotions, Inc. |
| **LOCATION:** | 1 Herald Plaza<br>Sea Isle Marina – 1635 North Bayshore Drive<br>FEC Slip – 801 Biscayne Blvd. |
| **WATERWAY:** | Biscayne Bay |
| **PERMIT PROJ. MGR.:** | Tammy Burton |
| **DATE:** | February 16, 2022 **TIME:** 9:30 a.m. – 5:30 p.m. |
| **INSPECTOR(S):** | Luis Fernandez, Felix Alvarez, Damien Hamrick, Ken Cathey, and Michelle Metcalf |

On January 14, 2022, a modification to Class I permit CLI-2018-0071 was issued to Yachting Promotions, Inc for the annual Miami International Boat Show taking place between February 16, 2022 and February 20, 2022. The authorized work included:

- Temporary installation of floating docks, tents, access ramps, and associated piles for the creation of 650 temporary slips for the annual boat show.
- Installation of 3 “No Entry” piles as indicated on the final approved plans.
- Installation of 10 “No Entry” marker buoys secured by helix anchors as indicated on the final approved plans.
- Installation of 2 “No Mooring” signs along the floating docks as indicated on the final approved plans.
- Installation of wave breaks consisting of steel barges along the southern and northeastern boundaries of the submerged lands lease as indicated on the DERM final approved plans.
- Authorization for the operation of water taxi services between the project location sites, the FEC Slip, and the Island Gardens Marina.
- Authorization for a maximum of 150 sea trial slips within the existing Sea Isle Marina.

On February 16, 2022, DERM staff consisting of five (5) inspectors from the Coastal Resources Section performed inspections via land and water throughout all three authorized boat show locations between the hours of 9:00 a.m. and 5:30 p.m. Staff observations and actions taken throughout the day are below:

Sea Isle Marina/1 Herald Plaza/FEC Slip (inspected via land):

- Upon arrival at Sea Isle Marina, sea trial vessels were documented without the required placards being displayed on their starboard side at the start of the event.
- Private/commercial vessels not associated with the boat show were observed dropping-off passengers at Sea Isle Marina.
- Private vessels from Island Gardens Marina were observed entering 1 Herald Plaza to attempt the drop-off of passengers but were denied dockage by DERM staff.
- Designated manatee observers were not on board on all water taxis while in operation at the start of the event and taxi staff was unable to provide manatee logs when requested.
- A majority of the over-water garbage cans did not have lids throughout all three boat show locations at the start of the event and throughout the day.
- An unencapsulated polystyrene work platform utilized by a detailing service company was observed in use at the FEC slip at two different vendor locations.

Sea Trial Route (inspected via water):

- Designated manatee observers were not observed on the smaller water taxis.
- Sea trial vessels were documented without the required placards displayed.
- Private vessels not associated with the boat show were observed multiple times dropping off passengers at Sea Isle Marina.
- Private vessels from Island Gardens Marina that were not associated with the boat show were observed multiple times attempting to enter 1 Herald Plaza in order to drop off passengers.

DERM staff communicated non-compliance issues with boat show personnel from Informa throughout the day.

Below is a summary of DERM observations and actions taken by DERM staff and boat show personnel:

Shortly after the start of the boat show event, DERM staff contacted show personnel from Informa to advise them the sea trial vessel placards were not displayed on the starboard side of the sea trial vessels as required by the Class I permit. Show personnel claimed they were unaware of the requirement and only had instructed sea trial captains to keep the placards on board. However, boat show personal acknowledged the requirement and indicated they would instruct all sea trial vessel to display the placards. By midday, sea trial vessel placards began to be displayed on some of the sea trial vessels, but not all.

DERM staff contacted boat show personnel from Informa and the manager for the water taxi service to address the designated manatee observer requirement. The manager from the water taxi service indicated the second crew member on the three larger water taxi vessels was acting as the designated manatee observer while they coordinated with Informa staff to receive and disperse the manatee observers being provided by Informa. Initially, the two smaller water taxi boats only had a captain and no observer. Shortly after, manatee observers were provided as required with logs and observed on all water taxi vessels.

DERM staff contacted show personnel from Informa with regards to the majority of the garbage cans not having lids, Informa responded that they would address the matter. Custodial staff was observed throughout the day servicing the garbage cans and occasionally removing trash from the water with a net. Small items of trash were found periodically in the water. By the end of the first day of the show, many of the over-water garbage cans remained without lids.

With regards to private vessels entering boat show locations at 1 Herald Plaza and Sea Isle Marina to drop-off passengers, boat show personnel from Informa and Law Enforcement were made aware of the situation. In addition, DERM staff members communicated with several boat captains that this activity was not authorized by the boat show nor the Class I permit.

Overall, the show set up was found clean, organized, and with good housekeeping. No evidence of vessel repairs, fueling activities, chemical/petroleum product storage, or similar was observed. Manatee awareness and educational signage was posted by access points to the docks from land as well as on information board displays around the show.

Manatee sightings/observations:

DERM staff – 1 manatee observed at 1 Herald Plaza.
Manatee observers/drone pilots - 3 manatees observed at Sea Isle Marina.

Weather Conditions:

Partly cloudy and windy.



View facing east of Pier 1 entry gate with manatee caution sign posted at Sea Isle Marina.



View facing northeast of required no entry buoys along north side of Pier 1 at Sea Isle Marina.



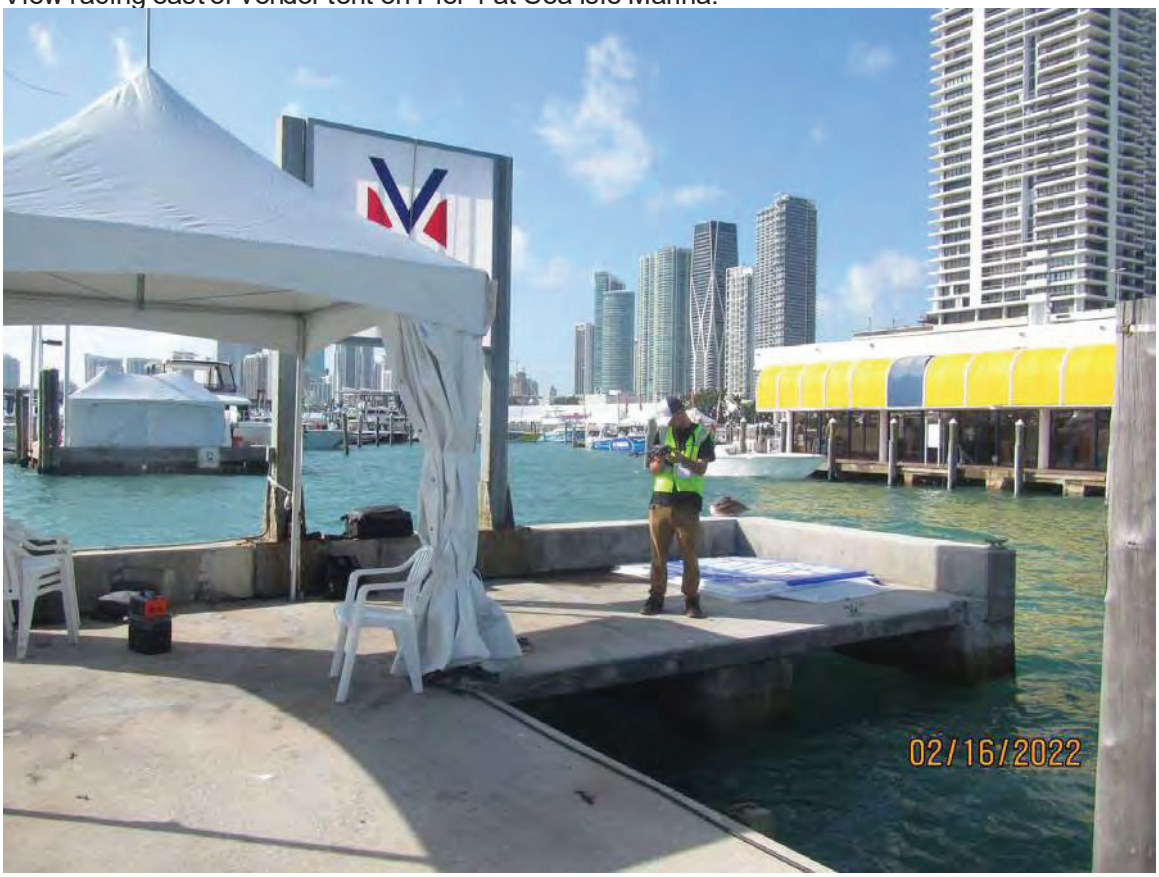
View facing north of required no entry buoys along north side of Pier 1 at Sea Isle Marina.



View facing northeast of required no entry buoys between Piers 1 and 2 at Sea Isle Marina.



View facing east of vendor tent on Pier 1 at Sea Isle Marina.



View facing south of drone pilot at the end of Pier 1 at Sea Isle Marina.



View of sea trial vessels with placards not displayed at Sea Isle Marina.





View of sea trial vessel with pennant at Sea Isle Marina.



View of sea trial vessels with placards not displayed at Sea Isle Marina.



View facing east of manatee educational sign posted on Pier 3 gate at Sea Isle Marina.



View of water taxi vessel at Sea Isle Marina.



View of sea trial vessel with displayed placard at Sea Isle Marina.



View of sea trial vessel with displayed placard.



View facing west from Pier 5 of sea trial vessels at Sea Isle Marina.



View facing north from Pier 5 of sea trial vessels.



View of sea trial vessel entering Sea Isle Marina with placard not displayed.



View of manatee caution sign posted on Pier 2 gate at Sea Isle Marina.



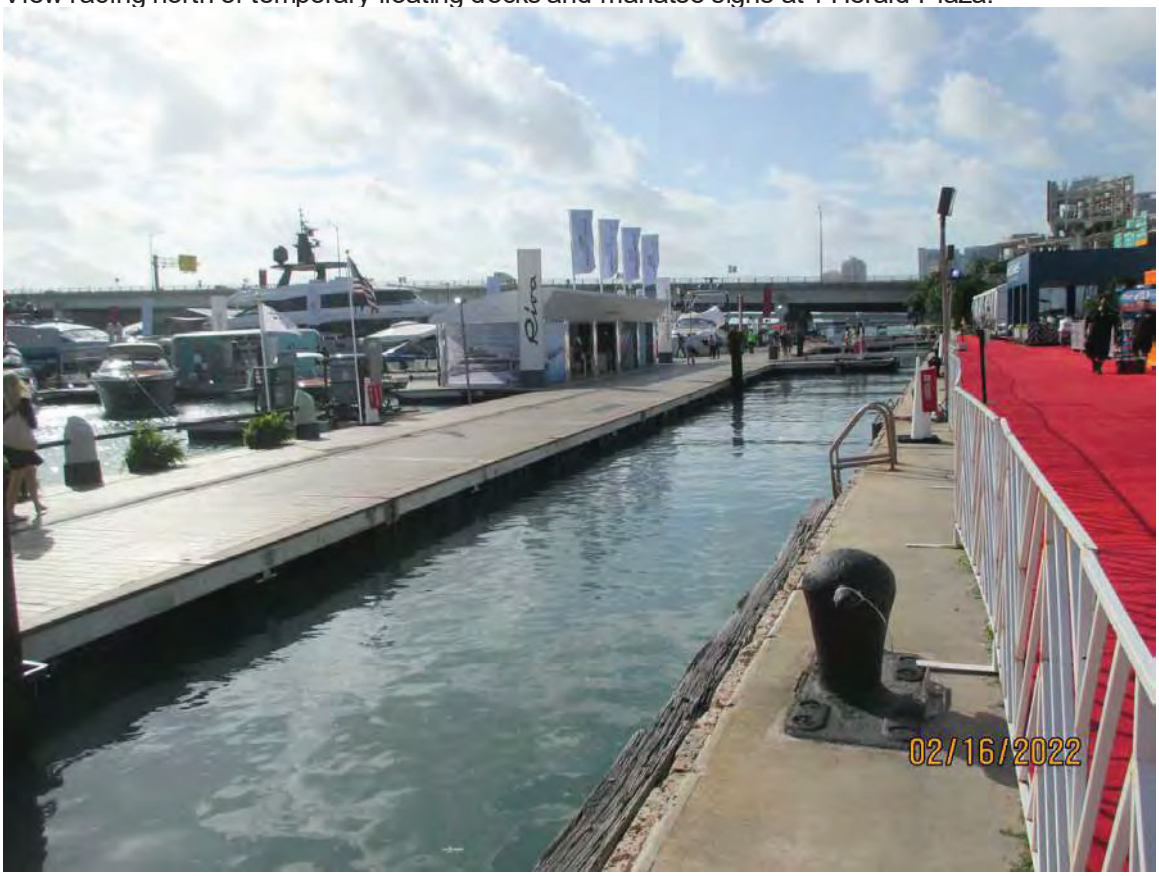
View of sea trial vessel leaving Sea Isle Marina with placard displayed.



View of manatee educational sign along main walkway of Sea Isle Marina.



View facing north of temporary floating docks and manatee signs at 1 Herald Plaza.



View facing south of temporary floating docks at 1 Herald Plaza.



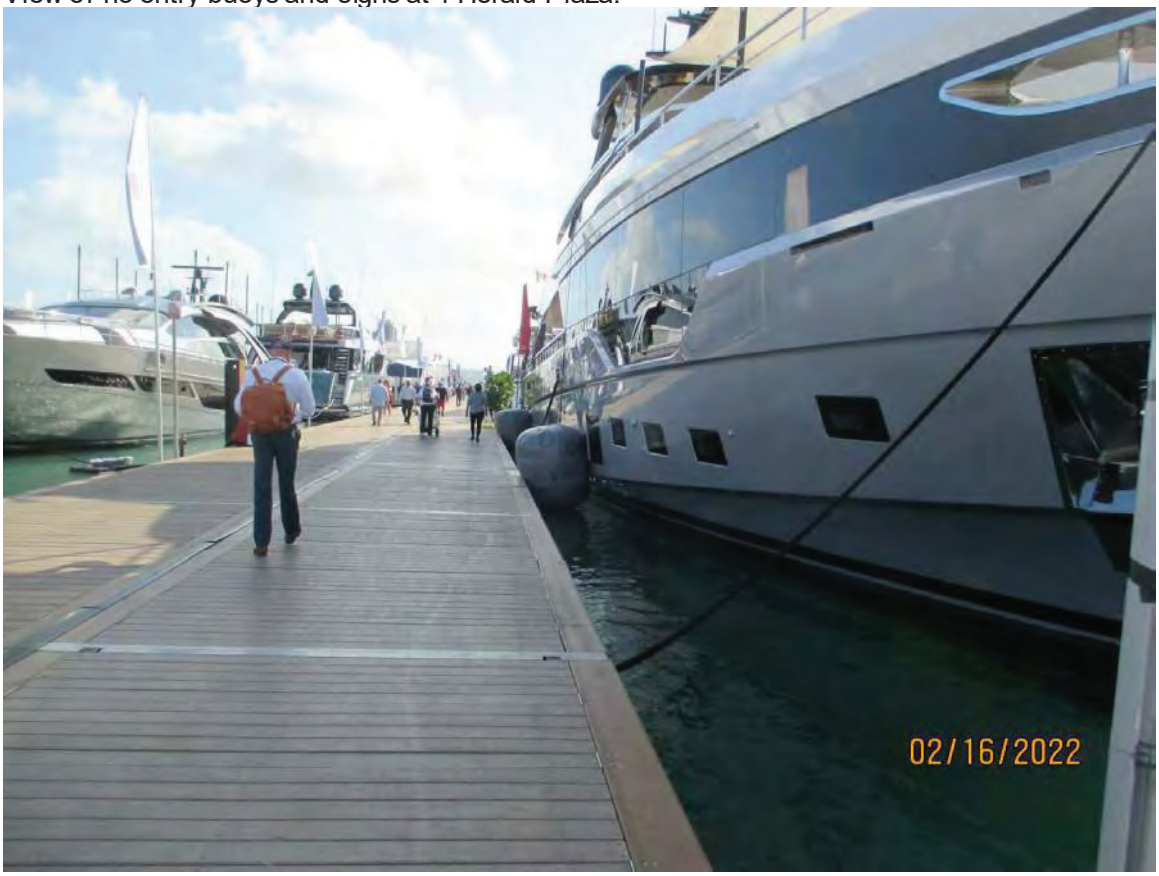
View facing east of marked no entry area at NW end of 1 Herald Plaza.



View of garbage can without lid over water at 1 Herald Plaza.



View of no entry buoys and signs at 1 Herald Plaza.



View facing east of vessel measuring 100 feet or greater with a 4-foot standoff at 1 Herald Plaza.



View facing east of vessel measuring 100 feet or greater with a 4-foot standoff at 1 Herald Plaza.



View facing west of a large vessel with sufficient standoff from temporary floating dock.



View facing north of water taxi vessel at southeast end of the 1 Herald Plaza docks.



View facing south of wave break at south end of 1 Herald Plaza.



View facing west along south end of temporary floating docks and vendor tents at 1 Herald Plaza.



View of Mansion Yacht along temporary floating dock at southeast end of 1 Herald Plaza.



Views of crew member (yellow vest) acting as manatee observer on water taxi.





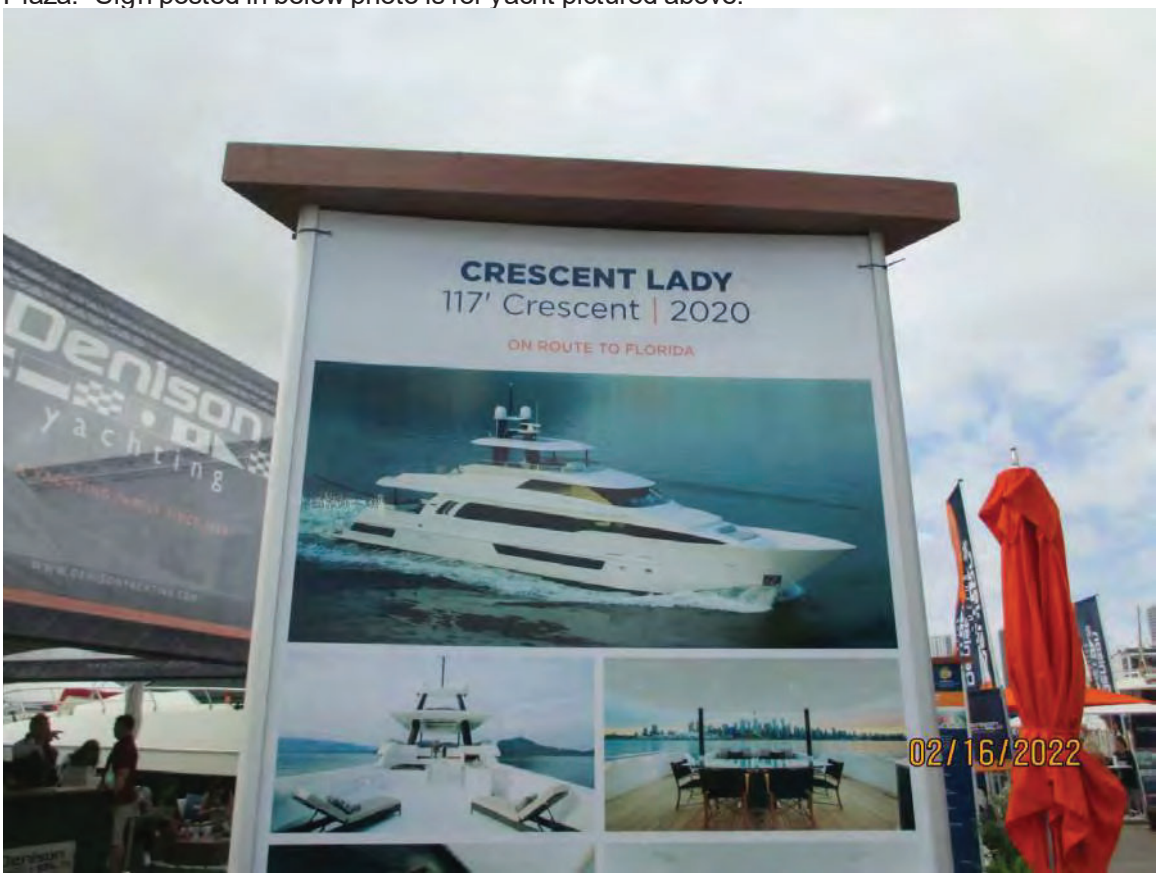
View of smaller water taxi with no manatee observer.



View of water taxis and manatee observer (yellow vest) on temporary floating dock at 1 Herald Plaza.




View of 100-foot or greater vessel with sufficient standoff from temporary floating dock at 1 Herald Plaza. Sign posted in below photo is for yacht pictured above.





View facing east of City of Miami Marine Patrol unit.



View of manatee observer (blue shirt) on water taxi.



View facing south of no entry buoys and pilings at 1 Herald Plaza.





View facing south of no entry buoys and pilings at 1 Herald Plaza.



View facing east of no entry buoys along Venetian Causeway.  North end of 1 Hearld Plaza set up.



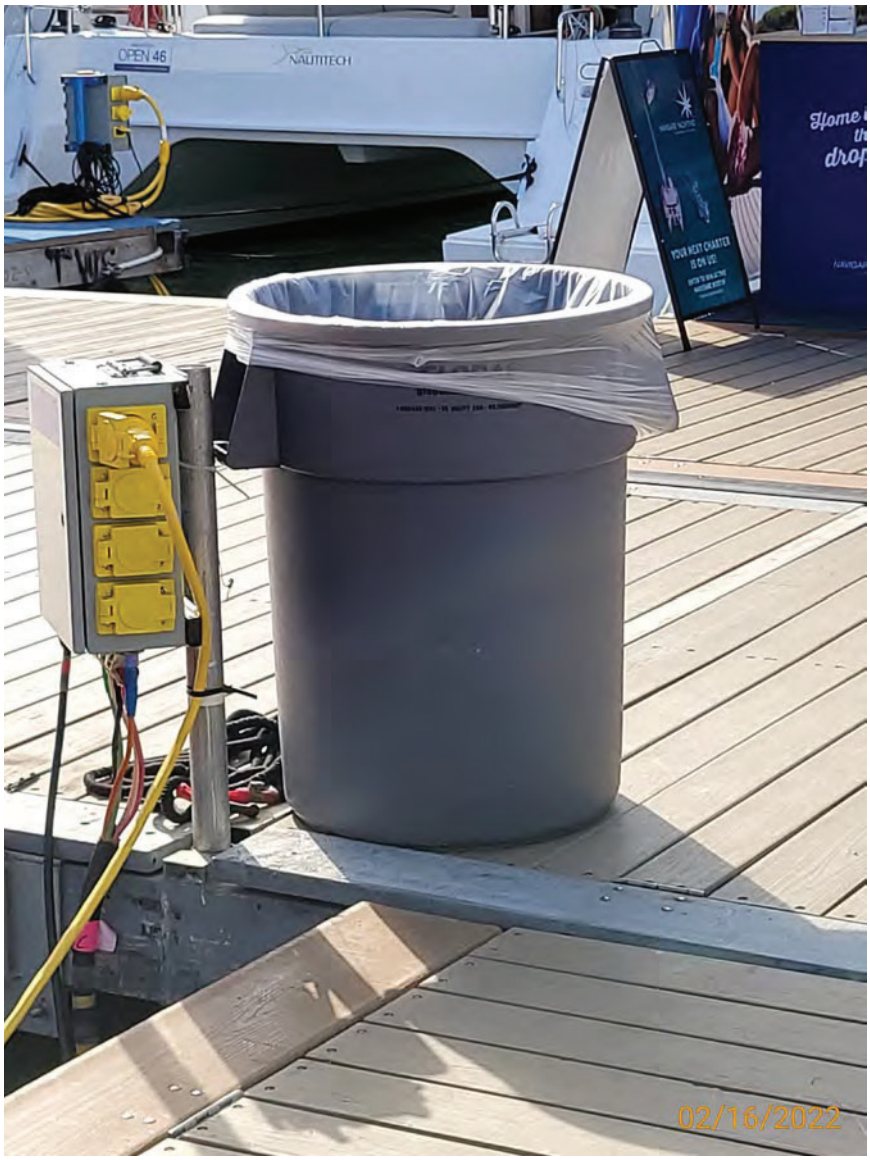
View facing northwest of temporary floating docks and vendor tents at the FEC slip.



View facing northwest of temporary floating docks, vendor tents, and water taxi at the FEC slip.



View facing north of wave break (right) at the east of end of the FEC slip.



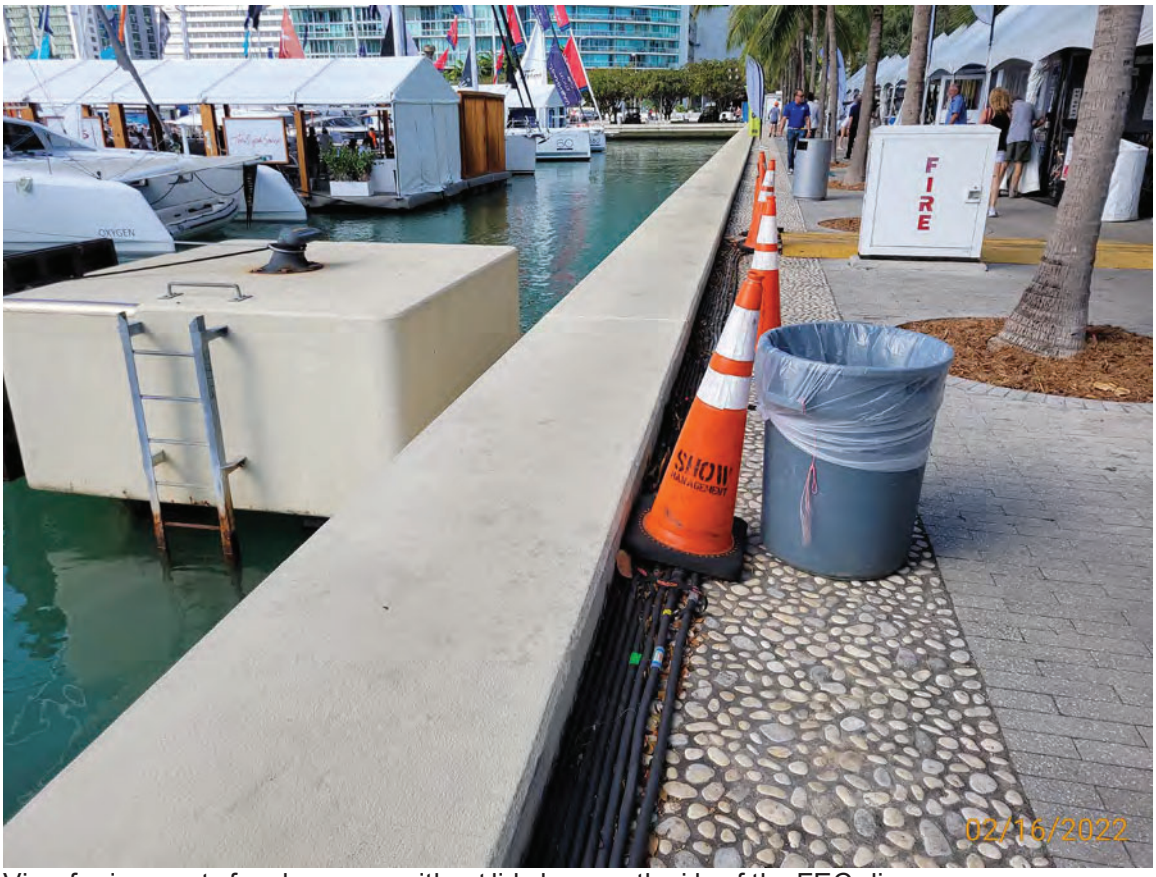
View of over-water garbage can without lid at the FEC slip.



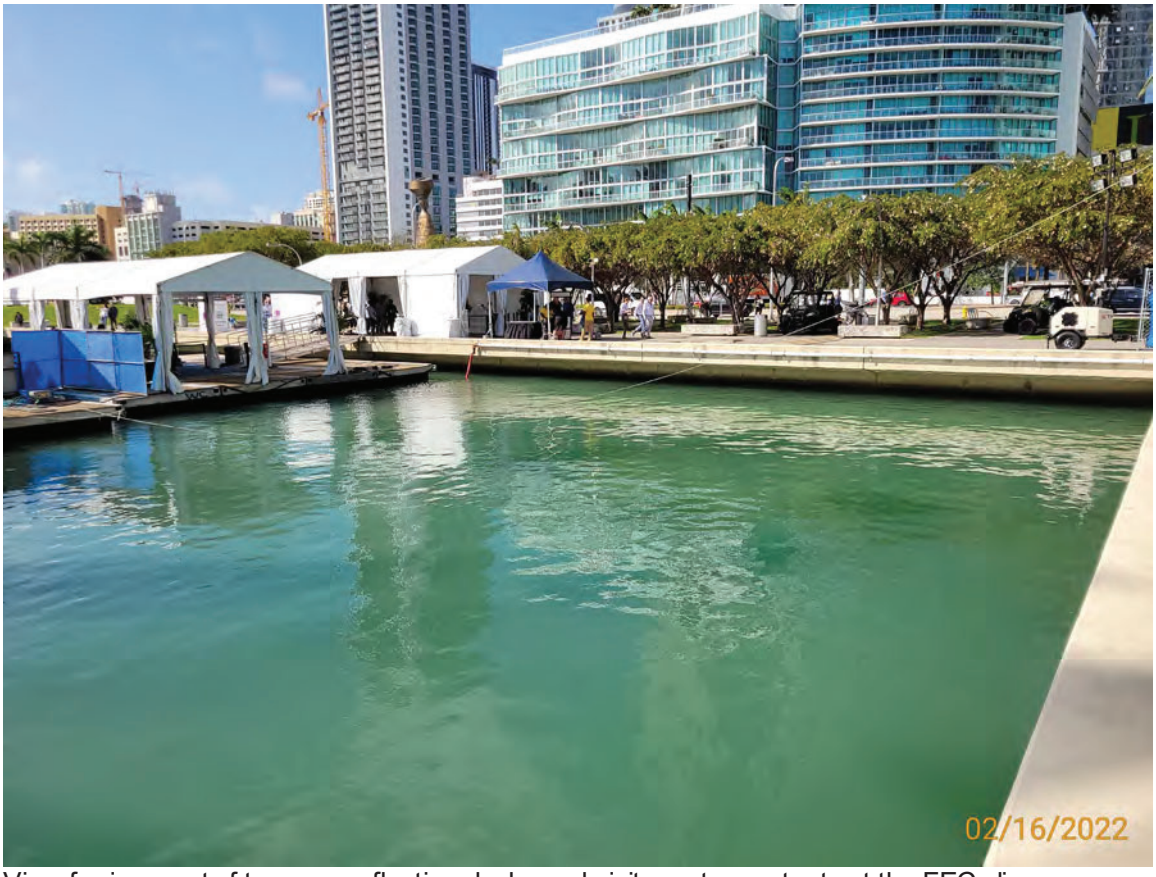
View facing west of boat show vessels at the FEC slip.



View facing south of boat show vessels and vendor tents at the FEC slip.



View facing west of garbage can without lid along north side of the FEC slip.



View facing west of temporary floating docks and visitor entrance tents at the FEC slip.



View facing east of boat show vessels at the FEC slip.



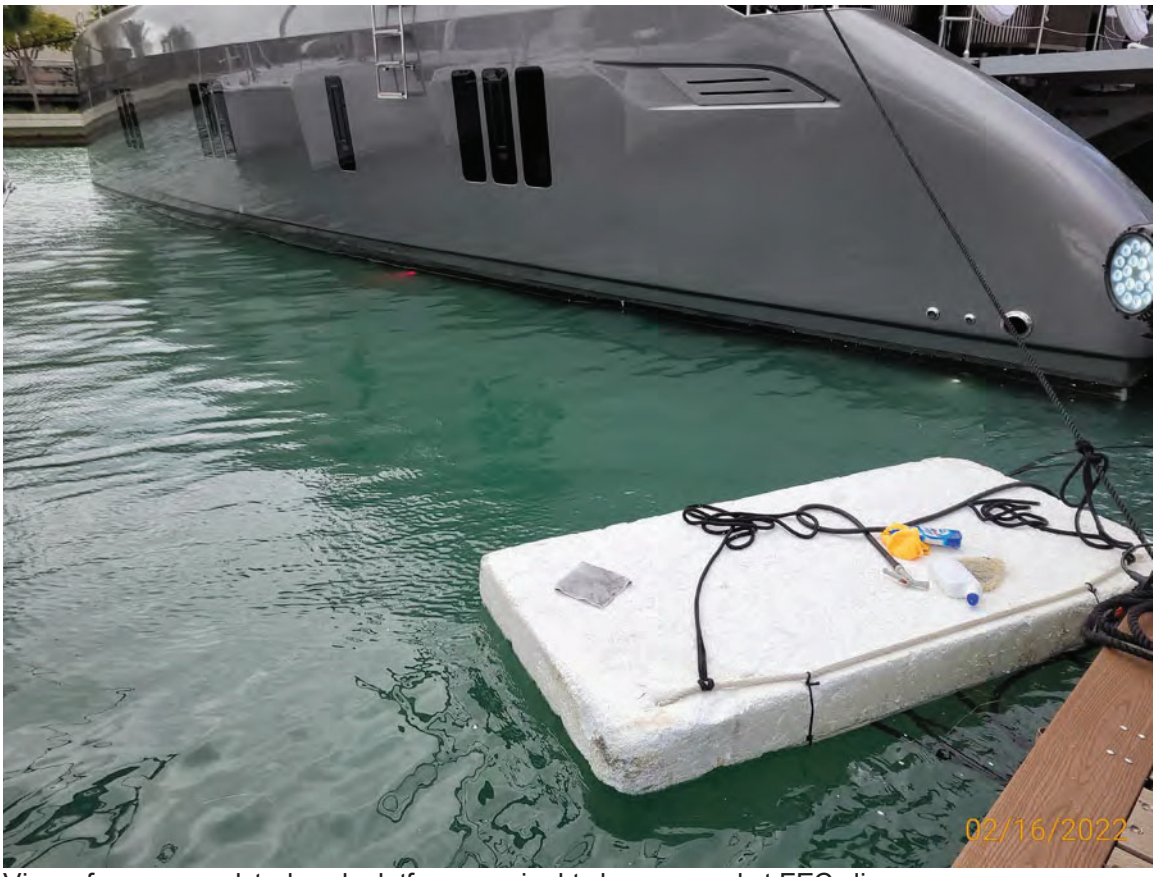
View facing west of main temporary floating dock at the FEC slip.



View of water taxi with manatee observer at southeast end of FEC slip pier.



View of water taxi without manatee observer.



View of unencapsulated work platform required to be removed at FEC slip.



View facing south of boat show vessels at the FEC slip.



View facing west of authorized wave break.





View facing west of the southern limit of the event located at Sea Isle Marina north of Venetian Causeway.



View facing west of the northern limit of the event located at 1 Herald Plaza south of the Venetian Causeway.



View facing west of water taxis at 1 Herald Plaza.





View facing north of water taxis heading north.





View of passengers loading onto water taxi.



View facing north of passenger vessel from Island Gardens observed attempting to enter Sea Isle Marina and 1 Herald Plaza but denied by DERM boat staff.



View facing north of passenger vessel from Island Gardens observed attempting to enter Sea Isle Marina and 1 Herald Plaza but denied by DERM boat staff.



View facing west of water taxi at FEC.

# COASTAL INSPECTION REPORT

| | |
|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 and CLI-2021-0344 |
| **PROJECT NAME:** | Yachting Promotions, Inc. |
| **LOCATION:** | 1 Herald Plaza<br>Sea Isle Marina – 1635 North Bayshore Drive<br>FEC Slip – 801 Biscayne Blvd. |
| **WATERWAY:** | Biscayne Bay |
| **PERMIT PROJ. MGR.:** | Tammy Burton |
| **DATE:** | February 17, 2022 **TIME:** 9:30 a.m. – 5:30 p.m. |
| **INSPECTOR(S):** | Luis Fernandez, Felix Alvarez, Damien Hamrick, Ken Cathey, Tammy Burton, and Jessica Lorenzo |

On January 14, 2022, a modification to Class I permit CLI-2018-0071 was issued to Yachting Promotions, Inc for the annual Miami International Boat Show taking place between February 16, 2022 and February 20, 2022. The authorized work included:

- Temporary installation of floating docks, tents, access ramps, and associated piles for the creation of 650 temporary slips for the annual boat show.
- Installation of 3 “No Entry” piles as indicated on the final approved plans.
- Installation of 10 “No Entry” marker buoys secured by helix anchors as indicated on the final approved plans.
- Installation of 2 “No Mooring” signs along the floating docks as indicated on the final approved plans.
- Installation of wave breaks consisting of steel barges along the southern and northeastern boundaries of the submerged lands lease as indicated on the DERM final approved plans.
- Authorization for the operation of water taxi services between the project location sites, the FEC Slip, and the Island Gardens Marina.
- Authorization for a maximum of 150 sea trial slips within the existing Sea Isle Marina.

On February 17, 2022, DERM staff consisting of six (6) inspectors from the Coastal Resources Section performed inspections via land and water throughout all three authorized boat show locations between the hours of 9:00 a.m. and 5:45 p.m. Staff observations and actions taken throughout the day are below:

Sea Isle Marina/1 Herald Plaza/FEC Slip (inspected via land):

- Several manatees observed within Sea Isle Marina and FEC Slip throughout the day by DERM staff, boat show drone pilots, and boat show manatee observers.
- Sea trials temporarily suspended at various times via VHF Channel #68 in response to manatee sightings within Sea Isle Marina.
- Communication with sea trial vessel captains was problematic as it related to temporary sea trial vessel suspensions as a result of manatee sightings.
- Most sea trial vessels docked along Pier 5 of Sea Isle Marina continued to be non-compliant with displaying the required placards as noted the previous day.
- Some garbage cans remained without lids at 1 Herald Plaza, however, all garbage cans appeared to be constantly serviced and none were observed overflowing. Lids were provided on the remaining garbage cans later in the day.
- Small amounts of floating trash observed along landward end of the show at 1 Herald Plaza.
- Custodial staff observed on site with nets.
- Manatee observers wearing designated blue manatee observer shirts found on all water taxi vessels and walking the piers.

Sea Trial Route (inspected via water):

- Two sea trial vessels (Pursuit "AVIMAR" and Yellowfin 36) attempted to head north and were quickly turned around. DERM staff verbally warned both of the vessel captains to maintain within the designated mandatory sea trial route.
- Sea Hunter vessel was observed traveling east to west and north of the Venetian Islands. DERM staff verbally warned the vessel's captain to maintain within the designated mandatory sea trial vessel route.
- MTM Suzuki vessel was observed traveling east to west and north of the Venetian Islands. DERM staff verbally warned the vessel's captain to maintain within the designated mandatory sea trial vessel route.
- City of Miami Marine Patrol removed MTM Suzuki's sea trial pass for traveling north on the ICW and outside of the designated mandatory sea trial vessel route.
- City of Miami Marine Patrol removed Freeman's sea trial pass for traveling north on the ICW and outside of the designated mandatory sea trial vessel route.
- Several sea trial vessels observed still not displaying the required placards.
- No manatees observed within the sea trial route.

As with the day before, DERM staff continued to communicate non-compliance issues with boat show personnel from Informa throughout the day.

Below is a summary of DERM observations and actions taken by DERM staff and boat show personnel:

Upon arrival at Sea Isle Marina at approximately 10:00 a.m., DERM staff immediately observed that many sea trial vessels docked at Pier 5 continued to be in non-compliance with having required placards displayed. Boat show personnel were reminded requirement and immediately responded by sending staff to the non-compliant vessels. By the end of the day, placards were displayed on most sea trial vessels with a few exceptions.

Several manatees were observed within Sea Isle Marina along the seawall between Piers 1-5. One manatee was observed at the northwest end in the FEC slip basin for several hours. DERM staff, boat show drone pilots, and boat show manatee observers tracked the manatee locations as they moved throughout the boat show locations in order to avoid potential vessel impacts and/or harassment by the public. Manatees were observed feeding, resting, and swimming. Some of the manatees were observed in the same area for several hours.

DERM staff, boat show drone pilots, and boat show manatee observers also coordinated the temporary suspension of sea trial vessels at Sea Isle Marina on a pier by pier basis and as needed. Depending on where a manatee was sighted/located, alerts were sent out via VHF Channel #68 to all sea trial captains that sea trials were temporarily suspend for a specific pier(s). Additionally, DERM staff and manatee observers walked the piers individually notifying sea trial captains of a temporary sea trial suspension. While most of the sea trial vessel captains complied with the temporary sea trial suspension, many captains appeared to be unaware of the alerts and were observed exiting/entering the marina from/to a pier that had been temporarily suspended. When non-compliant sea trial captains were questioned for violating the temporary suspension the response was that they were unaware of the suspension because their radios were turned off or not on VHF Channel #68.

Several sea trial vessels were observed traveling outside of the designated mandatory sea trial vessel route primarily attempting to head north along ICW and east/west along the north side of the Venetian Islands. DERM boat staff issued several verbal warnings to sea trial vessel captains and law enforcement agencies removed two (2) sea trial vessel passes for not complying with the designated mandatory sea trial vessel route. DERM staff coordinated with law enforcement with these efforts but did not remove any sea trial vessel passes.

Overall, the show set up was found clean, organized, and with good housekeeping. No evidence of vessel repairs, fueling activities, chemical/petroleum product storage, or similar was observed. Manatee awareness and educational signage was posted by access points to the docks from land as well as on information board displays around the show.

Manatee sightings/observations:

DERM staff – 7 manatees observed - 6 at Sea Isle Marina and 1 at FEC Slip
Manatee observer/drone pilots - 9 manatees observed at Sea Isle Marina piers and water taxi slip.

Weather Conditions:

Partly cloudy and windy.



View facing east between Piers 4 and 5 at Sea Isle Marina.



View facing north of sea trial vessel exiting Sea Isle Marina with placard displayed and manatee observer on board.



View facing east of sea trial vessels entering Sea Isle Marina.



View facing north of sea trial vessels entering Sea Isle Marina with manatee observer on board.



View facing south of manatee observed on watch along Pier 1 of Sea Isle Marina.



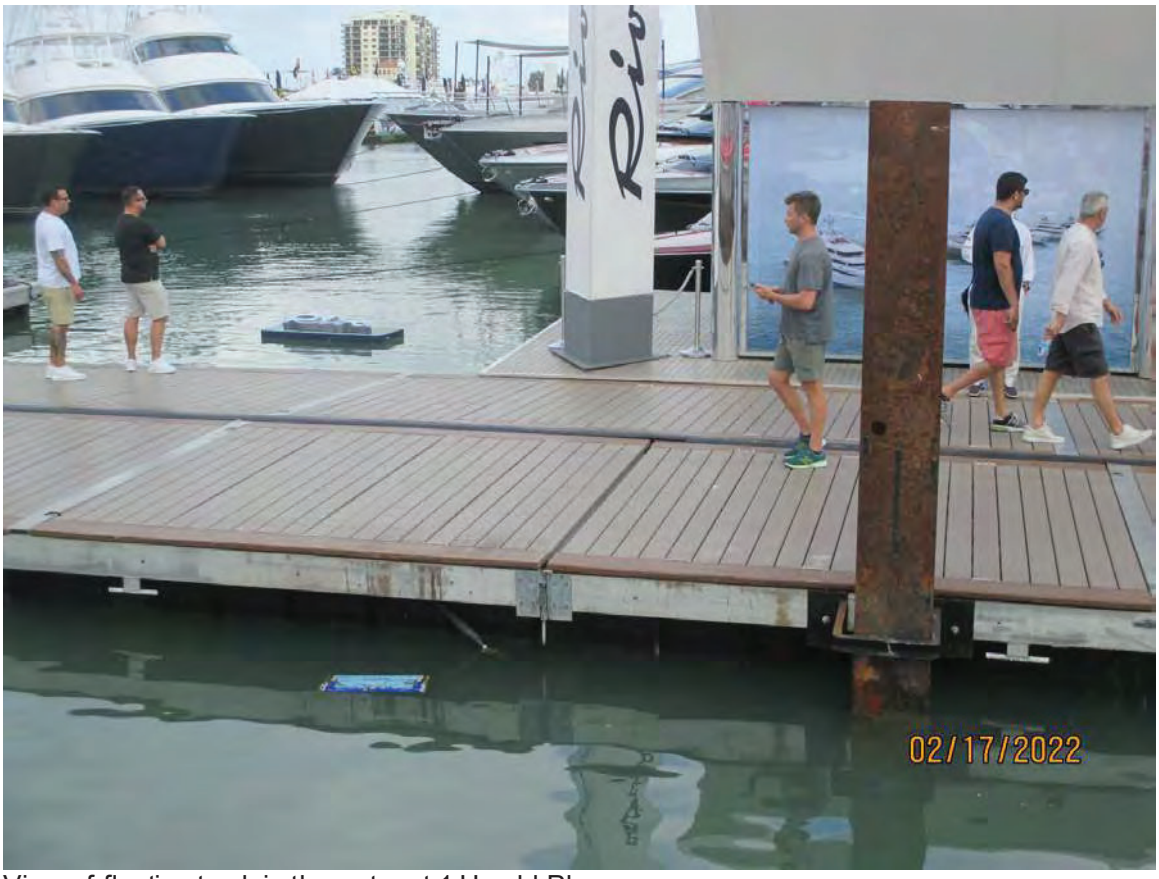
View facing east of two manatees resting and feeding between Piers 1 and 2 within the no entry area at Sea Isle Marina



View of manatee observer tent.



View of floating trash in the water at 1 Herald Plaza.



View of floating trash in the water at 1 Herald Plaza.



View of covered trash can at 1 Herald Plaza.



View facing south of rope installed by boat show personnel to prevent drop off and pick up of passengers at Sea Isle Marina.



View facing east of water taxi with manatee observer on board.



View facing east of vessel measuring 100 feet or greater with a 4-foot standoff at 1 Herald Plaza.



View facing east of a large vessel with sufficient standoff from temporary floating dock.



View facing west of a large vessel with sufficient standoff from temporary floating dock.



View facing west of covered trash can.



View facing north of temporary floating docks at 1 Herald Plaza and covered trash can.



View of temporary floating docks and water taxi slip at 1 Herald Plaza.



View facing north of water taxis just south of the Venetian Causeway.



View facing south of wave break along the south end of boat show limits at 1 Herald Plaza.



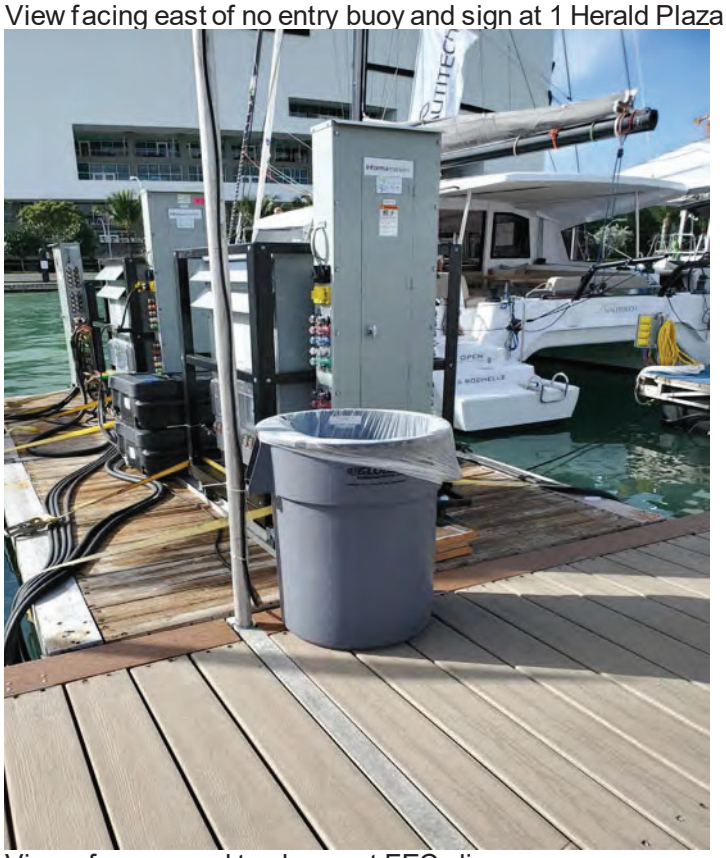
View facing north of temporary floating docks and Mansion Yacht at SE end of 1 Herald Plaza.



View facing west of no entry buoy and sign at 1 Herald Plaza.



View facing east of no entry buoy and sign at 1 Herald Plaza.


View of uncovered trash can at FEC slip.

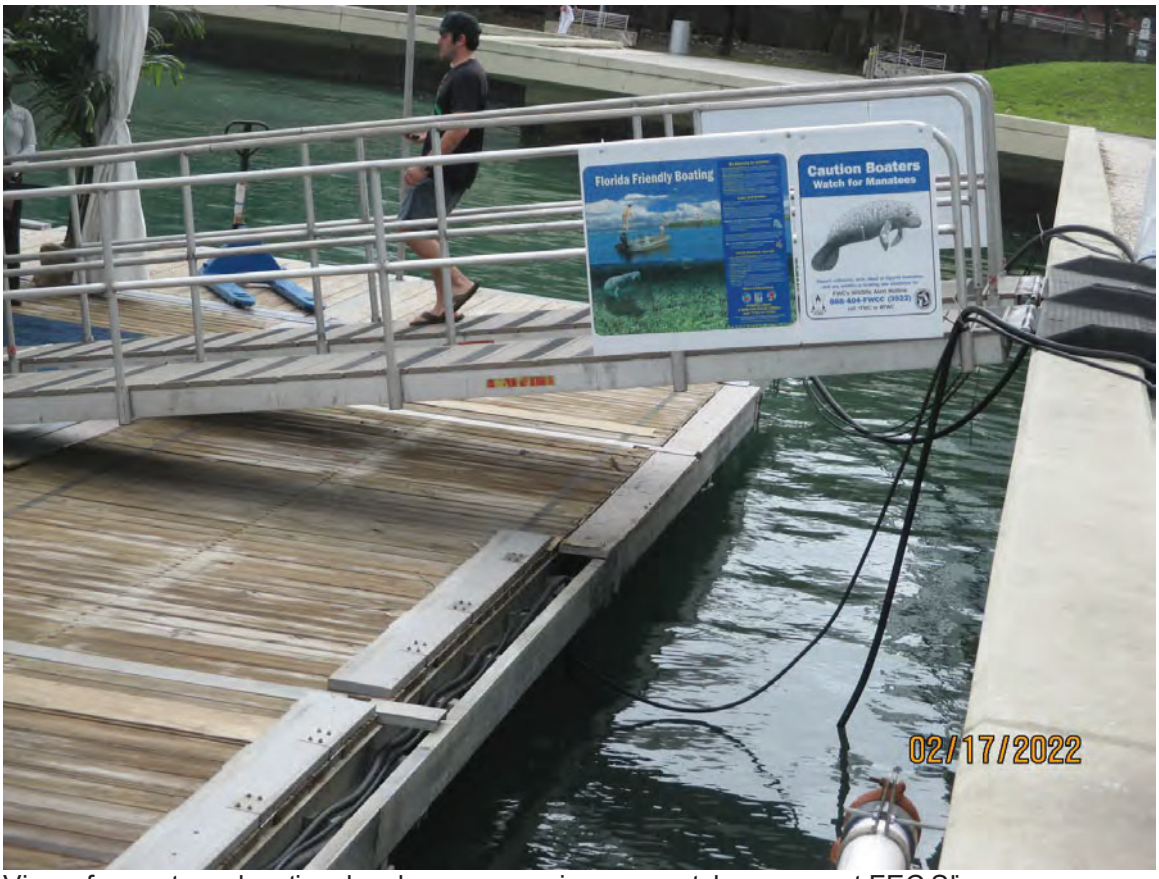


View of manatee at FEC Slip.




View of same manatee at FEC Slip.





View of manatee educational and awareness signs on metal gangway at FEC Slip.



View of same manatee at FEC Slip.




View of same manatee at FEC Slip.





View facing east of temporary floating docks at FEC Slip.



View of uncovered trash can at FEC Slip.



View of manatee observer drone pilot station at FEC Slip.



View facing east of water taxi exiting show at FEC Slip.



View facing west of boat show at FEC Slip.





View of covered trash can at FEC Slip.



View of same manatee at FEC Slip, now swimming east along north side of notch.



View of vessel Yellowfin 36 traveling north along ICW outside of the designated mandatory sea trial vessel route.



View of vessel AVIMAR traveling north along the ICW outside of the mandatory designated sea trial vessel route.



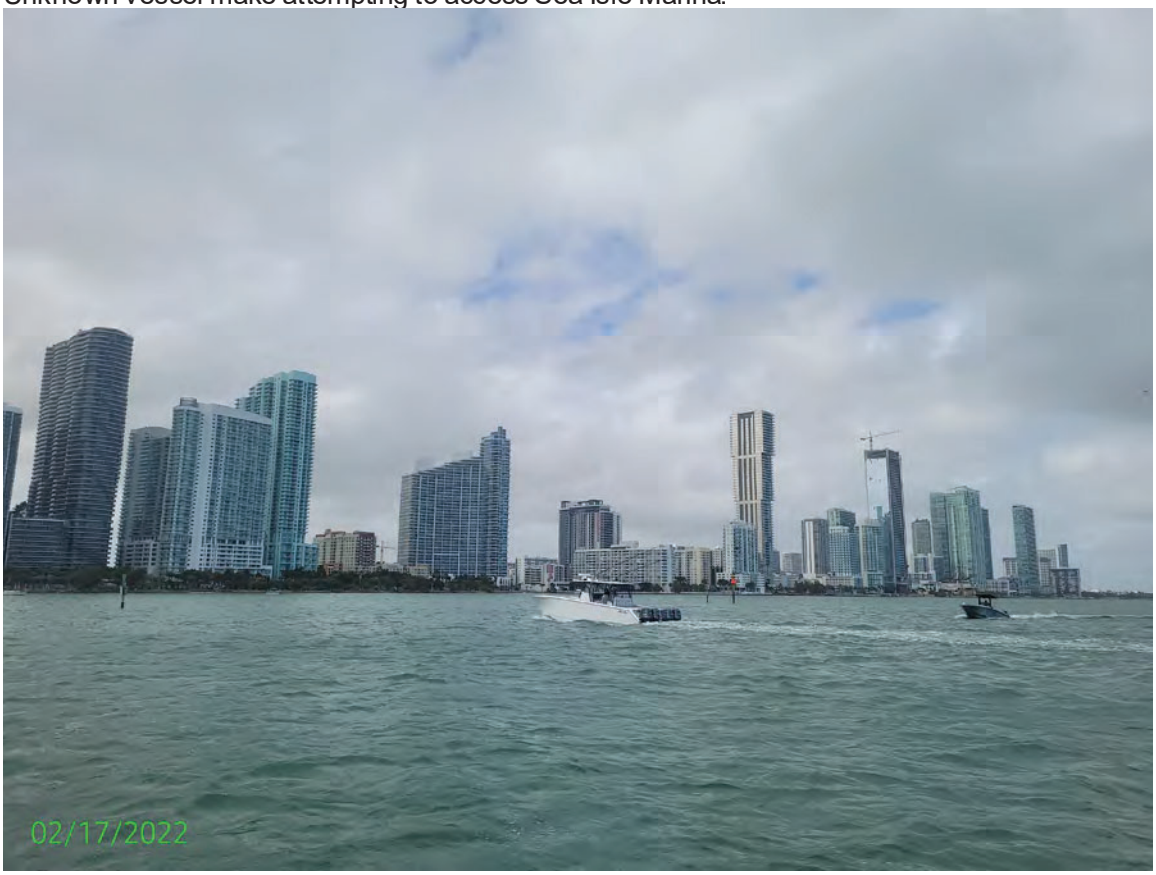
View of vessel AVIMAR traveling north along the ICW outside of the mandatory designated sea trial vessel route.



Unknown vessel make attempting to access Sea Isle Marina.



Unknown vessel make attempting to access Sea Isle Marina.



Sea Hunter returning to Sea Isle Marina traveling outside Sea Trial route east to west north of the Venetian Causeway.



Sea Hunter not properly displaying required placard for sea trials.



Sea Hunter not properly displaying required placard.



City of MPD intercepting Freeman vessel heading north on the ICW and removing Sea Trial Pennant.



Robalo sea trial vessel attempted to head north on ICW and was ordered to turn around and stay on the approved sea trial route.



Freeman vessel returning to Sea Isle Marina after having sea trial pennant removed.



Freeman vessel returning to Sea Isle Marina after having sea trial pennant removed.



Freeman vessel returning to Sea Isle Marina after having sea trial pennant removed.



OXE vessel travelling north to south on ICW and returning to Sea Isle Marina.



OXE vessel travelling north to south on ICW and returning to Sea Isle Marina.



“Morgan’s Dream” Wader 55s made several attempts to enter Sea Isle Marina along the south side of the marina.



City of MPD ordering “Morgan’s Dream” Wader 55s to leave Sea Isle Marina.



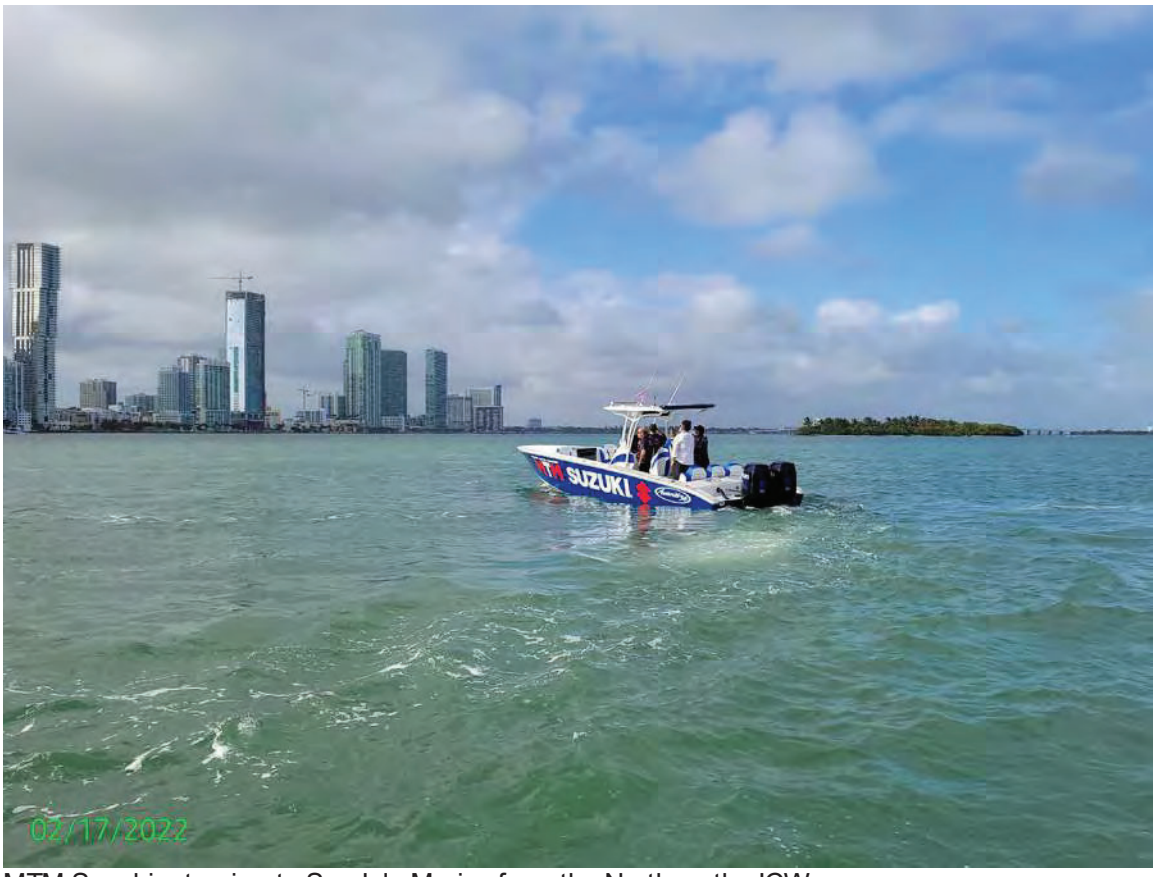
“Morgan’s Dream” Wader 55s anchored east of Sea Isle Marina northeast of ICW Venetian draw bridge.



Vessel properly displaying Sea Trial Pennant and Green Placard.



MTM Suzuki departed Sea Isle Marina and headed west to east north of the Venetian Causeway.



MTM Suzuki returning to Sea Isle Marina from the North on the ICW.



MTM Suzuki returning to Sea Isle Marina from the North on the ICW.



MTM Suzuki returning to Sea Isle Marina from the North on the ICW meeting with City of Miami Marine Patrol.



MTM Suzuki meeting with City of Miami Marine Patrol.



City of Miami Marine Patrol removing Sea Trial Pennant from MTM Suzuki.



City of Miami Marine Patrol removing Sea Trial Pennant from MTM Suzuki.

# COASTAL INSPECTION REPORT

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|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 and CLI-2021-0344 |
| **PROJECT NAME:** | Yachting Promotions, Inc. |
| **LOCATION:** | 1 Herald Plaza<br>Sea Isle Marina – 1635 North Bayshore Drive<br>FEC Slip – 801 Biscayne Blvd. |
| **WATERWAY:** | Biscayne Bay |
| **PERMIT PROJ. MGR.:** | Tammy Burton |
| **DATE:** | February 18, 2022 **TIME:** 9:30 a.m. – 6:00 p.m. |
| **INSPECTOR(S):** | Luis Fernandez, Felix Alvarez, Ken Cathey, Michelle Metcalf, and John Ricisak |

On January 14, 2022, a modification to Class I permit CLI-2018-0071 was issued to Yachting Promotions, Inc for the annual Miami International Boat Show taking place between February 16, 2022 and February 20, 2022. The authorized work included:

- Temporary installation of floating docks, tents, access ramps, and associated piles for the creation of 650 temporary slips for the annual boat show.
- Installation of 3 “No Entry” piles as indicated on the final approved plans.
- Installation of 10 “No Entry” marker buoys secured by helix anchors as indicated on the final approved plans.
- Installation of 2 “No Mooring” signs along the floating docks as indicated on the final approved plans.
- Installation of wave breaks consisting of steel barges along the southern and northeastern boundaries of the submerged lands lease as indicated on the DERM final approved plans.
- Authorization for the operation of water taxi services between the project location sites, the FEC Slip, and the Island Gardens Marina.
- Authorization for a maximum of 150 sea trial slips within the existing Sea Isle Marina.

On February 18, 2022, DERM staff consisting of four (4) inspectors from the Coastal Resources Section and one (1) inspector from the Restoration and Enhancement Section performed inspections via land and water throughout all three authorized boat show locations between the hours of 9:30 a.m. and 6:00 p.m. Staff observations and actions taken throughout the day are below:

Sea Isle Marina/1 Herald Plaza/FEC Slip (inspected via land):

- Several manatees observed within Sea Isle Marina throughout the day by DERM staff, boat show drone pilots, and boat show manatee observers.
- Sea trials temporarily suspended at various times via VHF Channel #68 in response to manatee sightings within Sea Isle Marina.
- Communication with sea trial vessel captains via VHF Channel #68 continued to be an issue when sea trials were temporarily suspended as a result of manatee sightings.
- Informa staff members in work boat assisted with sea trial vessel traffic in and out of marina when temporary sea trials were suspended.
- Boat show drone operators continued to monitor for manatees at all three boat show locations.
- Observations along floating dock portions of show found areas clean and organized.
- 100-foot yacht near NE end of show at 1 Herald Plaza found with sufficient standoff from the floating dock as required.
- Garbage cans throughout show locations had lids, except for a few remaining located at 1 Herald Plaza and FEC slip.
- All trash cans observed were serviced and not overflowing except for one located at the FEC slip which was immediately addressed by custodial staff when the issue was brought to their attention.
- Custodial staff provided by the boat show responded to DERM staff in a timely manner by retrieving trash observed in the water.
- Manatee observers observed on board of water taxi vessels while in operation.
- Two vessels adjacent to the designated water taxi area were observed attempting to ferry passengers to 1 Herald Plaza – City of Miami Marine Patrol addressed the issue and turned the vessels away.
- No manatees observed at 1 Herald Plaza location or FEC slip.

Sea Trial Route (inspected via water):

- "X3" sea trial vessel was observed headed north on ICW. Per the captain, vessel was en route to drop off technicians at Pelican Harbor Marina boat ramps. Since vessel was not conducting sea trials, however, they were allowed to proceed as long as the sea trial pennant was removed while outside of the sea trial route.
- Cape Coral Fire Dept. vessel was observed traveling east to west north of the Venetian Islands. DERM staff verbally warned the captain that they were outside of the mandatory designated sea trial route.
- Freeman vessel was observed performing sea trials with new sea trial pennant after sea trial pennant was removed previous day.
- Invincible "Powell Boat" sea trial pennant removed by City of Miami Marine Patrol.
- Boston Whaler observed outside of channel south of Port Miami, around the Florida Explorer slip.
- Commissioner Danielle Cohen Higgins from District 8 and Lisa Spadafina, RER-DERM Natural Resources Division Chief participated in a vessel ride-along with DERM staff around boat show locations and Board of County Commissioners (BCC) approved sea trial route.
- City of Miami Marine Patrol removed a total of three (3) sea trial vessel pennants for traveling outside of the designated mandatory sea trial route.
- No manatees observed within the sea trial route.

As with the day before, DERM staff continued to communicate non-compliance issues with boat show personnel from Informa throughout the day.

Below is a summary of DERM observations and actions taken by DERM staff and boat show personnel:

Upon arrival at Sea Isle Marina at approximately 10:00am, DERM staff immediately observed a manatee located at the terminal end of Pier 5. The manatee was observed resting and feeding along the outside of the pier. Sea trials were temporarily suspended for vessels docked at the end of Pier 5. Sea trial vessels outside of the 50 foot requirement along Pier 5 were allowed to resume sea trials on a case by case basis and vessel movement to and from Pier 5 was monitored by DERM staff.

The manatee noted above also was observed between 11:00am – 1:00pm moving throughout Sea Isle Marina and remaining in proximity to the seawall between Piers 1 and 2. The same manatee was later observed between 1:30pm – 4:30pm at the terminal ends of Piers 4 and 5. Sea trials were temporarily suspended periodically during the above times and for the piers mentioned. Manatee alerts were provided over VHF Channel #68 and sea trial vessel captains also were alerted by DERM staff and boat show manatee observers on the piers.

A second manatee was spotted by a drone operator at approximately 12:40pm near the north end of Sea Isle Marina between Piers 1 and 2. A sea trial vessel returning to Pier 1 was halted and guided slowly in by DERM staff due to manatee proximity. Please note that the manatee observers provided by Informa were on site and remained observing manatee movements throughout the day alongside DERM staff.

Communication with sea trial vessel captains via VHF Channel #68 continued to be an issue when sea trials were temporarily suspended as a result of manatee sightings. The above issue was discussed with boat show personnel who responded by personally walking the marina piers and instructing all sea trial vessel captains to leave their radios on VHF Channel #68 at all times, even while docked. A bullhorn also was proposed by boat show personnel to alert sea trial vessel captains for the remaining days of the show.

Sea trial vessels continued to be observed traveling outside of the designated mandatory sea trial vessel route primarily traveling north along ICW and east/west along the north side of the Venetian Islands. DERM boat staff continued to verbally warn sea trial vessel captains and law enforcement agencies removed three (3) sea trial vessel passes for not complying with the designated mandatory sea trial vessel route. DERM staff coordinated with law enforcement in these efforts but did not remove any sea trial vessel passes.

Commissioner Danielle Cohen Higgins from District 8 and Lisa Spadafina, RER-DERM Natural Resources Division Chief participated in a vessel ride-along with DERM staff and were provided with a tour of the boat show locations and BCC approved sea trial route.

Overall, the show set up was found clean, organized, and with good housekeeping. No evidence of vessel repairs, fueling activities, chemical/petroleum product storage, or similar was observed. Manatee awareness and educational signage was posted by access points to the docks from land as well as on information board displays around the show.

Manatee sightings/observations:

DERM staff – 3 manatees observed at Sea Isle Marina.
Manatee observer/drone pilots - 3 manatees observed at Sea Isle Marina and 1 at FEC slip.

Weather Conditions:

Sunny



View facing north of sea trial vessel entering Sea Isle Marina with manatee observer on board.



View of manatee along Pier 5 in Sea Isle Marina.



View of manatee observers on watch with manatee along Pier 5.



View of manatee along Pier 5 in Sea Isle Marina.



View of manatee along Pier 5 in Sea Isle Marina.



View of manatee between Piers 1 and 2 in Sea Isle Marina.



View facing west of Pier 3 in Sea Isle Marina.



View of sea trial vessel about to depart from Sea Isle Marina with show patrons.



View of sea trial vessel about to depart from Sea Isle Marina with show patrons.



View of covered trash can in Sea Isle Marina.



View of sea trial vessel about to depart.



View of sea trial vessel about to depart.



View of covered trash can along Pier 1 in Sea Isle Marina.



View facing north of no entry buoys installed on the north side of Pier 1 outside of Sea Isle Marina.



View facing south from Pier 1 of sea trial vessels in Sea Isle Marina.





View facing west of manatee observer on watch along Pier 5 in Sea Isle Marina.



View of manatee between Piers 1 and 2 along no entry area in Sea Isle Marina.




View of manatee inside no entry area between Piers 1 and 2 in Sea Isle Marina





View of two manatees inside no entry area between Piers 1 and 2 in Sea Isle Marina.



View of manatee near west end of Pier 1 in Sea Isle Marina.



View facing south of no entry area between Piers 1 and 2 in Sea Isle Marina.



View of manatee at the end of Pier 4 in Sea Isle Marina.



View of sea trial vessel entering Sea Isle Marina with manatee observer (blue shirt) on board.



View facing east of DERM boat and wave break.



View facing east of vessels docked along temporary floating docks adjacent to Sea Isle Marina.

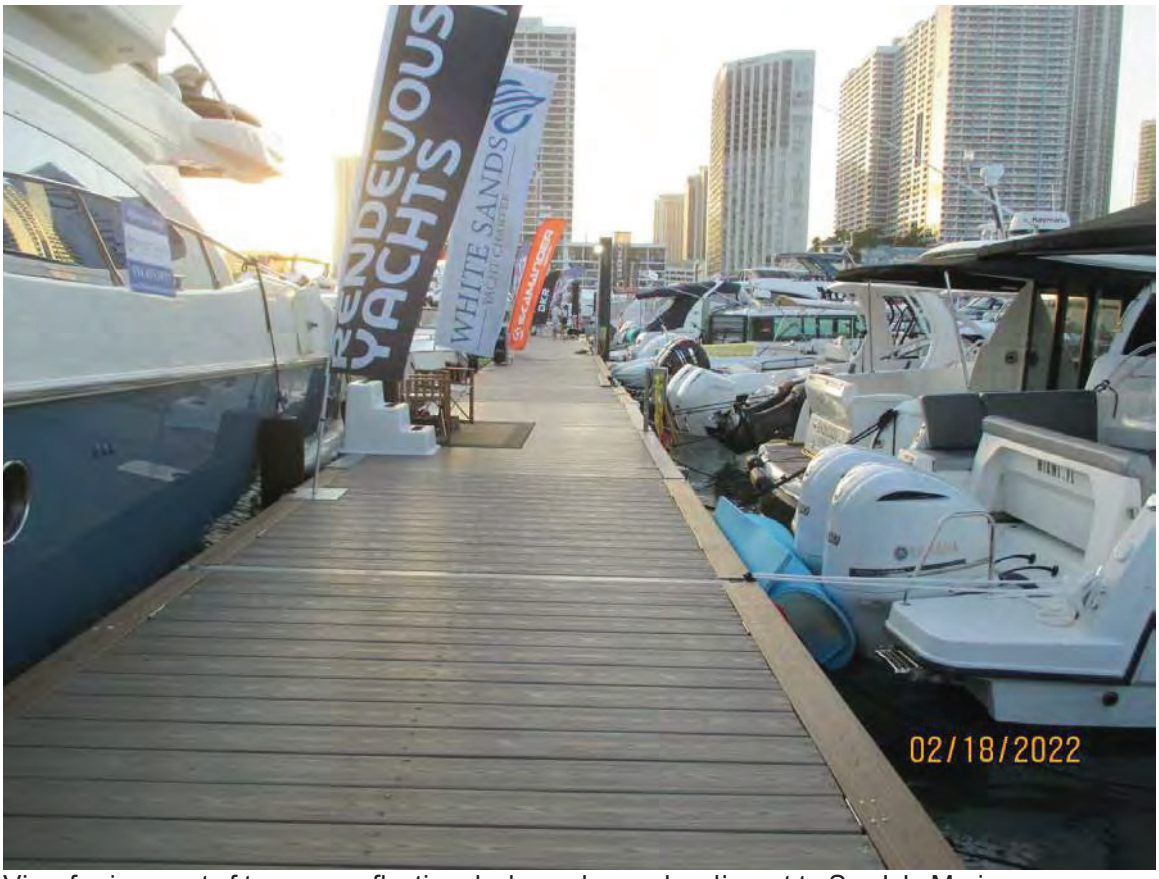


View facing east of sea trial vessels leaving Sea isle Marina.

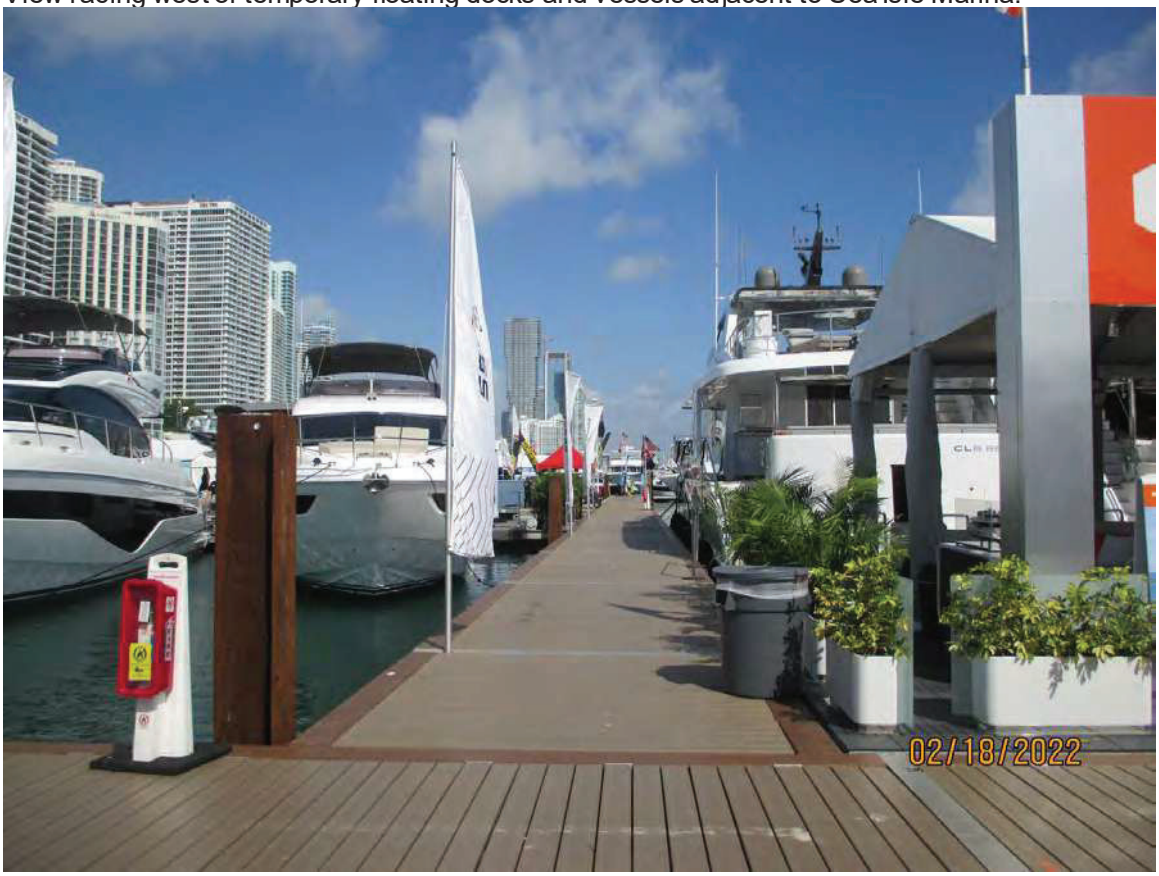



View facing west of a large vessel with sufficient standoff from temporary floating dock adjacent to Sea Isle Marina.





View facing west of temporary floating docks and vessels adjacent to Sea Isle Marina.



View facing north of temporary floating docks and vessels in 1 Herald Plaza.



View facing east of temporary floating docks in 1 Herald Plaza.



View facing north of temporary floating docks and vessels in 1 Herald Plaza.



View of garbage can without lid in 1 Herald Plaza.


View of water taxi with manatee observer (blue shirt) on board.



View of water taxi with manatee observer on board about to depart 1 Herald Plaza.



View facing west of boat show vessels in 1 Herald Plaza.



View facing south of boat show vessels in 1 Herald Plaza.



View of water taxis at 1 Herald Plaza.



View of garbage can without lid in 1 Herald Plaza.



View facing east of boat show vessels at FEC slip.



View of water taxi at FEC slip.



View of water taxi with manatee observer at FEC slip.



View facing west of temporary floating docks and tents at FEC slip.



View of manatee educational and awareness signs at the FEC slip.



View facing east of temporary floating docks, vessels, and exhibitor tents at FEC slip.



View of covered trash can at FEC slip.



Roswell vessel returning to Sea Isle Marina properly displaying the green placard and sea trial pennant.



Roswell vessel returning to Sea Isle Marina properly displaying the green placard and sea trial pennant.




Vessels conducting sea trials outside of the marked channel along the southwest corner of Port Miami.



# COASTAL INSPECTION REPORT

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|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 and CLI-2021-0344 |
| **PROJECT NAME:** | Yachting Promotions, Inc. |
| **LOCATION:** | 1 Herald Plaza<br>Sea Isle Marina – 1635 North Bayshore Drive<br>FEC Slip – 801 Biscayne Blvd. |
| **WATERWAY:** | Biscayne Bay |
| **PERMIT PROJ. MGR.:** | Tammy Burton |
| **DATE:** | February 19, 2022 **TIME:** 9:30 a.m. – 6:00 p.m. |
| **INSPECTOR(S):** | Luis Fernandez, Felix Alvarez, Pamela Sweeney, Michelle Metcalf, and John Ricisak |

On January 14, 2022, a modification to Class I permit CLI-2018-0071 was issued to Yachting Promotions, Inc for the annual Miami International Boat Show taking place between February 16, 2022 and February 20, 2022. The authorized work included:

- Temporary installation of floating docks, tents, access ramps, and associated piles for the creation of 650 temporary slips for the annual boat show.
- Installation of 3 “No Entry” piles as indicated on the final approved plans.
- Installation of 10 “No Entry” marker buoys secured by helix anchors as indicated on the final approved plans.
- Installation of 2 “No Mooring” signs along the floating docks as indicated on the final approved plans.
- Installation of wave breaks consisting of steel barges along the southern and northeastern boundaries of the submerged lands lease as indicated on the DERM final approved plans.
- Authorization for the operation of water taxi services between the project location sites, the FEC Slip, and the Island Gardens Marina.
- Authorization for a maximum of 150 sea trial slips within the existing Sea Isle Marina.

On February 19, 2022, DERM staff consisting of three (3) inspectors from the Coastal Resources Section and two (2) inspectors from the Restoration and Enhancement Section performed inspections via land and water throughout all three authorized boat show locations between the hours of 9:30 a.m. and 6:00 p.m. Staff observations and actions taken throughout the day are below:

<u>Sea Isle Marina/1 Herald Plaza/FEC Slip (inspected via land)</u>:

- Several manatees observed within Sea Isle Marina throughout the day by DERM staff, boat show drone pilots, and boat show manatee observers.
- Sea trials temporarily suspended at various times via VHF Channel #68 in response to manatee sightings within Sea Isle Marina.
- Communication with sea trial vessel captains continued to be an issue via VHF Channel #68 when sea trials were temporarily suspended as a result of manatee sightings.
- Informa staff members in work boat assisted with sea trial vessel traffic in and out of marina when temporary sea trials were suspended.
- Sea trial vessel in first slip of Pier 2 in Sea Isle Marina stirred up bottom when entering/leaving slip. Vessel draft restriction recommended for slip.
- Boat show drone operators continued to monitor for manatees at all three boat show locations.
- Garbage cans throughout show locations had lids, except for a few remaining bins located at 1 Herald Plaza and FEC slip. DERM staff notified boat show personnel.
- Custodial staff were advised to remove overflowing trash along floating dock at 1 Herald Plaza and FEC slip. Matter was addressed immediately.
- Manatee observers on board all water taxi vessels while in operation.
- A gray Takacat dinghy was observed moored to a cleat on the easternmost floating dock on the northwest corner by the gangway to the uplands and Food/Beverage "Port of Call" Tent at the FEC slip.
- No manatees observed at 1 Herald Plaza location or FEC slip.

Sea Trial Route (inspected via water):

- ~35' Blackwater boat attempted to enter Sea Isle Marina and was ordered to leave.
- A Marine Max Cruiser Yachts observed maneuvering north on ICW. City of Miami Marine Patrol issued a warning, but did not pull the sea trial pass.
- SeaDoo Switch (Red) documented maneuvering outside of sea trial route and encroaching onto the Critical Wildlife Area was ordered to return to Sea Isle Marina. City of Miami Marine Patrol pulled their sea trial pennant.
- Multiple manatees observed within Sea Isle Marina, creating vessel congestion outside Sea Isle Marina entrance channel into the ICW.
- Law enforcement fixed-wing aircraft observed flying over boat show.
- City of Miami Marine Patrol removed one (1) sea trial pennant for a vessel traveling outside of the designated mandatory sea trial route.
- No manatees observed within the sea trial route.

As with the day before, DERM staff continued to communicate non-compliance issues with boat show personnel from Informa throughout the day.

Below is a summary of DERM observations and actions taken by DERM staff and boat show personnel:

Upon arrival at Sea Isle Marina at approximately 9:45am, DERM staff immediately observed a manatee within the no entry area at the west end of Pier 1. The manatee was observed resting and feeding near the first two slips of the pier. The manatee was first spotted by the manatee observers at approximately 9:00am. The manatee remained in the same area between 9:00am and 10:05am. Sea trials were temporarily suspended for vessels located in the first two slips of Pier 1 during the above times. Sea trial vessels

outside of the 50 foot requirement along Pier 1 were allowed to perform sea trials on a case by case basis and vessel movement to and from Pier 1 was monitored by DERM staff and manatee observers.

A second manatee was observed between 1:00pm – 2:00pm resting and feeding between Piers 4 and 5 in Sea Isle Marina. Sea trials were temporarily suspended as needed during the above timeframe and for the piers mentioned. Manatee alerts were provided over VHF Channel #68 and sea trial vessel captains also were alerted by DERM staff and boat show manatee observers on the piers. Sea trial vessels outside of the 50 foot requirement located at Piers 4 and 5 were allowed to perform sea trials on a case by case basis and vessel movement to and from Piers 4 and 5 was monitored by DERM staff and manatee observers.

A third manatee was observed between 3:30pm – 4:00pm resting and feeding near the first two slips of Pier 1. Sea trials were temporarily suspended for vessels located in the first two slips of Pier 1 during the above times. Sea trial vessels outside of the 50 foot requirement along Pier 1 were allowed to perform sea trials on a case by case basis and vessel movement to and from Pier 1 was monitored by DERM staff and manatee observers.

Communication with sea trial vessel captains via VHF Channel #68 continued to be an issue when sea trials were temporarily suspended as a result of a manatee sightings. In response to the continued communication issues, boat show personnel provided the lead manatee observer with a bullhorn in an attempt to remedy the issue. The use of a bullhorn resulted in additional attention to the manatee presence and helped with the communication issues with the sea trial captains.

Sea trial vessels continued to be observed traveling outside of the designated mandatory sea trial vessel route, primarily traveling north along the ICW and east/west along the north side of the Venetian Islands. DERM boat staff continued to verbally warn sea trial captains and law enforcement agencies removed one (1) sea trial vessel pass for encroaching onto the Critical Wildlife Area (CWA). DERM boat staff assisted law enforcement in identifying the above vessel and preventing it from entering the CWA.

Overall, the show set up was found clean, organized, and with good housekeeping. No evidence of vessel repairs, fueling activities, chemical/petroleum product storage, or similar was observed. Manatee awareness and educational signage was posted by access points to the docks from land as well as on information board displays around the show.

<u>Manatee sightings/observations:</u>

DERM staff – 3 manatees observed at Sea Isle Marina.
Manatee observer/drone pilots - 4 manatees observed at Sea Isle Marina and 3 observed from the water taxis between 1 Herald Plaza and FEC slip.

<u>Weather Conditions</u>:

Sunny



View facing west of sea trial vessel leaving Sea Isle Marina with manatee observer on board at bow.



View facing north of Pier 1 in Sea Isle Maria and manatee observer on watch.



View facing west of sea trial vessels along Piers 1-2 in Sea Isle Marina.



View facing south of sea trial vessel leaving Sea Isle Marina.



View facing east of sea trial vessel leaving Sea Isle Marina.



View of sea trial vessel entering first slip of Pier 2 in Sea Isle Marina. Vessel stirred up bottom. Vessel draft restriction recommended.




View of sea trial vessel entering first slip of Pier 2 in Sea Isle Marina. Vessel stirred up bottom. Vessel draft restriction recommended.





View of sea trial vessel traffic entering and leaving Sea Isle Marina.





View of manatee between Piers 1 and 2 in Sea Isle Marina.



View of drone operator assisting DERM staff with vessel movement within Sea isle Marina.



View of water taxis in 1 Herald Plaza with manatee observer on board.

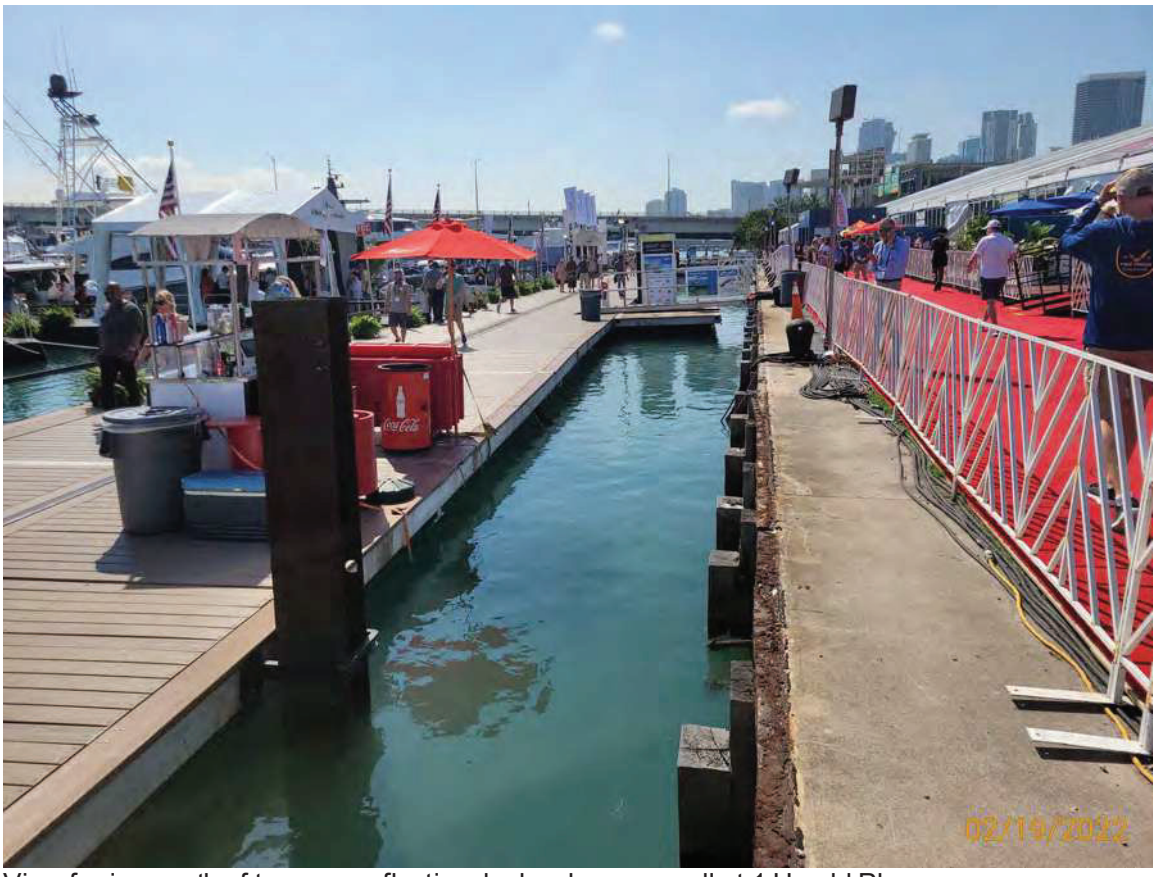




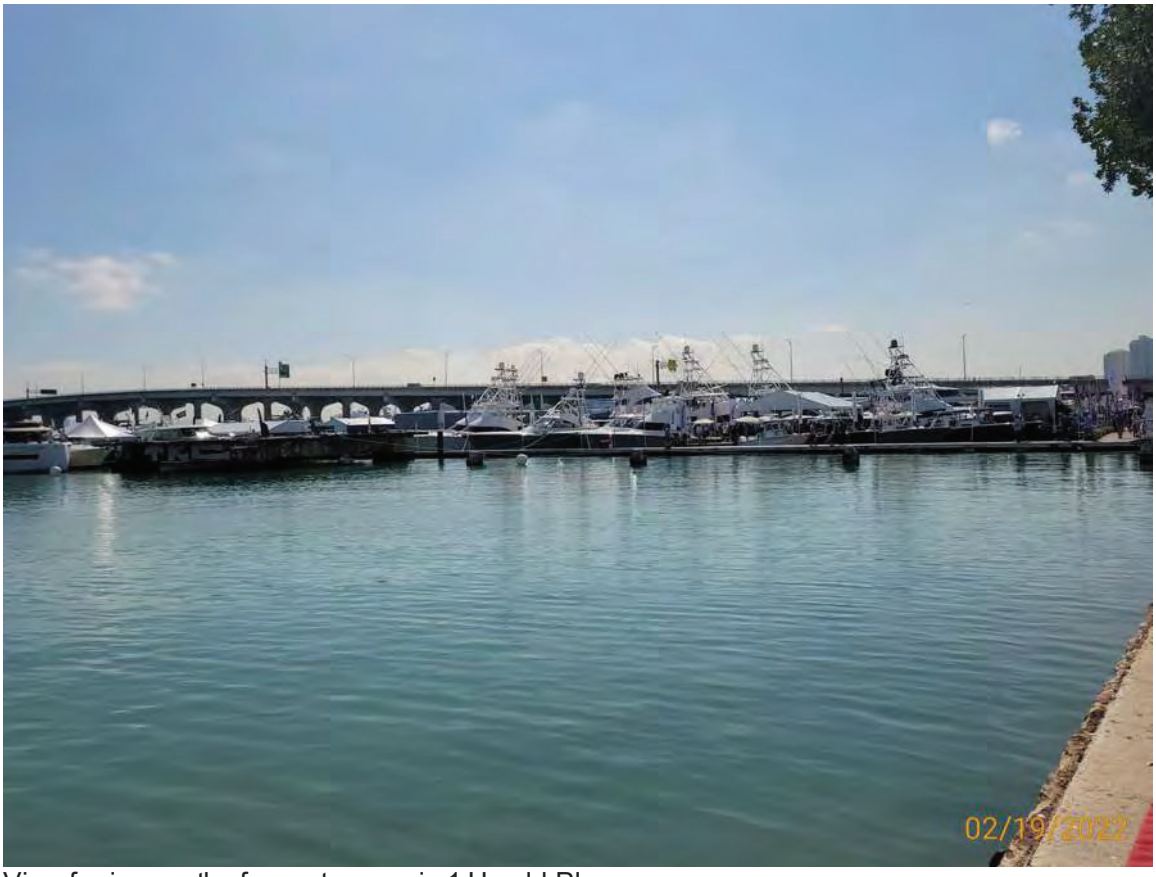
View facing west of temporary floating docks, tents, and show vessels in 1 Herald Plaza.



View facing west of no entry buoys and no entry area at 1 Herald Plaza.



View facing south of temporary floating docks along seawall at 1 Herald Plaza.



View facing south of no entry area in 1 Herald Plaza.



View facing east of no entry area in 1 Herald Plaza.



View facing east of a large vessel with sufficient standoff from temporary floating dock.



View facing south of wave break at southern show limits in 1 Herald Plaza.





View facing west of wave break at southern show limits in 1 Herald Plaza.



View of covered trash can and garbage bag to be serviced by custodial staff.



View facing east of a large vessel with sufficient standoff from temporary floating dock at 1 Herald Plaza.



View facing east of show vessels at FEC slip.



View facing west of water taxi slip at FEC slip.



View facing east of temporary floating docks and show vessels at FEC slip.



View of water taxi at FEC slip with manatee observer.





Gray Takacat dinghy moored to a cleat on the easternmost floating dock by the gangway to the uplands and Food/Beverage “Port of Call” Tent at the FEC slip



Blackwater vessel attempting to enter Sea Isle Marina without the proper credentials and ordered to leave the area.



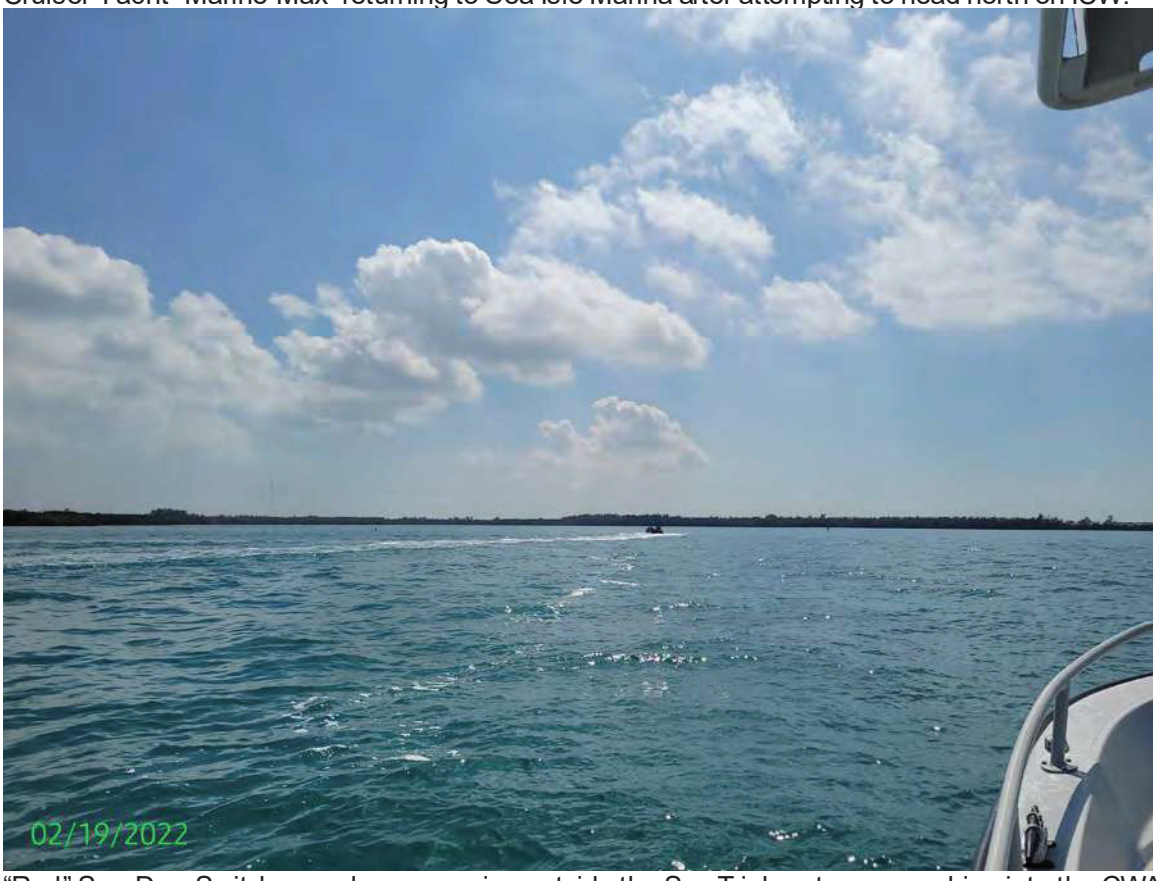
Blackwater vessel attempting to enter Sea Isle Marina without the proper credentials and ordered to leave the area.



Cruiser Yachts “Marine-Max” attempted to head north on ICW and was ordered to turn around.



Cruiser Yacht “Marine-Max” returning to Sea Isle Marina after attempting to head north on ICW.



“Red” Sea-Doo Switch vessel maneuvering outside the Sea Trial route, encroaching into the CWA.



“Red” Sea-Doo Switch vessel maneuvering outside the Sea Trial route, encroaching into the CWA.



“Gene Machine T/T” attempting to transport passengers from Island Gardens Marina to Boat Show taxi slips.




“Petestep” vessel documented picking up sea trial passengers just east of the mooring prohibited area along the north side of the marina.




“Petestep” vessel documented picking up sea trial passengers just east of the mooring prohibited area along the north side of the marina.




“JFA Yacht” owner returning to his vessel on jet-ski and was told that this operation was not authorized.




“JFA Yacht” owner returning to his vessel on jet-ski and was told that this operation was not authorized.



“JFA Yacht” owner returning to the yacht and was told that the jet-ski does not have the proper credentials to be entering and departing Sea Isle Marina.

# COASTAL INSPECTION REPORT

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|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 and CLI-2021-0344 |
| **PROJECT NAME:** | Yachting Promotions, Inc. |
| **LOCATION:** | 1 Herald Plaza<br>Sea Isle Marina – 1635 North Bayshore Drive<br>FEC Slip – 801 Biscayne Blvd. |
| **WATERWAY:** | Biscayne Bay |
| **PERMIT PROJ. MGR.:** | Tammy Burton |
| **DATE:** | February 20, 2022 **TIME:** 9:30 a.m. – 6:30 p.m. |
| **INSPECTOR(S):** | Luis Fernandez, Ken Cathey, Michelle Metcalf, and Santiago Acevedo Del Rio |

On January 14, 2022, a modification to Class I permit CLI-2018-0071 was issued to Yachting Promotions, Inc for the annual Miami International Boat Show taking place between February 16, 2022 and February 20, 2022. The authorized work included:

- Temporary installation of floating docks, tents, access ramps, and associated piles for the creation of 650 temporary slips for the annual boat show.
- Installation of 3 “No Entry” piles as indicated on the final approved plans.
- Installation of 10 “No Entry” marker buoys secured by helix anchors as indicated on the final approved plans.
- Installation of 2 “No Mooring” signs along the floating docks as indicated on the final approved plans.
- Installation of wave breaks consisting of steel barges along the southern and northeastern boundaries of the submerged lands lease as indicated on the DERM final approved plans.
- Authorization for the operation of water taxi services between the project location sites, the FEC Slip, and the Island Gardens Marina.
- Authorization for a maximum of 150 sea trial slips within the existing Sea Isle Marina.

On February 20, 2022, DERM staff consisting of three (3) inspectors from the Coastal Resources Section and one (1) inspector from the Restoration and Enhancement Section performed inspections via land and water throughout all three authorized boat show locations between the hours of 9:30 a.m. and 6:00 p.m. Staff observations and actions taken throughout the day are below:

Sea Isle Marina/1 Herald Plaza/FEC Slip (inspected via land):

- Several manatees observed within Sea Isle Marina, FEC slip, and from water taxis throughout the day by DERM staff, boat show drone pilots, and boat show manatee observers.
- Sea trials temporarily suspended at various times via VHF Channel #68 in response to manatee sightings within Sea Isle Marina.
- Communication with sea trial vessel captains continued to be an issue via VHF Channel #68 when sea trials were temporarily suspended as a result of manatee sightings.
- Informa staff members in work boat assisted with sea trial vessel traffic in and out of marina when sea trials were temporarily suspended.
- Several sea trial vessels were observed not displaying placards.
- Water taxi attempted to enter fuel docks at Sea Isle Marina but was turned away by DERM staff.
- Garbage cans throughout show had lids. Previously observed cans near Sabre/Pardo, Vanquish, Marlow, and Schaefer yachts along the NW and north ends of show were found with covers. All trash cans observed were serviced and not overflowing.
- No boats observed attempting to dock at show for passenger drop off or pick up, other than the designated water taxi vessels.
- Small amounts of floating trash. Custodial staff on site; none observed on docks with nets at time.
- Custodial staff not present during break-down of show and individual vendor tents. Plastic wrap, cardboard, zip-ties, trash, etc. observed scattered on temporary floating docks within vendor tent areas.
- Boat show drone operators continued to monitor for manatees at all three boat show locations.
- Manatee observers on board all water taxi vessels while in operation.
- Manatee awareness and educational signage was posted by access points to the docks from land as well as on information board displays around the show.

Sea Trial Route (inspected via water):

- Marine Max Cruiser Yacht was observed attempting to enter Sea Isle Marina from the north along the ICW. The City of Miami Marine Patrol was advised.
- Freeman vessel was observed traveling north on ICW with placard and pennant. DERM staff spoke to captain and was advised the vessel was being moved to Fort Lauderdale and that sea trials had ended for the remainder of the show. City of Miami Marine Patrol removed sea trial pennant and placard.
- Cape Coral Fire Department vessel was observed traveling north on ICW with placard and pennant. City of Miami Marine Patrol removed their sea trial pennant and placard as the captain advised sea trials had ended for the remainder of the show.
- All Salt vessel was observed traveling east towards Venetian Island with placard and pennant. City of Miami Marine Patrol removed their sea trial pennant and placard as the captain advised sea trials had ended for the remainder of the show.
- Between 2:35 PM – 5:00 PM, multiple sea trial vessels began to travel north along ICW from Sea Isle Marina advising sea trials had ended for the remainder of the show. No sea trial placard or pennants were observed on these vessels.

- Multiple vessels throughout the day were observed attempting to enter Sea Isle Marina for fuel and were turned away by City of Miami Marine Patrol and DERM staff.
- City of Miami Marine Patrol removed several sea trial vessel pennants however all were related to sea trials ending for the remainder of the show. None were for traveling outside of the designated mandatory sea trial route.
- No manatees observed within the sea trial route.

As with the day before, DERM staff continued to communicate non-compliance issues with boat show personnel from Informa throughout the day.

Below is a summary of DERM observations and actions taken by DERM staff and boat show personnel:

Upon arrival at Sea Isle Marina at approximately 9:45am, DERM staff immediately observed a manatee near the seawall between Piers 4 and 5 in Sea Isle Marina. The manatee was observed resting and feeding. Sea trials were temporarily suspended for vessels located in the first three slips of Piers 4 and 5 for approximately 30 minutes. Sea trial vessels outside of the 50 foot requirement along Piers 4 and 5 were allowed to perform sea trials on a case by case basis and vessel movement to and from Piers 4 and 5 were monitored by DERM staff and manatee observers. A second manatee was observed by the manatee observers at approximately 10:30am resting and feeding between Piers 1 and 2 in Sea Isle Marina.

Communication with sea trial vessel captains via VHF Channel #68 continued to be an issue when sea trials were temporarily suspended as a result of manatee sightings. As with the day before, a bullhorn was utilized by the lead manatee observer to improve communications with sea trial captains. The use of a bullhorn resulted in additional attention to the manatee and improved communication issues with the sea trial captains.

While monitoring sea trial vessel traffic entering and leaving Sea Isle Marina, DERM staff observed a water taxi entering the marina to purchase fuel. DERM staff denied the vessel entry and contacted boat show personnel to confirm that the fueling of vessels other than sea trials was not authorized. Boat show personnel confirmed that water taxis were not to fuel at Sea Isle Marina.

Early on in the day, sea trial vessels continued to be observed traveling outside of the designated mandatory sea trial vessel route primarily traveling north along ICW and east/west along the north side of the Venetian Islands. DERM boat staff continued to verbally warn sea trial vessel captains. Since it was the final day of the show, many sea trial vessels began to leave the show in the afternoon by traveling north along the ICW. Law enforcement removed sea trial vessel pennants from these vessels in order to prevent re-entry. No sea trial pennants were removed by law enforcement for traveling outside of the mandatory designated sea trial route.

At approximately 2:10pm, DERM staff received a phone call from the drone operator on watch at the FEC slip. The drone operator stated that a manatee had been in the FEC slip notch for several hours and appeared injured. DERM staff responded and arrived at the FEC slip at approximately 2:50pm. Upon arrival the manatee was found at the bow of a moored sailboat near the southwest end of the boat show pier. The manatee was floating at the surface with its back partially out of the water and still, only moving slightly with the current. DERM staff requested to board the sailboat for a closer look, which was

granted by show exhibitor staff. The manatee had 4 large cuts along its back, which may have been from propeller strikes, along with a large white tissue wound. No blood was observed at the time and it did not look as if the wounds were fresh. It was not initially clear of the condition the manatee was in, however, DERM staff was able to confirm/observe it breathing. In speaking with show exhibitor staff, it was said the manatee had been around all morning and had basically been floating there with little to no movement of its own. It was also said to have released a lot of gas. DERM staff later advised water taxi staff of the manatee in the basin and to be on the lookout for any others. DERM staff met with the drone operator who stated he had first seen the manatee around 11:30am and had been watching it since during his drone flights.

Upon returning to the SW end of the dock at 3:50pm, where manatee was last seen, DERM staff was no longer able to locate it. DERM alerted FWC of a possible injured manatee and requested assistance. US Fish & Wildlife and FWC officers responded to investigate however, at approximately 4:00pm the officers departed without finding, or looking further for, the manatee. At 4:05pm drone operator advised DERM staff he saw a manatee surface along the south side of the FEC slip and the FWC boat passed close to it after it submerged again. Prior to leaving the show for the day, drone operator advised DERM staff that he last saw the manatee outside the wave break at around 4:20pm. As the show concluded at 5:00pm, DERM staff continued to check the site for the manatee previously observed, including along the length of the east side of Museum Park as well as along the seawall behind (east of) the FTX Arena. The manatee was not observed again by DERM staff.

At approximately 5:45pm, while vendors were breaking down and cleaning their dedicated spaces at the FEC slip, DERM staff observed an employee from one of the vendor tents dumping a small amount of a sand/pebble mixture into the water from what appeared to be a potted plant holder. The vendor was verbally warned that dumping of any type of material including sand/pebbles into tidal waters is considered littering and is strictly prohibited.

At the FEC slip, overall show breakdown was not found clean, organized, or with good housekeeping. Custodial staff was not observed during breakdown. Plastic wrap, cardboard, zip-ties, trash, etc. were observed scattered throughout the majority of the temporary floating docks and individual vendor tent areas. Boat show personnel was contacted to address the above issues and responded by immediately sending custodial staff to the site.

Manatee sightings/observations:

DERM staff – 2 manatees observed – 1 at Sea Isle Marina and 1 at FEC slip.
Manatee observer/drone pilots - 6 manatees observed - 3 at Sea Isle Marina, 2 at FEC slip, and 1 on sea trial vessel.

Weather Conditions:

Partly cloudy and rainy



View facing south of sea trial vessel entering Sea Isle Marina with manatee observer on board.



View facing east of temporary floating docks and vessels at Sea Isle Marina.



View facing east of temporary floating docks and vessels at Sea Isle Marina.



View facing north of temporary floating docks and vessels at Sea Isle Marina.



View facing east of temporary floating docks and vessels at Sea Isle Marina.



View facing east of temporary floating docks and vessels at Sea Isle Marina.



View facing east of temporary floating docks and vessels at Sea Isle Marina.





View of covered trash can at Sea Isle Marina.



View facing east of temporary floating docks and vessels at Sea Isle Marina.



View facing east of temporary floating docks and vessels at Sea Isle Marina.



View facing north of temporary floating docks and vessels at Sea Isle Marina.



View facing east of water taxi with manatee observer on board about to depart Sea Isle dock.



View facing west of temporary floating docks and vessels at Sea Isle Marina.



View facing east of temporary floating docks and vessels at Sea Isle Marina. Covered trash can.



View facing west of temporary floating docks and vessels at Sea Isle Marina.



View facing south of sea trial vessels along Pier 5 in Sea Isle Marina.



View facing south of sea trial vessels along Pier 5 in Sea Isle Marina.



View facing west of sea trial vessels along Pier 5 in Sea Isle Marina.



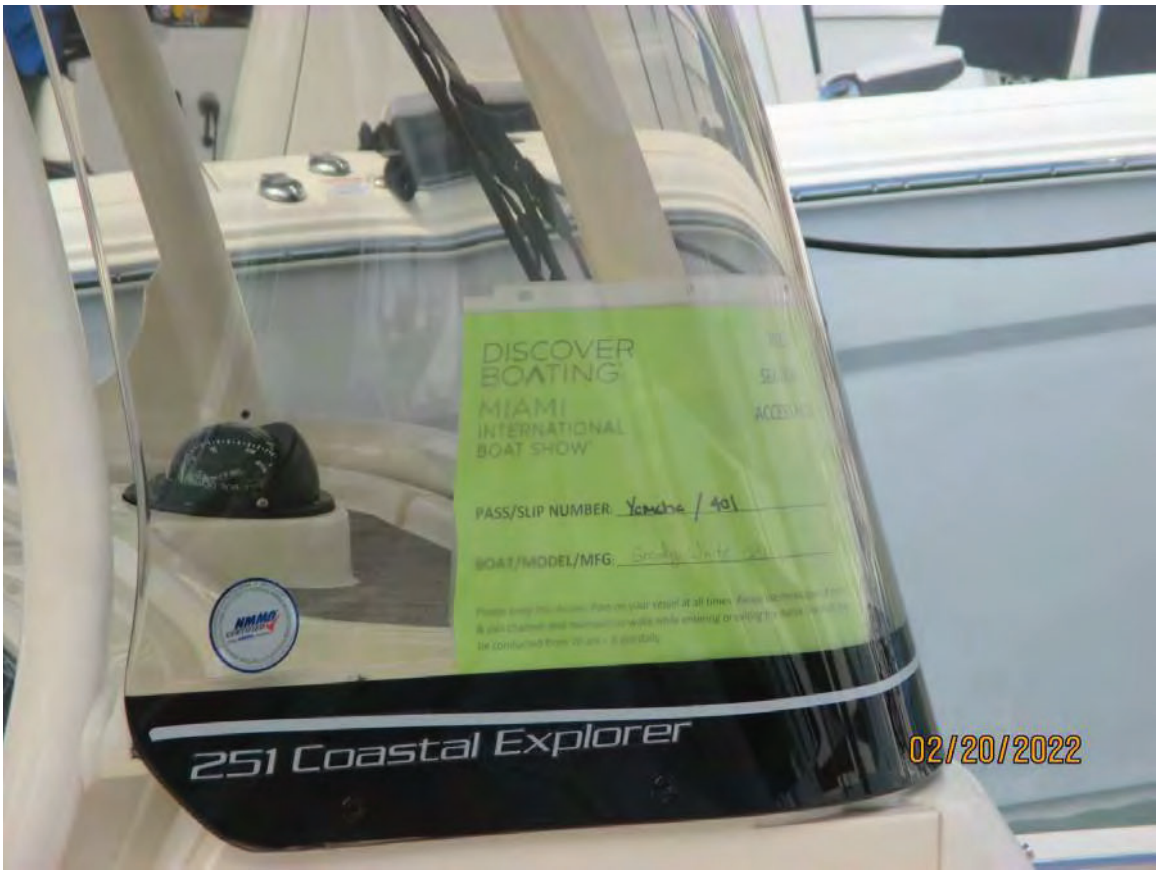
View facing west of sea trial vessels along Pier 5 in Sea Isle Marina.



View of sea trial vessel employee removing trash from water.



View of sea trial vessel entering Sea Isle Marina displaying placard and with manatee observer on board.



View of placard displayed on sea trial vessel.



View facing east of City of Miami Marine Patrol (left) vessel monitoring entrance to Sea Isle Marina.



View facing east of drone station at the end of Pier 1 in Sea Isle Marina.



View of “No Pick-up / Drop-off” sign posted at Sea Isle Marina.



View facing west of boat show work boat assisting with vessel traffic inside Sea Isle Marina.



View of a sea trial vessel on authorized sea trial route.



View facing south of sea trial vessel leaving Sea Isle Marina with manatee observer on board at bow.



View east of a Gray Freeman leaving the boat show and City of Miami Marine Patrol removing sea trail vessel placard and pennant.



View looking south of a sea trial vessel returning to Sea Isle Marina.



View looking east of the Cape Coral Fire Department vessel leaving the boat show. City of Miami Marine Patrol removed sea trail pennant and placard.




View looking east of the All Salt vessel leaving the boat show. City of Miami Marine Patrol removed sea trail pennant and placard.




View looking east of a sea trial vessel heading north, leaving Sea Isle Marina and the show. No placard or pennant visible.



View of a sea trial vessel leaving Sea Isle Marina and the show. No placard or pennant visible.



View of sea trial vessel traveling north leaving the show. City of Miami Marine Patrol was unable to remove sea trial pennant and verbally waned captain.



View facing south of sea trial vessel leaving Sea Isle Marina and the boat show. No placard or pennant visible.



View of a sea trial vessel leaving Sea Isle Marina and the boat show. No placard or pennant visible.





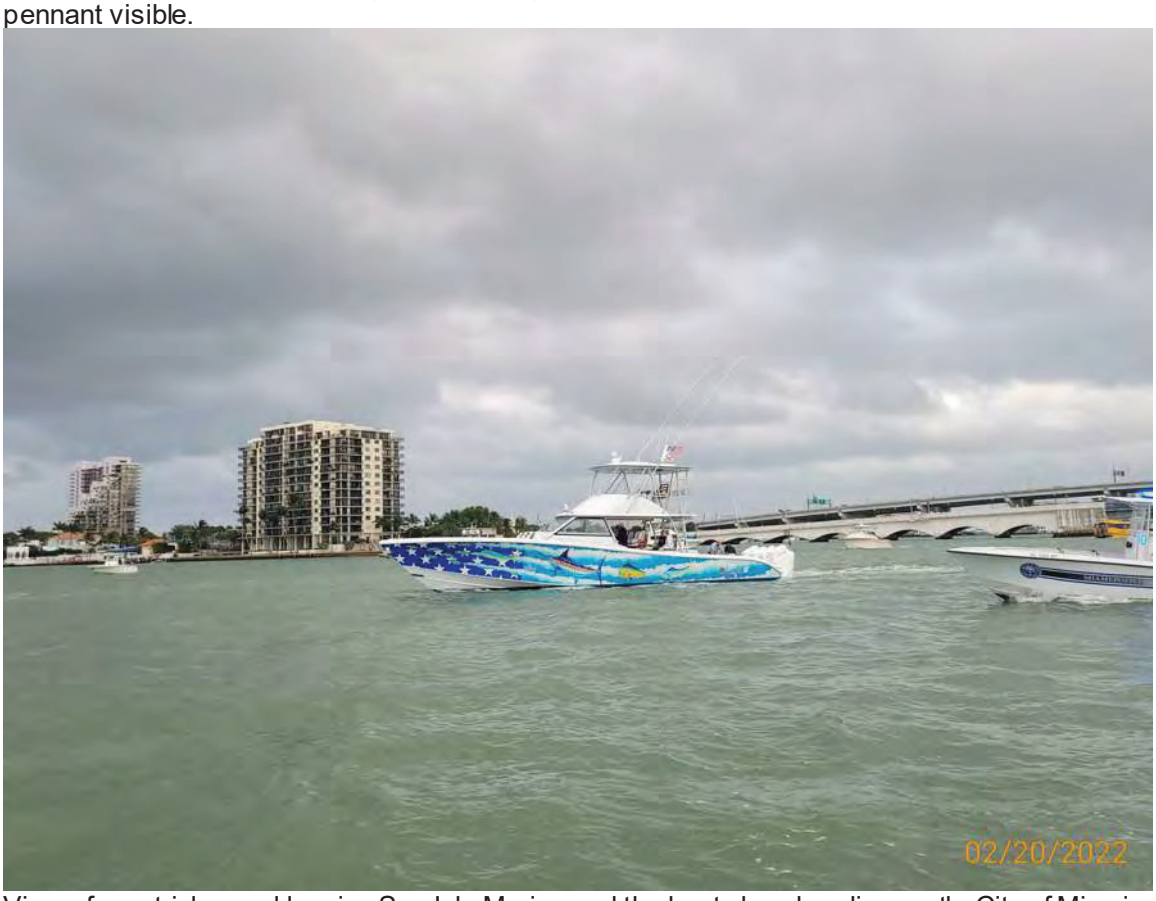
View of sea trial vessel leaving Sea Isle Marina and the boat show heading north. No placard or pennant visible.



View of sea trial vessel heading south leaving Sea Isle Marina and the show. No placard or pennant visible.



View of sea trial vessel heading north leaving Sea Isle Marina and the show. No placard or pennant visible.



View of sea trial vessel leaving Sea Isle Marina and the boat show heading north. City of Miami Marine Patrol verified and no placard or pennant visible.



Plastic water bottle floating in water along 1 Herald Plaza.  Origin unknown,



Covered trash can provided along NW leg of floating dock at 1 Herald Plaza.



Covered trash can provided along NW leg of floating dock at 1 Herald Plaza.



Water taxi vessel leaving 1 Hearld Plaza with manatee observer (blue shirt, back corner) on board.



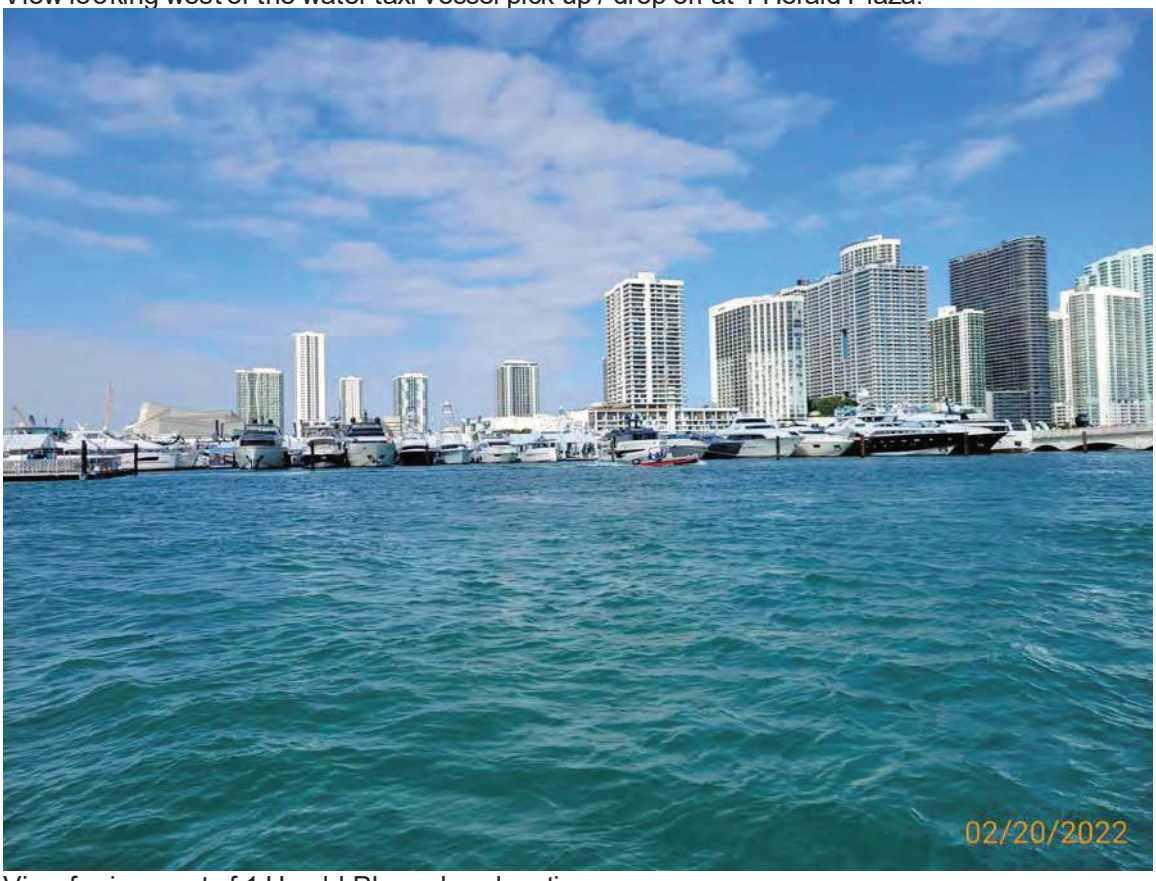
Manatee observer on board water taxi.



Looking north from south end of 1 Herald Plaza dock. City of Miami Marine patrol staged along ICW near water taxi dock.



View looking west of the water taxi vessel pick up / drop off at 1 Herald Plaza.



View facing west of 1 Herald Plaza show location.



View facing west of 1 Herald Plaza show location.



Manatee reported by drone operator at the FEC slip found floating near moored vessels at SW end of temporary show pier at approximately 2:50pm.



Close up view of reported manatee in FEC slip, floating at bow of moored sailboat. Manatee was not moving at the time and found with what looked to be propeller cuts and a tissue wound.



Reported manatee observed breathing.




One of two work boats associated with show arrived in FEC slip to disconnect and relocate floating dock sections for the access walkway to uplands at the NE end of the pier (~ 4:15pm).




Floating dock sections shown relocated to the terminal end of the pier, removing the access walkway to uplands previously provided at the NE end of the temporary pier.







Show staff shown relocating floating dock sections, which made up the NE access walkway to the uplands, to the waterward (east) end of the temporary pier prior to show ending.







Nautitech sailing catamaran While One, an exhibitor vessel, observed leaving the FEC slip at 5:15pm just after the close of the show.




Looking west along north side of the FEC slip. Existing mooring structures shown along with temporary boat show tents and exhibitor vessels.




Looking south at east end of temporary pier, after show closure. Floating dock sections from access walkway at the NE relocated. Water taxi vessel at opposite end of terminal end of pier.



Looking NE showing the Mansion Yacht maneuvering around the IWC just south of the I-395 bridge after leaving 1 Herald Plaza.



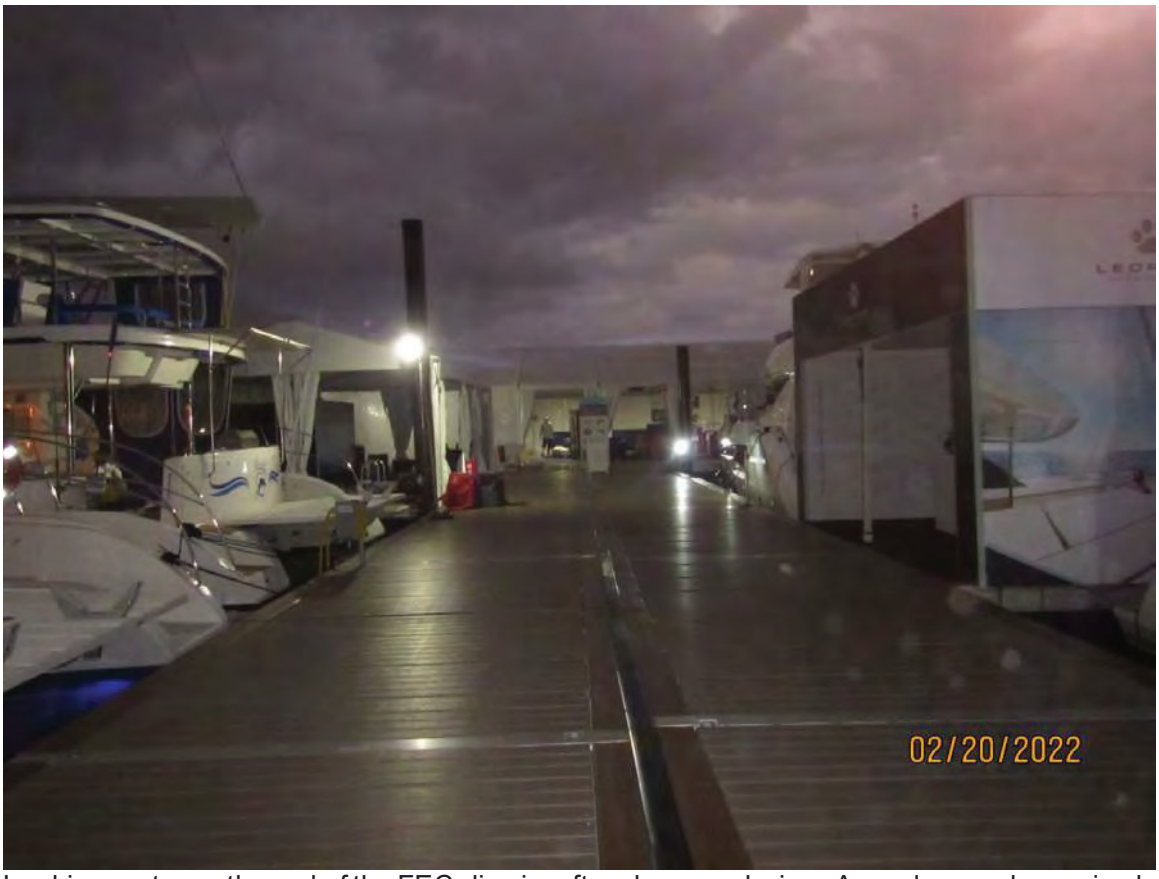
Looking east along temporary show pier in the FEC slip after show conclusion. Pier overall clean and organized. Exhibitors in process of breaking down displays.



Exhibitor tent cleared out. Small amounts of trash/debris such as zip-ties left along deck.



Exhibitor tent being cleared out. Small amounts of trash/debris such as zip-ties left along deck.



Looking east near the end of the FEC slip pier after show conclusion.  Area clean and organized.

# COASTAL INSPECTION REPORT

| | | | |
|---|---|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 | | |
| **PROJECT NAME:** | Yachting Promotions, Inc. | | |
| **LOCATION:** | 1 Herald Plaza, 1635 & 1737 North Bayshore Drive<br>Miami, Florida | | |
| **WATERWAY:** | Biscayne Bay | | |
| **PERMIT PROJ. MGR.**: | Tammy Burton | | |
| **DATE:** | February 23, 2022 | **TIME:** | 3:15 PM |
| **INSPECTOR(S):** | Damien Hamrick | | |

An inspection conducted of the project site located east of 1 Herald Plaza, on February 23, 2022, at approximately 3:15 p.m., documented that the demolition of the temporary floating dock structures associated with the 2022 boat show has commenced. The site was viewed from the MacArthur Causeway facing north. At the time of the inspection Informa staff were observed deconstructing and removing the structures (i.e., tents, equipment, etc.) located on top of the temporary floating docks. Additionally, sections of the floating docking structure were observed stockpiled adjacent to the seawall at the southern end of 1 Herald Plaza where they were being removed from the waterway utilizing a crane. Note that a designated manatee observer, wearing a yellow vest, was observed on the uplands where the temporary floating dock sections were being removed from the waterway.

The project site located to the east of 1636 North Bayshore Drive and 1737 North Bayshore Drive was also observed where the demolition and removal of the structures/equipment located on top of the temporary floating docks was in progress.

While on-site I contacted John Nigro, Director of Operations of Informa, via telephone. He confirmed that the presence of the above-described designated manatee observer. Furthermore, he explained that the contractor, B&M Marine Construction, had finished work for the day and was no longer on-site at the time of the inspection. Additionally, that the work in progress at the time of inspection was limited to the removal of structures/equipment from the floating docks and the removal of the above-described stockpiled floating docks from the waterway. Mr. Nigro claimed that multiple designated manatee observers are being employed where and when in-water demolition activities are in progress.

See the attached photos.




Figure 1 & 2 – View from the MacArthur facing north depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show.

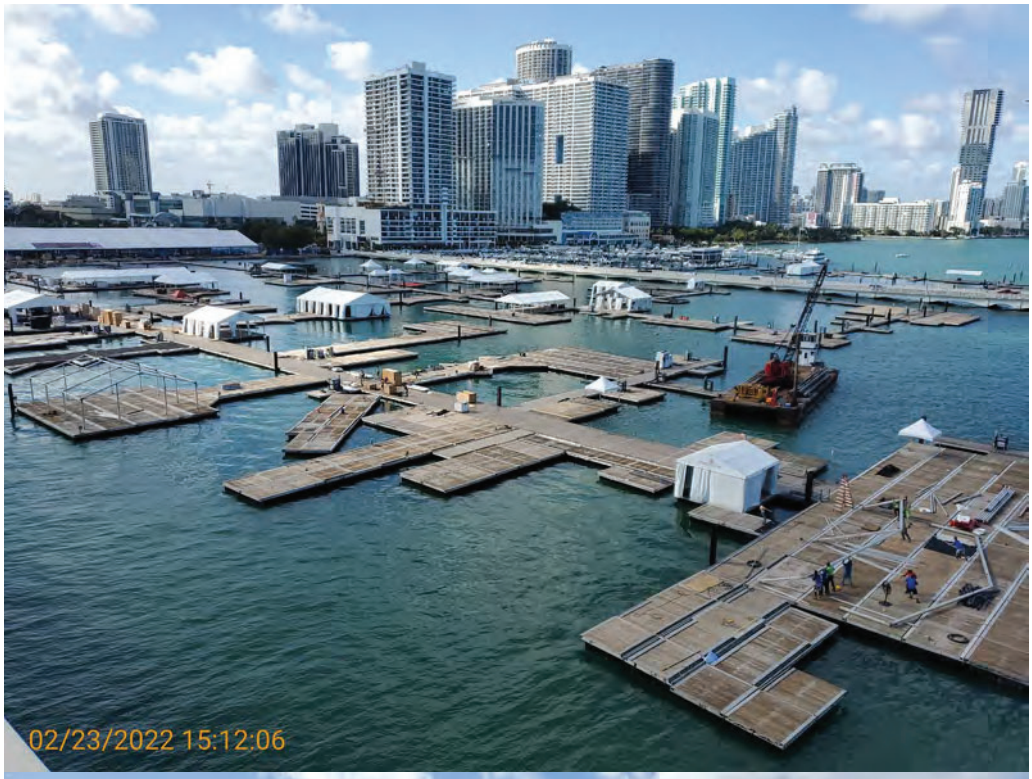






Figure 3 & 4 – View from the MacArthur facing northwest depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show.




Figure 5 – View from the MacArthur facing from east to west towards the uplands depicting stockpiled sections of the temporary floating dock structure pending removal from the waterway.

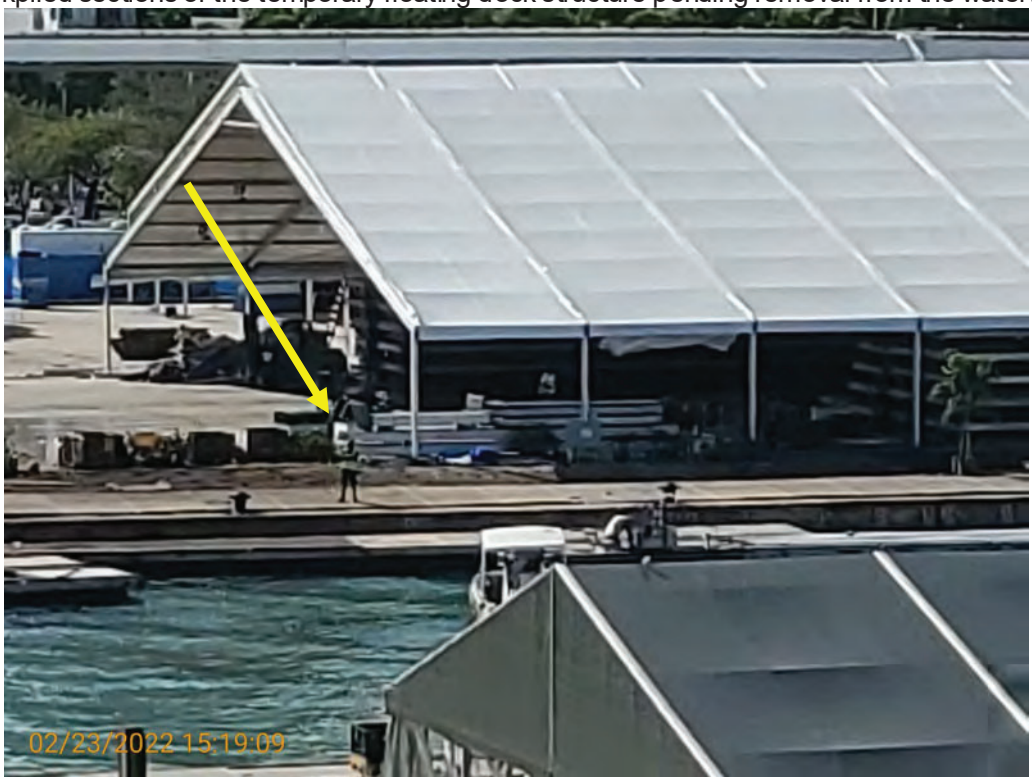


Figure 6 – Close-up view of the designated manatee observer present on-site at 1 Herald Plaza where sections of the temporary floating dock are being removed from the waterway. Yellow arrow indicates manatee observer.







Figure 7 & 8 – View from the MacArthur facing north/northwest depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show.




Figure 9 & 10 – View from the MacArthur facing north/northeast depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show.




Figure 11 & 12 – View from the MacArthur facing north/northwest depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show located to the east of 1636 North Bayshore Drive and 1737 North Bayshore Drive



Figure 13 – View from the MacArthur facing north/northwest depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show located to the east of 1636 North Bayshore Drive and 1737 North Bayshore Drive

# COASTAL INSPECTION REPORT

| | | | |
|---|---|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 | | |
| **PROJECT NAME:** | Yachting Promotions, Inc. | | |
| **LOCATION:** | 1 Herald Plaza, 1635 & 1737 North Bayshore Drive<br>Miami, Florida | | |
| **WATERWAY:** | Biscayne Bay | | |
| **PERMIT PROJ. MGR.**: | Tammy Burton | | |
| **DATE:** | February 24, 2022 | **TIME:** | 3:00 PM |
| **INSPECTOR(S):** | Michelle Metcalf | | |

An inspection conducted of the project site located east of 1 Herald Plaza, on February 24, 2022, at approximately 3:00 p.m., documented that the demolition of the temporary floating dock structures associated with the 2022 boat show has commenced. At the time of the inspection Informa staff were observed deconstructing and removing the structures (i.e., tents, equipment, etc.) located on top of the temporary floating docks. Additionally, sections of the floating dock structures were observed stockpiled adjacent to the seawall at the southern end of 1 Herald Plaza waiting to be removed by crane to the inside of the main tent on the uplands. Note that a designated manatee observer, wearing a yellow vest, was observed on the uplands where the temporary floating dock sections were being removed from the waterway.

The project site located to the east of 1636 North Bayshore Drive and 1737 North Bayshore Drive also was inspected which revealed demolition and removal of the structures/equipment located on top of the temporary floating docks had been complete. The associated pilings remain on-site, and no active demolition activities was observed.

While on-site I advised Gilbert, Director of Operations of Informa that the manatee logbook must always be with the manatee observer in lieu of being with the crane operator. Additionally, I informed Gilbert of the loose construction debris present on the temporary floating docks, debris within the adjacent waterway, and lose Styrofoam packaging on the floating docks. He advised the custodial staff to clean up any loose debris, remove any discharged debris/trash from the waterway, and properly dispose of the Styrofoam packaging in the trash can.

See the attached photos.




View east depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show.




View north depicting stockpiled sections of the temporary floating dock structures underneath main tent on the uplands pending removal from the site.

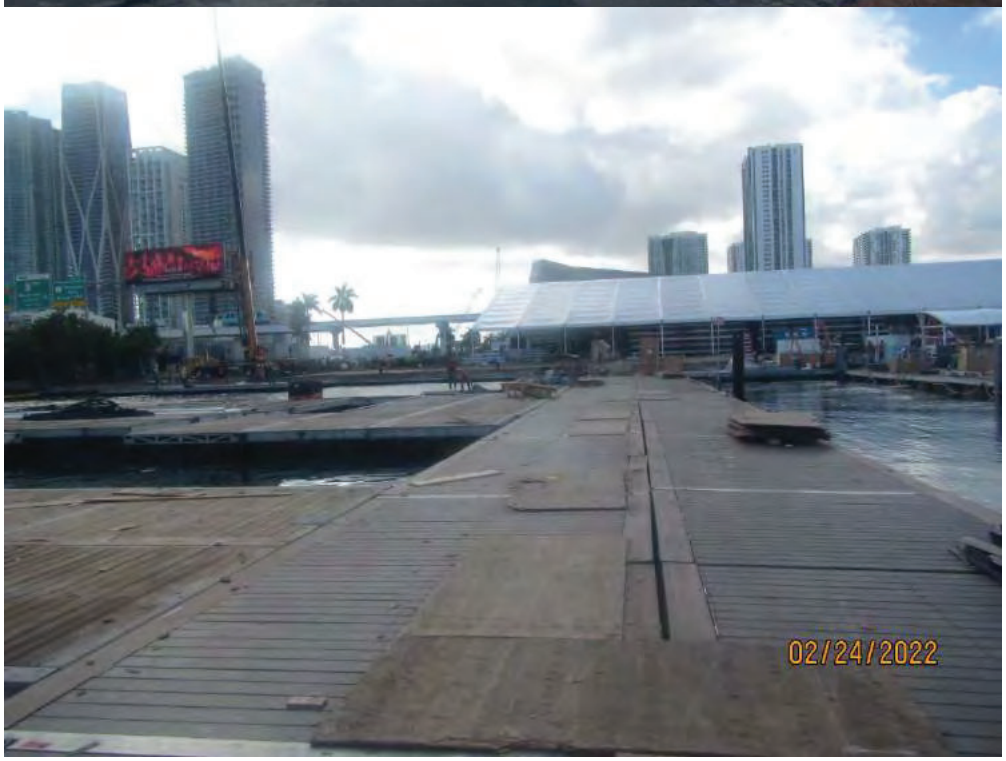



View of the designated manatee observer present on-site at 1 Herald Plaza where sections of the temporary floating dock are being removed from the waterway. Yellow arrow indicates manatee observer.




View of debris i.e. wood and plastic floating in water between the temporary floating docks.




View north depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show




View east depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show.




View west depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show.



View northeast of the no entry/buoy area.




View of the construction barges moored along Pier 5. No active demolition activities observed between 1636 North Bayshore Drive and 1737 North Bayshore Drive.




View facing east depicting the remaining associated temporary floating dock support piles to be removed located at 1636 North Bayshore Drive and 1737 North Bayshore Drive.




View facing east depicting the remaining associated temporary floating dock support piles to be removed located at 1636 North Bayshore Drive and 1737 North Bayshore Drive.




View east of barge storing structures removed thus far including tents, access ramps, etc. associated with the 2022 boat show located at 1636 North Bayshore Drive and 1737 North Bayshore Drive.

# COASTAL INSPECTION REPORT

| | | | |
|---|---|---|---|
| **PERMIT NUMBER:** | CLI-2018-0071 | | |
| **PROJECT NAME:** | Yachting Promotions, Inc. | | |
| **LOCATION:** | 1 Herald Plaza, 1635 & 1737 North Bayshore Drive Miami, Florida | | |
| **WATERWAY:** | Biscayne Bay | | |
| **PERMIT PROJ. MGR.**: | Tammy Burton | | |
| **DATE:** | February 25, 2022 | **TIME:** | 11:15 AM |
| **INSPECTOR(S):** | Damien Hamrick | | |

An inspection conducted of the project site located east of 1 Herald Plaza, on February 25, 2022, at approximately 11:15 a.m., documented that the demolition of the temporary floating dock structures associated with the 2022 boat show continues. The temporary floating dock sections were being removed from the waterway and placed onto the uplands at the southern end of 1 Herald Plaza. A designated manatee observer was present at the southern end of the property however was observed sitting under the tent, on the adjacent uplands, without a clear line of sight for the waterway in which the in-water work was being conducted. When asked for the daily manatee logs, the manatee observer claimed he did not know where they were and was unable to provide them. Additionally, while the manatee observer was wearing sunglasses, he was unable to confirm if they were equipped with polarized lenses. Note that the manatee observer briefly approached the seawall to observe the waterway before returning to a position underneath the tent.

While on-site, at approximately 12:00 p.m., I spoke to an individual, who identified himself as "Tipper", claiming to be the individual on-site in charge of the crew removing the floating dock sections from the waterway. I advised him that a designated manatee observer actively observing the in-water work area and properly equipped with a manatee log and polarized sunglasses shall be present at all times when in-water work was being conducted. I advised "Tipper" of the above-described deficiencies and advised him that all in-water work shall cease and desist until the deficiencies were addressed (i.e., manatee observer actively observing, manatee log available, polarized glasses).

At approximately 12:10 p.m., I spoke with John Nigro, Director of Operations of Informa, via telephone. I advised him that a verbal cease and desist had been provided to "Tipper" due to a designated manatee observer(s) not actively observing the adjacent waterway. Mr. Nigro was advised that work may re-commence once a manatee observer was present and properly equipped with a manatee log and polarized sunglasses. Additionally, I informed Mr. Nigro that the inspection had revealed loose debris present on the temporary floating docks, debris within the

adjacent waterway, and overflowing trashcans without lids on the floating docks. He claimed that he would send staff to clean up any loose debris, remove any discharged debris/trash from the waterway, and properly dispose of the trash at the trashcans.

At approximately 12:15 p.m., an inspection of the project site located to the east of 1636 North Bayshore Drive and 1737 North Bayshore Drive documented that the contractor of record, B&M Marine Construction, was removing the remaining piles associated with the temporary floating docks. Note that all individuals observed on the barge were also observed engaged in the demolition and removal of the remaining piles.

Note that the "No Entry" buoys remain installed to the north of the Sea Isle Marina, between piers #1 & #2 within Sea Isle Marina, between piers #2 & #3 within Sea Isle Marina, and to the east of 1 Herald Plaza.

At approximately 12:50 p.m., a re-inspection of the project site located at 1 Herald Plaza revealed that a second designated manatee observer had been placed at the southeast corner of the uplands in addition to the manatee observer documented earlier. The second manatee observer was able to provide the manatee log upon request. Note that the second manatee observer was not equipped with sunglasses. Both manatee observers were present on the uplands and appeared to be actively observing the in-water work area as the floating dock sections were being removed.

See the attached photos.



Figure 1 – View from the uplands facing from north to south depicting the removal of the floating dock sections from the waterway.



Figure 2 – Close-up view of the floating dock sections being removed from the waterway and placed onto the uplands.



Figure 3 – View of the designated manatee observer (indicated by yellow arrow) located under the tent at the southeast corner of 1 Herald Plaza.



Figure 4 – View from the uplands at the southeastern corner of 1 Herald Plaza facing northeast.




Figure 5 & 6 – View from the uplands at the southeastern corner of 1 Herald Plaza facing east waterward.



Figure 7 – View of the designated manatee observer (indicated by yellow arrow) located under the tent at the southeast corner of 1 Herald Plaza.



Figure 8 – View facing from east to west depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show.



Figure 9 & 10 – View facing from north to south depicting temporary floating dock sections being relocated and stockpiled at the southern end of 1 Herald Plaza to be removed from the waterway.

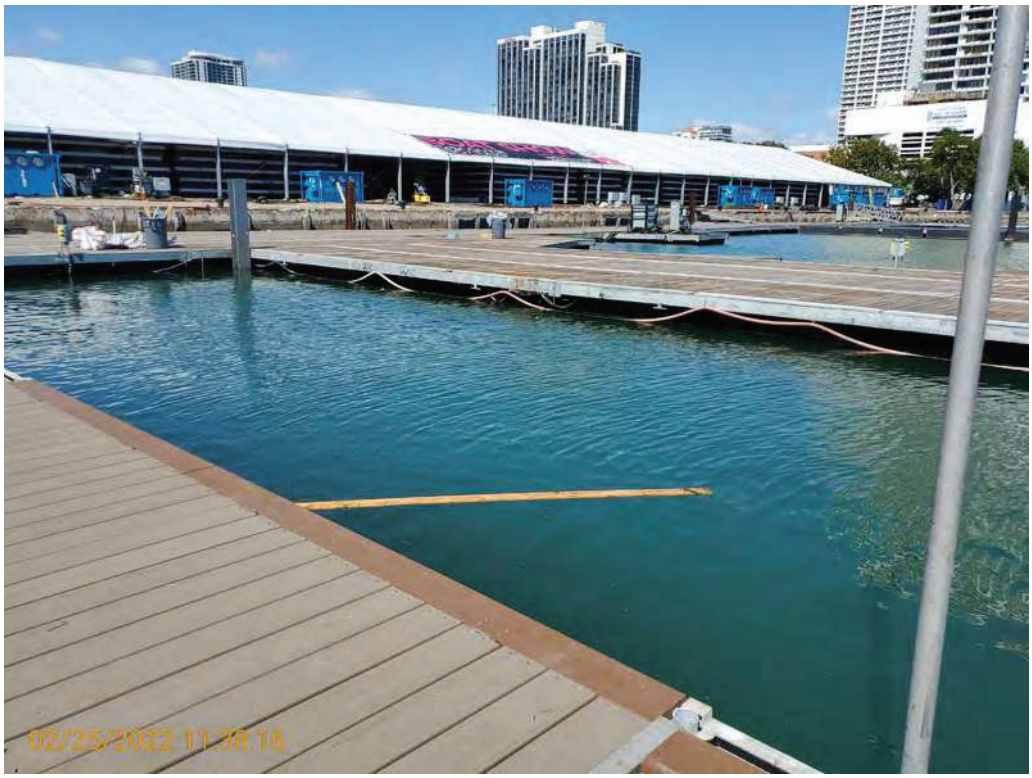


Figure 11 – Close-up view of wood debris floating in water between the temporary floating docks.



Figure 12 – View facing from north to southeast depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show.




Figure 13 & 14 – View facing from west to east/southeast depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show.




Figure 15 & 16 – View facing from south to north/northwest depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show.




Figure 17 & 18 – View facing from west to east/northeast depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show.

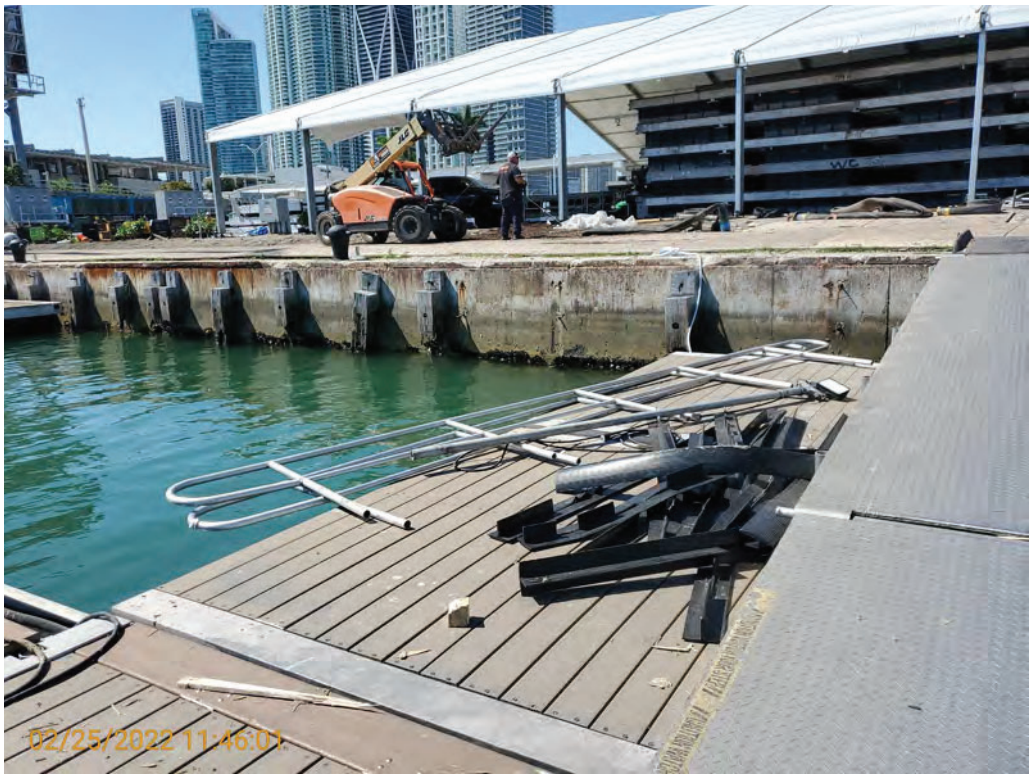


Figure 19 – View of loose demolition materials stockpiled on the temporary floating docks adjacent to access ramp.

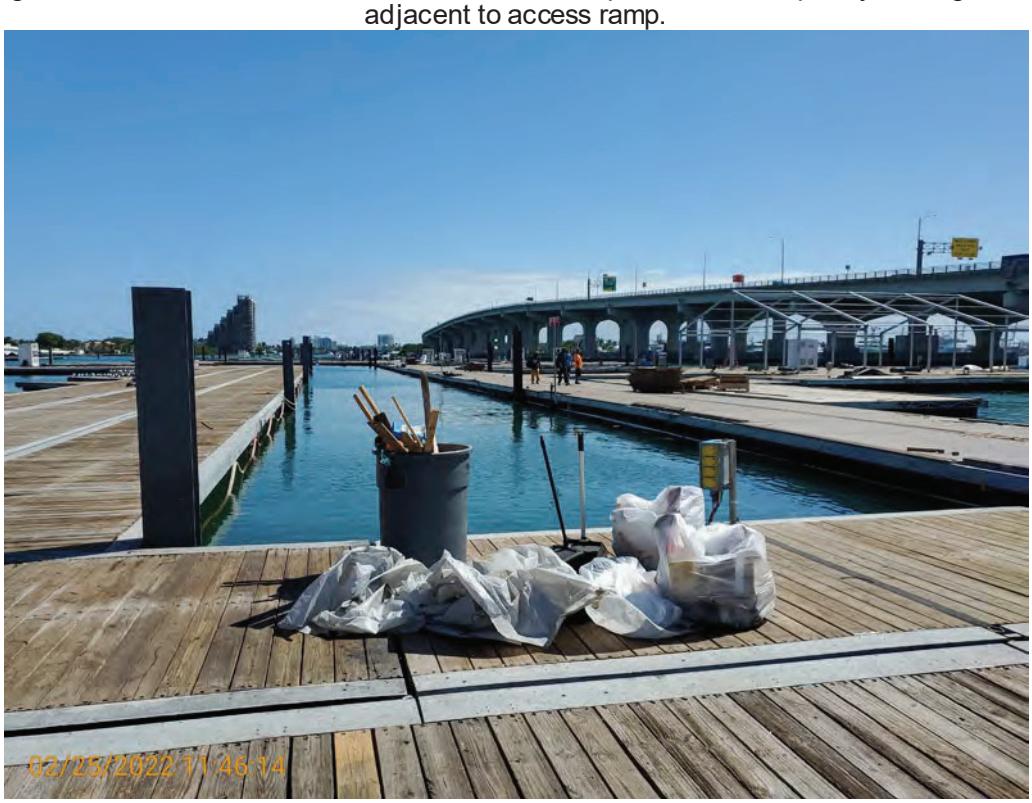


Figure 20 – View of trashcan and trash located at the western side of the temporary floating docks.

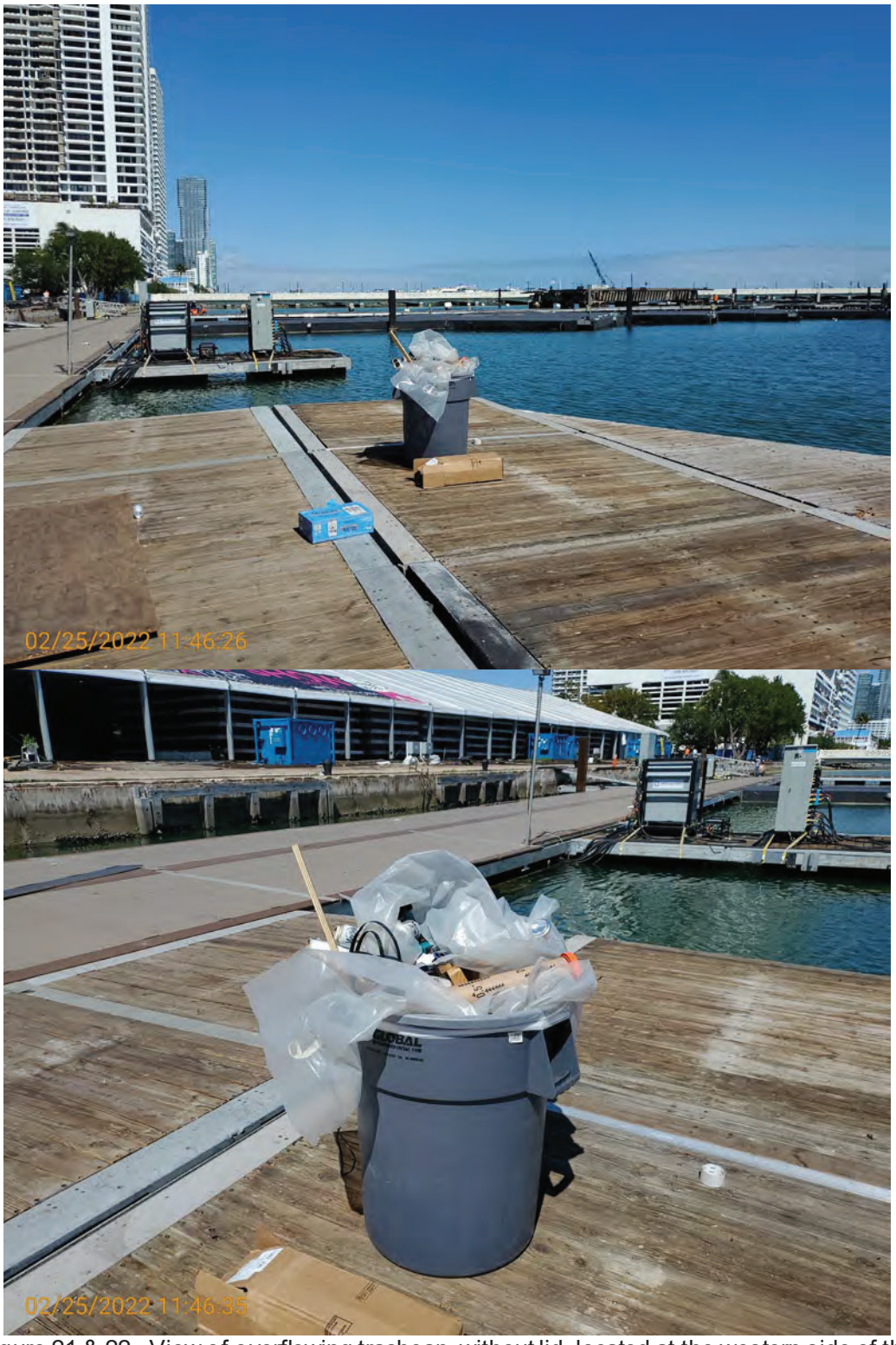


Figure 21 & 22– View of overflowing trashcan, without lid, located at the western side of the temporary floating docks.



Figure 23 & 24 – View from the Venetian Causeway facing north depicting barge moving from west to east removing the remaining piles associated with the 2022 boat show.



Figure 25 – View from the Venetian Causeway facing north depicting barge removing the remaining piles associated with the 2022 boat show.



Figure 26 – Close-up view of barge removing remaining piles associated with the 2022 boat show.



Figure 27 – View from the uplands facing east waterward depicting the “No Entry” buoys located to the north of Pier 1 at Sea Isle Marina.



Figure 28 – View facing from north to south depicting the “No Entry” buoys located between slip #1 and slip #2.

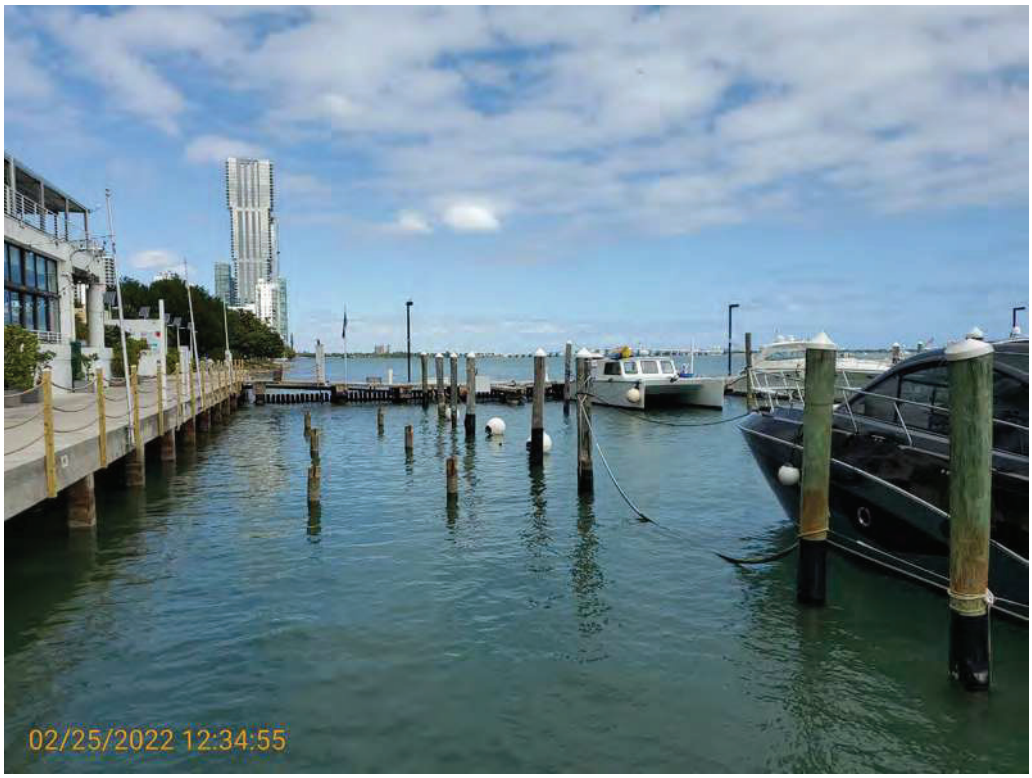


Figure 29 – View facing from south to north depicting the “No Entry” buoys located between slip #1 and slip #2.



Figure 30 – View facing from north to south depicting the “No Entry” buoys located between slip #2 and slip #3.



Figure 31 – View facing from south to north depicting the “No Entry” buoys located between slip #2 and slip #3.

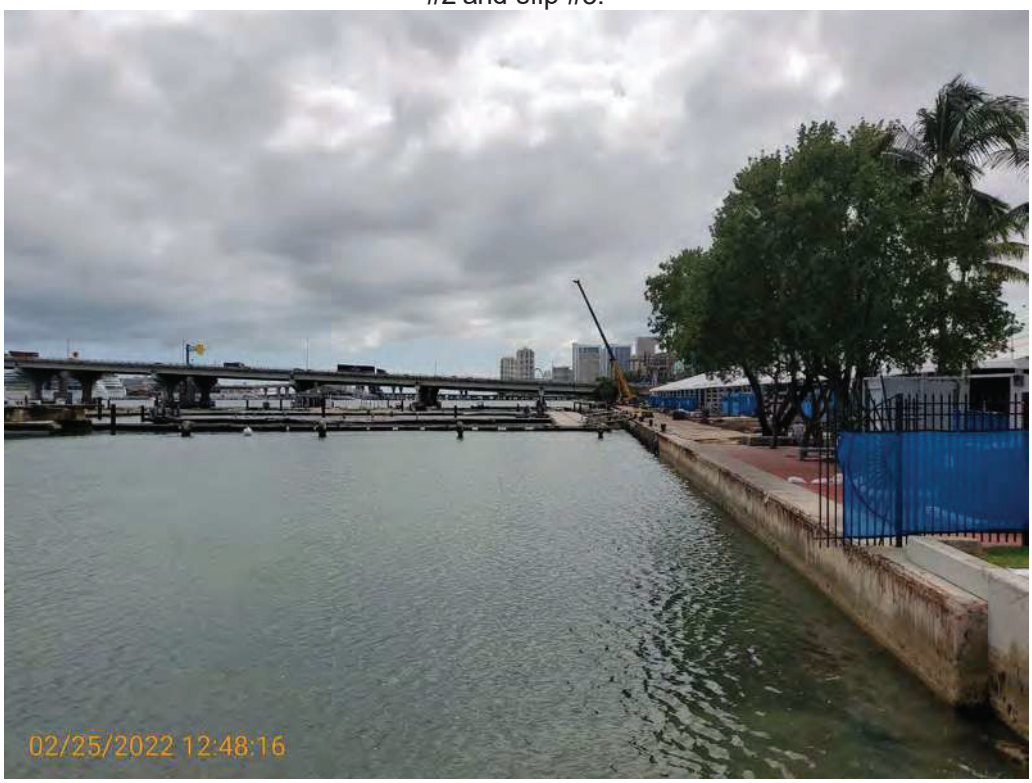


Figure 32 – View from the Venetian Causeway facing south depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show. Note that the “No Entry” remain installed between the existing platform east of 1 Herald Plaza and the uplands.




Figure 33 – View from the Venetian Causeway facing south depicting the demolition/removal of the temporary floating docks, tents, access ramps, etc. associated with the 2022 boat show. Note that the “No Entry” remain installed between the Venetian Causeway and the existing platform east of 1 Herald Plaza.




Figure 34 – View facing from north to south, at 1 Herald Plaza, depicting addition of second designated manatee observer (yellow arrow). Note that (2) designated manatee observers were observed.

# Attachment D

# Manatee Logs

# Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M Marine Const. | Project Name: Boat Show |
| DEP Permit #: | Project Location: Miami Boat Show |
| USACE Permit#: | Work Location: Herald Plaza, Miami |
| USACE Contract#: | |
| Observer Name (and Company): Casey R. Wootton, B&M Marine Const. | Observer Location: Herald Plaza docks, Miami |
| DATE: Feb 1, 2022 | Shift Start: 8:30 am<br>Shift End: 3:36 pm |
| Sunrise: 7:04 am<br>Sunset: | If night time, type of equipment/lights used: / |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| Herald Plaza, Mia | 8:30 | AM | ✓ | Medium | minimal | Good | 16 mph East | None, 10% | 90% |
| Herald Plaza, Mia | 12:30 | PM | ✓ | Medium | minimal 5 | Okay | 18 mph East | None, 10% | 80% |
| Herald Plaza, Mia | 3:00 | PM | ✓ | Medium | minimal 5 | Okay | 17 mph East | None, 10% | 80% |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 8:30 | Arrive, Scan for marine life, minimum boat traffic (1/10) |
| 10:30 | Pre-Startup Scan, boat traffic increasing slightly (2/10), No operation (permission) |
| 12:00 | Begin pile-driving operations, waters clear |
| 12:21 | Shut down operations, Manatee spotted near seawall (x5) |
| 1:03 | Resume operations, waters clear (Boat traffic (3/10) |
| 2:30 | Water clear, operation ongoing nearing daily end |
| 3:36 | Water clear, Barge exiting for day |
| | |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:30-10:30 | | 0 | | | | | | | | |
| 12:24 | M | 3 | 2 | 1 | 600+ft | traveling | yes | 12:24 | 1:03 | 1:24 |
| 12:30 | M | 1 | 0 | 1 | ↓ | traveling | ↑ | ↑ | ↑ | 12:30 |
| 12:33 | M | 1 | 1 | 0 | | traveling | ↑ | ↑ | ↑ | 12:33 |
| 1:48 | M | 1 | 1 | 0 | ↓ | traveling | yes | ↑ | ↑ | 12:48 |
| | | | | | | | | | | |
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| Manatee | 5 | 5 | 0 | Shut down | Shut down x1 due to limited waterway |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature _____

# Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M Marine Const. | Project Name: MIA Boat Show |
| DEP Permit #: | Project Location: Herald Plaza, Miami |
| USACE Permit#: | Work Location: (North) Herald plaza docks, MIA |
| USACE Contract#: | |
| Observer Name (and Company): Casey Wooston B&M marine Const | Observer Location: Herald plaza North Docks |
| DATE: Feb 2, 2022 | Shift Start: 8:10<br>Shift End: 2:35 |
| Sunrise: 7:00 AM<br>Sunset: | If night time, type of equipment/lights used: ✓ |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| Miami | 8:10 | Day | ✓ | Poor | Minimal | Poor | 11mph E | None 0% | 11% |
| MIA | 12:00 | Day | ✓ | Poor | 1ft | Poor | 19mph E | None 10% | 10%. |
| MIA | [illegible] 2:38 | Day | ✓ | Poor | 1ft | Poor | 12 mph E | None 0%. | 6%. |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 8:10 am | begin scanning for sea life before barge arrives, No boat traffic |
| 9:49 AM | begin pile driving, waters clear of marine life Boat traffic 1/10 |
| 10:15 AM | Barge moving inland to drive 51 guide pile near [illegible] Bridge, Boat Traffic 3/10 |
| 11:15 AM | Barge moving N to N SIde of docks |
| 1:00 PM | waters Clear Nothing Spotted, Barge driving second to last pile |
| 2:00 pm | Barge moving to last pile East water clear, traffic 4/10 |
| 2:30 pm | Last pile being driven, NO marine life seen, Traffic 6/10 |
| 2:35 | Told to wrap up, finishing last pile tMW Traffic 7/10 |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| - | 0 | - | - | - | Nothing seen today on N side |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

# Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M marine constructior | Project Name: Miami Boat Show |
| DEP Permit #: | Project Location: Herald Plaza, MIA |
| USACE Permit#: | Work Location: Herald Plaza, Miami |
| USACE Contract#: | |
| Observer Name (and Company): Casey Wootan B&M marine const | Observer Location: North Herald Plaza docks |
| DATE: Feb 3, 2022 | Shift Start: 7:48 Am<br>Shift End: 2:40 pm |
| Sunrise: 7:03 Am<br>Sunset: | If night time, type of equipment/lights used: / |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| Miami | | | | | | | | | |
| Herald Plaza | 7:46 | AM | ✓ | very poor | minmal | very poor | 11mph E/SE | None 10% | 0% |
| Herald Plaza | 12:00 | Pm | ✓ | [illegible] med. | minimal | [illegible] med | 10mph E/SE | None 10% | 15% |
| Herald Plaza | 2:40 | Pm | ✓ | Medium | minimal | medium | 15mph E/SE | None 10% | 35% |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 7:48 AM | Pre scan for marine life, barge inactive until 8, boat traffic 0/10 |
| 8:00 AM | Barge beginning driving, boat traffic 1/10 |
| 9:30 AM | Barge driving outside piles for mat. barge, boat traffic 3/10, waters clear of life |
| 10:20 AM | Barge loading up materials and driving S outside piles, boat traffic 5/10, clear waters |
| 12:00 Pm | Driving outside S piles, waters clear, boat traffic 3/10, |
| 1:00 pm | Barge moving to S side of Plaza, driving piles near bridge, boat traf. 5/10 |
| 2:26 pm | Barge inactive fixing issues, driving final piles, Traffic 3/10 |
| 2:40 pm | Barge packing up for day, No marine life seen today |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | No marine life Seen |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

# Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M Marine construction | Project Name: MIA Boat Show |
| DEP Permit #: | Project Location: Herald Plaza, MIA |
| USACE Permit#: | Work Location: Herald plaza docks, MIA |
| USACE Contract#: | |
| Observer Name (and Company): Casey Wooton B&M Marine Const | Observer Location: Herald Plaza, MIA |
| DATE: Feb 4, 2022 | Shift Start: 7:10<br>Shift End: 2:50 |
| Sunrise: 7:03 AM<br>Sunset: 6:07 PM | If night time, type of equipment/lights used: |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| Her. Plaza, MIA | 7:15 | AM | ✓ | Poor | Minimal | Poor | 9mph SE | 0%. None | 12% |
| Her. Plaza, MIA | 12:00 | PM | ✓✓ | Poor | Minimal | Poor | 15mph SE | 0%, None | 20% |
| Her. Plaza, MIA | 2:00 | PM | ✓✓ | Poor | Minimal | Poor | 9mph SE | 0%, None | 25% |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 7:10 AM | Pre scan for marine life |
| 8:08 AM | Barge inactive awaiting materials to fix barge (Hose and fluid) |
| 9:02 AM | Barge beginning startup, waters clear of marine life, boat traf 2/10 |
| 10:~~58~~ AM | Barge moving towards material Barge to load up and await pile placement |
| 12:05 pm | Barge moving towards Arena to continue pile driving |
| 12:50 pm | Barge driving piles at Arena, boat traffic 3/10 |
| 1:57 pm | Barge moving ~~to pile area to load~~ N to pull pile and load up |
| 2:38 pm | Barge Packing up and getting ride back to Shore |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| / | / | / | / | / | / | / | / | / | / | / |
| - | NO | Marine | life | Spotted | - | | | | | |
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | NO marine life spotted |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

# Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M Marine construction | Project Name: MIA Boat Show |
| DEP Permit #: | Project Location: Herald Plaza, MIA |
| USACE Permit#: | Work Location: Herald Plaza docks, MIA |
| USACE Contract#: | |
| Observer Name (and Company): Casey Woontar B&M Marine Const | Observer Location: Herald Plaza, MIA |
| DATE: Feb 5, 2022 | Shift Start: 7:30<br>Shift End: 2:29 |
| Sunrise: 7:02 AM<br>Sunset: 6:10pm | If night time, type of equipment/lights used: / |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| Herald Plaza | 7:34 | AM | √√ | Poor | minimal | Poor | 7mph N | 40%. None | 20 % |
| Herald plaza | 12:04 | PM | √ | Poor | Minimal | Poor | 9mph E | 40%. None | 20% |
| Herald plaza | 2:00 | PM | √ | Decent | Minimal | Decent | 5mph ESE | None 20% | 15%. |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 7:30 | Pre scan for marine life, boat traffic 2/10 |
| 10:00 | Barge moving to material Barge |
| 11:30 | Barge moving towards Arena |
| 12:00 | Beginning pile driving at Arena boat traffic 4/10 |
| 1:00 | Waters clear, continuing driving piles near arena |
| 2:09 | Barge driving final piles, loading back up for tomorrow |
| 2:21 | Barge shutting down for today, headed back monday |
| | |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| / | / | / | / | / | No marine life spotted |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

# Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M Marine const | Project Name: MIA Boat show |
| DEP Permit #: | Project Location: Herald Plaza, MIA |
| USACE Permit#: | Work Location: Herald Plaza docks, MIA |
| USACE Contract#: | |
| Observer Name (and Company): Casey Wootton B&M Marine Construction | Observer Location: Herald Plaza docks, MIA |
| DATE: Feb 7, 2022 | Shift Start: 7:12 AM<br>Shift End: 3:22pm |
| Sunrise: 7:01 AM<br>Sunset: @ 12pm | If night time, type of equipment/lights used: / |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| Herald Plaza | 7:15 | AM | ✓ | Poor | minimal | Poor | [redacted] 3mph NW | 0% None | Fog 90% |
| Herald Plaza | 12:53 | PM | ✓- | Poor | minimal | Poor | 16mph SE | None | 30% |
| Herald Plaza | 2:56 | PM | ✓ | Decent | minimal | Poor | 12mph SE | None | 25% |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 7:12 | Pre scan for marine life |
| 8:27 | Begin Pile driving at American Airlines Arena, Boat traffic 2/10 |
| 9:32 | Moving spots in AAA waters, NO marine life spotted, boat traf 2/10 |
| 10:40 | Barge moving to material barge, boat traf 4/10 |
| 12:04 | [redacted] continuing Pile driving towards Arena, boat traf 3/10 |
| 12:49 | Barge on standby awaiting Pile placement |
| 1:53 | Barge continuing Pile driving near Arena, waters clear of marine life |
| 3:14 | Barge told to wrap up for day, getting ride back to shore |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| 1:26 | Stingray | 1 | 1 | 0 | 1500 +ft | traveling | NO | / | / | 1:26 |
| | | | | | | | | | | |
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| 1 | 1 | 1 | 0 | None | Stingray was 1500+ Ft away, traveling opposite direction, kept working |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

# Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M Marine Construction | Project Name: MIA Boat Show |
| DEP Permit #: | Project Location: Herald Plaza, MIA |
| USACE Permit#: | Work Location: Herald Plaza docks, MIA |
| USACE Contract#: | |
| Observer Name (and Company): Casey Wootton B&M marine construction | Observer Location: Herald Plaza DOCKS, MIA |
| DATE: Feb 8, 2022 | Shift Start: 7:29<br>Shift End: 2:12 |
| Sunrise: 7:01 AM<br>Sunset: 6:10 PM | If night time, type of equipment/lights used: / |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| MIA | | | | | | very poor | | | |
| Herald Plaza | 7:29 | Am | ✓- | Poor | min. .5 | [illegible] | 7mph NW | 20% None | Fog 80% |
| Herald Plaza | 12:03 | PM | ✓✓ | decent | minimal | decent | 9 mph ESE | 20% None | 20% |
| Herald Plaza | 2:02 | PM | ✓✓ | decent | minimal | decent | 10mph ↖ | 10% None | 25% |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 7:29 | Begin Pre-Scanning for marine life |
| 8:03 | Begin loading barge with Piles, boat traffic 2/10, Headed toward Area |
| 9:41 | Driving Piles near Area, waters clear |
| 10:33 | Barge filling up on gas near area, boat traffic 3/10 |
| 11:13 | Barge continuing pile driving near area |
| 1:27 | Barge headed to pull pile in middle section near plaza, drive Piles, near mat, barge CW |
| 2:08 | Barge headed to material barge to load up for tomorrow, [illegible] |
| | |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| 1:05 | Manatee | 1 | 1 | 0 | 300 ft | traveling | NO | / | / | 1:05pm |
| | | | | | | South | 300 ft | | | |
| | | | | | | bound | | | | |
| | | | | | | | | | | |
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| Manatee | 1 | 1 | 0 | None, obs | Manatee 300+ ft away headed |
| | | | | | other direction (S) |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

# Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M marine construction | Project Name: MIA Boat show |
| DEP Permit #: | Project Location: Herald Plaza, MIA |
| USACE Permit#: | Work Location: Herald plaza docks, MIA |
| USACE Contract#: | |
| Observer Name (and Company): casey wanton B&M marine construction | Observer Location: Herald Plaza docks, MIA |
| DATE: Feb 9, 2022 | Shift Start: 7:22<br>Shift End: 3:14 |
| Sunrise: 7:00 AM<br>Sunset: 6:10 PM | If night time, type of equipment/lights used: |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| Herald Plaza | 7:35 | AM | X | very poor | 1Ft | very poor | 5mph NNW | 90%, None | 80% |
| Herald Plaza | 10:47 | AM | X | very poor | 1Ft+ | very poor | 7mph NNW | 100%, yes | 90% |
| Herald Plaza | 3:11 | PM | J- | very poor | min. .5 | Poor | 6mph NNW | Passed | 70% |

MEANT

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 7:24 | Pre scan for marine life, boat traffic 0/10 |
| 7:56 | begin driving outside piles on N side near mat. barge, boat traffic 1/10 |
| 8:58 | moving to material barge to get longer piles |
| 10:49 | Barge inactive awaiting pile placement as rain persists, boat traffic minimal (10:55 Started |
| 11:24 | Barge fixing broken hose (inactive), Boat traffic 1/10 |
| 1:50 | barge fixed issue, driving piles near material barge (N), waters clear |
| 2:49 | Barge told to wrap up, headed to park on N side near mat. barge |
| | |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| 7:42 AM | Dolphin | 2 | 1 | 1 | 1000 ft | traveling (N) | No | / | / | 7:44 |
| | | | | | | | | | | |
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| Dolphin | 2 | 2 | 0 | None | inactive when dolphins spotted, No |
| | | | | | Shutdown needed. Dolphins |
| | | | | | headed North |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

# Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M Marine Construction | Project Name: MIA Boat Straw |
| DEP Permit #: | Project Location: Herald Plaza, MIA |
| USACE Permit#: | Work Location: Herald plaza, MIA |
| USACE Contract#: | |
| Observer Name (and Company): Casey Wootton B&M Marine Const. | Observer Location: Herald Plaza, MIA |
| DATE: Feb 10, 2022 | Shift Start: 7:45 AM<br>Shift End: |
| Sunrise: 6:59 AM<br>Sunset: | If night time, type of equipment/lights used: / |

**Weather and Visibility Information**

| Location MIA | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| Herald Plaza | 7:50 | AM | √ | decent | Normal | decent | 16mph N | None 10% | 0% |
| Herald Plaza | 11:05 | Am | √√ | Poor | minimal | Poor | 15mph NNE | None 0% | 5% |
| Herald Plaza | 2:00 | PM | √ | decent | minimal 5 | decent | 15mph NNE | None 0% | 15% |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 8:12 AM | Barge moving to material barge to load up, boat traffic 2/10 |
| 8:40 AM | Barge beginning pile driving in middle Section near Informa warehouse |
| 11:02 AM | continuing pile driving, waters clear, boat traffic 3/10 |
| 11:30 AM | Barge inactive working on tug boat |
| 12:19 PM | Barge resuming pile driving |
| 12:40 pm | Barge headed N to get more piles @ material barge, boat traffic 2/10 |
| 1:07 pm | Barge headed S to continue pile driving, boat traffic 3/10 |
| 1:38 pm | Shut down due to N bound manatee 1) boat traffic 6/10 |
| 2:30 PM | Barge driving final Pile for day and wrapping up, boat traffic 4/10 |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| 1:38 | Manatee | 1 | 1 | 0 | 15ft | moving N | yes | 1:38 | 2:30 | 1:38 |
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| Manatee | 1 | 0 | 1 | Shutdown | large adult headed N |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M Marine Construction | Project Name: MIA Boat Show |
| DEP Permit #: | Project Location: Herald Plaza, MIA |
| USACE Permit#: | Work Location: Herald plaza docks, MIA |
| USACE Contract#: | |
| Observer Name (and Company): Casey Wooten B&M marine construction | Observer Location: Herald plaza docks MIA |
| DATE: Feb 11, 2022 | Shift Start: 7:30<br>Shift End: 1:42 |
| Sunrise: 6:59<br>Sunset: 6:12 pm | If night time, type of equipment/lights used: |

**Weather and Visibility Information**

| Location MIA | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| Herald Plaza | 7:30 | AM | V | Poor | minimum | POOR | 9mphENE | 20% None | 10% |
| Herald Plaza | 12:05 | PM | V | Poor | Minimal | Poor | 6mph E | 30% None | 35% |
| Herald Plaza | | | | | | | | | |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 7:30 | Pre-scan for marine life, barge inactive, boat traffic 1/10 |
| 8:30 | Barge beginning startup, Waters clear of marine life, moving North |
| 9:23 | Barge inactive awaiting pile placement |
| 10:14 | Barge driving piles on N side near material barge |
| 11:42 | Barge moving to Mat. barge to reload with piles |
| 1:36 | Barge parking at material barge, packing up for day |
| | |
| | |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| NONE | Spotted | | | | Waters clear of marine life |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

# Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M marine construction | Project Name: MIA Boat Show |
| DEP Permit #: | Project Location: Herald Plaza, MIA |
| USACE Permit#: | Work Location: Herald Plaza docks, MIA |
| USACE Contract#: | |
| Observer Name (and Company): Casey Wootton B&M marine construction | Observer Location: Herald Plaza docks, MIA |
| DATE: Feb 12, 2020 | Shift Start: 7:35<br>Shift End: |
| Sunrise: 6:58 AM<br>Sunset: | If night time, type of equipment/lights used: / |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| Herald Plaza, MIA | 7:35 | Am | JJ | Ok ✓ | minimal | poor | 5 mph ENE | 20% None | 20 % |
| Herald Plaza, MIA | 11:04 | Am | JJ | decent | minimal | decent | 5 mph ENE | 20% None | 35 % |
| Herald Plaza, MIA | : | PM | JJ | decent | minimal | decent | mph | % | % |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 7:36 | Pre scan for marine life, barge inactive |
| 8:58 | begin loading up flawed piles from mat. barge, organizing by size |
| 11:06 | waters clear of marine life, Still at Mat. barge, boat traffic Ok |
| : | |
| : | |
| : | |
| : | |
| : | |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:09 | Dolphin | 5 | 5 | 0 | 10 ft | Heading S | yes | 8:09 | 8:58 | 8:09 |
| | | | | | | | | | | |
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| Dolphin | 5 | 0 | 5 | None | barge inactive, dolphins headed South |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

# Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M marine Const | Project Name: MIAMI BOAT Show Cleanup |
| DEP Permit #: | Project Location: Herald Plaza, MIA |
| USACE Permit#: | Work Location: Herald plaza docks, MIA |
| USACE Contract#: | |
| Observer Name (and Company): Casey Woonton B&M Marine Const | Observer Location: Herald Plaza docks |
| DATE: Feb 21, 2020 | Shift Start: 8:00 AM<br>Shift End: |
| Sunrise: 6:51 AM<br>Sunset: | If night time, type of equipment/lights used: / |

**Weather and Visibility Information**

| Location MIA | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| Herald Plaza | 8:00 | AM | VV | Poor | ½ ft | Poor | 13 mph E/NE | 10%, None | 40% |
| Herald Plaza | 10:00 | Am | VV | Poor | ½ ft | Poor | 12 mph ENE | 20%, None | 50% |
| Herald Plaza | 3:06 | PM | VV | Poor | ½ ft | Poor | 14mph ENE | 10% None | 50% |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 8:00 | Barge removing piles near mat. barge boat traf 3/10 |
| 10:09 | Barge moved South to continue pulling piles boat traffic 6/10 |
| 1:07 | Barge continuing pile pulling, headed N to mat barge to unload soon BT 4/10 |
| 1:45 | Barge inactive, taking lunch |
| 3:00 | Barge still inactive, repairing barge utilities |
| | |
| | |
| | |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| | | | | | No marine life Spotted |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CM

# Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M Marine Construction | Project Name: MIA Boat Show |
| DEP Permit #: | Project Location: Herald Plaza, MIA |
| USACE Permit#: | Work Location: Herald Plaza, MIA |
| USACE Contract#: | |
| Observer Name (and Company): Cocoa Beach Marine Construction | Observer Location: Herald Plaza, MIA |
| DATE: Feb 22, 2022 | Shift Start: 7:19<br>Shift End: 3:19 |
| Sunrise: 6:50 AM<br>Sunset: | If night time, type of equipment/lights used: |

| **Weather and Visibility Information** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
| | 7:19 | AM | √ | | | Poor | Variable | 0" none | 40% |
| | 12:19 | PM | √ | | | Poor | 12 mph E | 0" none | 40% |
| | 3:19 | PM | √ | | | Very poor | 15 mph E | 0" none | 40% |

| **Observer Logs** | |
|---|---|
| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
| 7:19 | On site, set up equipment, barge tracking |
| | Barge loaded South to Florida Keeling pier area |
| | Barge headed North to material barge to unload |
| | Barge tracking back |
| | Barge loaded South to Florida Keeling pier Hauled 710 |
| | headed South to pull pins |
| 3:19 | Equipment secure, wrapping up for day |
| | |

| **Sighting Log** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
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| **Daily Summary** | | | | | |
|---|---|---|---|---|---|
| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
| | | | | | |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature _____

Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: [illegible] Marine Construction | Project Name: MLA Boat Ramp |
| DEP Permit #: | Project Location: Herald Plaza, MLA |
| USACE Permit#: | Work Location: Herald Plaza, MLA |
| USACE Contract#: | |
| Observer Name (and Company): | Observer Location: |
| DATE: Feb 23, 2022 | Shift Start: 7:22<br>Shift End: |
| Sunrise: 6:49 AM<br>Sunset: | If night time, type of equipment/lights used: / |

| **Weather and Visibility Information** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
| H. Plaza | 7:25 | | | | | | | | |
| ~~[illegible]~~ | ~~[illegible]~~ | AM | JJ | POOR | minimal | very poor | 15mph E | 0% rain | |
| H. Plaza | | | | | | | | | |
| | | | | | | | | | |

| **Observer Logs** | |
|---|---|
| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
| 7:22 | Began Scanning for marine life, barge inactive |
| 7:35 | Barge beginning operations, boat traffic 2/10 |
| 9:49 | Barge moving N to unload, traffic 3/10 |
| 11:22 | Barge moving S towards Arena, traffic 5/10 |
| 12:04 | Barge inactive taking lunch, traffic 3/10 |
| 12:53 | Barge beginning pulling piles |
| 2:04 | Barge unloading at material barge |
| | |

| **Sighting Log** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
| / | / | / | / | / | / | / | / | / | / | / |
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| **Daily Summary** | | | | | |
|---|---|---|---|---|---|
| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
| / | | | | | [illegible] spotted |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature [signature]

Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: | Project Name: |
| DEP Permit #: | Project Location: |
| USACE Permit#:<br>USACE Contract#: | Work Location: |
| Observer Name (and Company): | Observer Location: |
| DATE: | Shift Start:<br>Shift End: |
| Sunrise:<br>Sunset: | If night time, type of equipment/lights used: |

| **Weather and Visibility Information** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
| | | | | | | | | | |
| | | | | | | | | | |
| H Plaza, MIA | 2:08 | PM | JJ | decent | minimal | decent | | | |

| **Observer Logs** | |
|---|---|
| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
| | |
| | |
| | |
| 10:52 | |
| | |
| | |
| 2:47 | barge needed to material barge to unload |
| | |

| **Sighting Log** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
| | | | | | | | | | | |
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| **Daily Summary** | | | | | |
|---|---|---|---|---|---|
| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
| | | | | | No marine life spotted |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature _____

Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: B&M Marine Contracting | Project Name: MIA BOAT Show |
| DEP Permit #: | Project Location: Hero Plaza, MIA |
| USACE Permit#: | Work Location: Hero Plaza, MIA |
| USACE Contract#: | |
| Observer Name (and Company): [illegible] Fairy Woods | Observer Location: Hero Plaza, MIA |
| DATE: Feb 25, 2022 | Shift Start: 7:25<br>Shift End: |
| Sunrise: 6:47am<br>Sunset: | If night time, type of equipment/lights used: |

| **Weather and Visibility Information** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
| 7 pilings | 7:01 | AM | V/- | good | minimal | decent | 9mph E | 0% none | 15 |
| ↑ | 12:01 | PM | √√ | decent | minimal | decent | 11mph E | 0% none | 35 |
| ↑ | 2:57 | PM | √√ | decent | minimal | decent | 8mph ESE | 0% none | 40 |

| **Observer Logs** | |
|---|---|
| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
| | |
| 7:25 | Barge beginning pulling pives, Boat traffic 2/10 |
| 10:07 | Barge Uploading at material barge Boat traffic 4/10 |
| 11:03 | Barge continuing pulling piles new material barge, boat traffic 6/10 |
| 11:57 | Barge inactive taking lunch |
| 12:32 | Barge continuing pulling piles |
| 2:49 | Barge headed |
| | |

| **Sighting Log** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
| 7:01 | Dolphin | 1 | 1 | 0 | 50ft | driving | yes/ early | [illegible] | [illegible] | 7:10 |
| | | | | | | | | | | |
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| **Daily Summary** | | | | | |
|---|---|---|---|---|---|
| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
| | | | | | |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature _____

Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: | Project Name: MIA Boat Show |
| DEP Permit #: | Project Location: |
| USACE Permit#: | Work Location: |
| USACE Contract#: | |
| Observer Name (and Company): Casey Wemter B&M marine const | Observer Location: |
| DATE: Feb 26 2022 | Shift Start: 7:11 Am<br>Shift End: 3:31 |
| Sunrise:<br>Sunset: | If night time, type of equipment/lights used: / |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| H. Plaza, MIA | 7:10 | Am | J/- | Poor | none | Poor | 7mph E | | 30 |
| ↑ | 12:08 | PM | JJ | Poor | none | Poor | 13mph E | | 25 |
| | 3PM | PM | JJ | Poor | none | Poor | 10mphE | | 40 |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 7:11 Am | Began pre Scanning for marine life |
| 7:24 Am | Barge beginning pulling piles Boat traffic 2/10 |
| 9:20 Am | Barge headed to ant. barge to unload |
| 10:24 Am | Barge headed S to continue pulling piles |
| 11:55 Am | Barge machine taking lunch, boat traffic 7/10 |
| 12:49 pm | Barge Continuing pulling piles Boat traffic 7/10 |
| 3:21 pm | Barge Headed inland to park for day |
| | |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| / | | | / | / | / | / | / | / | / | / |
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| / | / | / | / | / | No marine life spotted |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: | Project Name: MIA BOAT SHOW |
| DEP Permit #: | Project Location: |
| USACE Permit#: | Work Location: |
| USACE Contract#: | |
| Observer Name (and Company): B&A Marine Consh | Observer Location: |
| DATE: Feb 27 | Shift Start: 7:01<br>Shift End: |
| Sunrise:<br>Sunset: | If night time, type of equipment/lights used: / |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| H. Pm 2a | 7:03 | AM | V/- | decent | None | decent | 8mph ESE | 30% none | 40 |
| ↑ | 12:23 | PM | VV | Poor | minimal | Poor | 11MPH SE | 20% None | 25 |
| ↑ | 3:07 | PM | VV | decent | minimal | decent | 8 mph S | 40% none | 35 |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 7:02 AM | Begin pre-Scanning for marine life |
| 7:13 AM | Barge inactive, visibly manatees to travel further S, boat traffic 4/10 |
| 7:39 AM | Barge beginning [redacted] pulling piles, no manatee sighted, traffic 3/10 |
| 10:07 AM | Barge headed N to unload, Boat traffic 7/10 |
| 11:58 PM | Barge inactive taking lunch, Boat traffic 8/10 |
| 12:43 pm | Barge headed S to pull piles, Boat traffic 9/10 |
| 2:11 PM | Manatee sighted, barge inactive |
| | |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| 7:13 Am | Manatee | 3 | 3 | 0 | 50 ft | traveling S | inactive | inactive | 7:39 | 7:14 |
| 2:10 pm | Manatee | 2 | 1 | 1 | 25 ft | traveling N | yes | 2:10 | / | 2:27 |
| | | | | | | | | | | |
| | | | | | | | | | | |
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**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| Manatee | 5 | 0 | 5 | Inactive/shut down | First two inactive, second two shut down |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| **Project Information** | |
|---|---|
| Contractor: | Project Name: MIA BOAT SHOW |
| DEP Permit #: | Project Location: |
| USACE Permit#: | Work Location: |
| USACE Contract#: | |
| Observer Name (and Company): Casey W [illegible] | Observer Location: |
| DATE: FEB 28 | Shift Start: 7:03 AM<br>Shift End: |
| Sunrise: 6:45 AM<br>Sunset: | If night time, type of equipment/lights used: / |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| Miami, FL | 7:25 | AM | ✓ | decent | None | decent | 7mph W | 10% rain | 75% |
| ↑ | | | | | | | | | |
| | | | | | | | | | |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 7:03 | begin pre scanning for marine life, boat traffic 2/10 |
| 7:46 | manatee spotted headed N, barge inactive, traffic 1/10 |
| 8:03 | WATER CLEAR, BARGE ACTIVE |
| 9:51 | BARGE HEADED N TO Island, BT 4/10 |
| 13:43 | BARGE HEADED S TO Continue Pulling Piles 4/10 |
| 11:16 | BARGE inactive, HOSE piece broke 4/10 |
| 2:03 | BARGE continuing pulling piles, Traffic 3/10 |
| 335 | BARGE inactive wrapping up for day |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| 7:46 | manatee | 1 | 1 | | 50ft | inactive | inactive | - | - | - |
| | | | | | | | | | | |
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| | | | | | | | | | | |

**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| MANATEE | 1 | ✓ | 1 | inactive | MANATEE HEADED South Slowly |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

Florida Fish and Wildlife Conservation Commission Example Daily Observer Log Sheet

| Project Information | |
|---|---|
| Contractor: B&M Marine Const. | Project Name: MIA BOAT SHOW |
| DEP Permit #: | Project Location: HERALD PLAZA |
| USACE Permit#: | Work Location: HERALD PLAZA |
| USACE Contract#: | |
| Observer Name (and Company): CASEY WOONTON B&M | Observer Location: HERALD PLAZA |
| DATE: MARCH 1 2022 | Shift Start: 6:58<br>Shift End: |
| Sunrise: 6:44AM<br>Sunset: | If night time, type of equipment/lights used: — |

**Weather and Visibility Information**

| Location | Time | Day or Night | Glare | Water Clarity | Seas (wave height) | Visibility | Wind Speed and Direction | Precipitation | Estimated % cloud cover |
|---|---|---|---|---|---|---|---|---|---|
| H. Plaza | 7:01 | AM | — | Good | Good | Good | 7MPH NNW | 20% rain | 90% |
| | | | | | | | | | |
| | | | | | | | | | |

**Observer Logs**

| Time | Notes: (i.e., start and stop times for vessels and dredging activities, shift changes, notable boat traffic, etc.) |
|---|---|
| 6:58 | Pre-Scan for Marine life, boat traffic 1/10 |
| | |
| | |
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| | |
| | |

**Sighting Log**

| Time | Species | Total Number | Adults | Juveniles | Closest distance to vessel | Activity or behavior | Shut down? (yes/no) | Time of Shutdown | Time of Start Up | Time last seen |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
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| | | | | | | | | | | |

**Daily Summary**

| Species | Total Number | Total Number outside 50 feet | Total Number inside 50 feet | Action Taken | Comments |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |

Daily logs should be recorded for each day, even if work has temporarily ceased. The logs should note "no operation" and an explanation given (such as weather, broken equipment, etc.). This will assist with writing the end of project summary report.

Observer Signature CW

## Manatee Log 20-Feb

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| L. FERNANDEZ | Sea Isle (Olympic 4+5) | 1 | Feeding | NONE | Sea Trials temporarily suspended for 5 ips near vessel for 30 min → until manatee did not reappear. |

MDC342

## Manatee Log 20-Feb

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| K. Cathey | FEC Slip | 1 | Resting @ Surface | 4 prop-type scars<br>open tissue wound (no blood) | |

- Observed from ~ 2 50 pm - 330pm. Found floating and not swimming. Confirmed breathing.
- per drone operator Felipe, manatee first spotted inside Slip ~ 11:30am and floating idle most of day
- Did not see again. FWC vessel arrived ~ 350pm. and departed ~ 4pm. Manatee not found.
- per drone operator Felipe, manatee observed outside Slip wavebreak ~ 420-4

MDC343

Manatee Log 20-Feb ( Boat)

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| Michelle Metcalf | Seadale marina | n/a | n/a | n/a | n/a |

MDC344

**Manatee Log** **19-Feb**

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| L. FERNANDEZ | Sea Isle (pier 1) | 1 | Feeding/Resting | — | Sea Trial Vessels were temporarily suspended - First two slips (west to east), manatee left marina headed north |
| L. FERNANDEZ | Sea Isle (pier 4+5) | 1 | Feeding/Resting | — | Sea Trial vessels were temporarily suspended for piers 4+5. Allowed vessels to enter marina + leave ON a slip by slip basis. |
| L. FERNANDEZ | Sea Isle (pier 1) | 1 | FEEDING/Resting | — | Sea Trial vessels temporarily suspended - First two slips (west to east), manatee was observed headed north out of marina |

MDC345

## Manatee Log 19-Feb

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| Michelle Metcalf | FECSlip | NA | N/A | N/A | N/A |
| Michelle Metcalf | Miamiherald Plaza | N/A | N/A | N/A | N/A |

MDC346

**Manatee Log** **18-Feb**

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| L. FERNANDEZ | Sea Isle (AREA 5) | 1 | FEEDING | SCAR ON back/tail. | Sea Trials temporarily suspended at 10:00 am |

THE ABOVE MANATEE WAS SPOTTED THROUGHOUT THE DAY WITHIN SEA ISLE MARINA FEEDING / RESTING / SWIMMING B/W 10:00 - GROUP APPROXIMATELY. SEEN at PIERS 5 originally then PIERS 3 & 4 then 1 & 2.

MDC3477

## Manatee Log 18-Feb

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| K. Cathey | Sea Isle | 1 | Resting / Feeding | None | Betw P.1 - P.2 in MPA. Halted vessels in slips 123-124 @ times observed from ~ 12pm - 230pm |
| K. Cathey | Sea Isle | 1 | Swimming | none visible | Swam into NW end of marina w/. above manatee saw ~ 12:40pm |
| K. Cathey | Sea Isle | 1 | Resting/Feeding | Damaged Tail (left side) | At T-head of P.4 halted Trials along P.3, P.4, + P5 @ times observed ~ 3pm - 4pm after which it swam further into marina and I did not see again. |

MDC348

## Manatee Log 18-Feb

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| Michelle Metcalf | FEC | n/A | n/A | n/A | n/A |
| Michelle Metcalf | Herald | n/A | n/A | n/A | n/A |
| Michelle Metcalf | Sea to Sea Marine | n/A | n/A | n/A | n/A |

MDC349

## Manatee Log 17-Feb

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| L. FERNANDEZ | Sea Isle (NORTHEND) B/W PIER 1+2 | (2) | RESTING | NONE | MANATEES REMAINED IN SAME LOCATION FOR APPROX 1.5 HRS. |
| L. FERNANDEZ | Sea Isle (NORTHERN) B/W PIER 1+2 | (2/1CALF) | SWIMMING | NONE | MANATEES OBSERVED SWIMMING NORTH OUTSIDE MARINA LIMITS |
| L. FERNANDEZ | Sea Isle (ENTRANCE OF MARINA) | (1) | SWIMMING | NONE | MANATEE OBSERVED RESTING FOR A SHORT PERIOD OF TIME AND THEN PROCEEDED TO SWIM SOUTH. "SPOTTED BY DRONE PILOT ORIGINALLY |
| DRONE PILOT | SEA ISLE (PIER 5) | (1) | — | — | MANATEE WAS OBSERVED ON THE INSIDE OF PIER 5 BY DRONE PILOT |
| DRONE PILOT | VENETIAN CSWY | (1) | — | — | MANATEE WAS OBSERVED NEAR VENETIAN CSWY. |
| DRONE PILOT + DERM STAFF (TB/JL) | FEC SLIP | (1) | SWIMMING FEEDING | SCAR ON RIGHT SIDE SMALL SCARS ON HEAD NICK OF FIN MISSING | MANATEE OBSERVED INSIDE FEC SLIP FOR SEVERAL HOURS |

MDC350

## Manatee Log 17-Feb

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| JL/TB | FEC by manatee monitoring tent | 1 | swimming/feeding | scar on right side small scar on head piece of fin missing | stayed at FEC from 10:30 am until end of snow |

MDC351

**Manatee Log** **17-Feb**

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| K. Cathey | FEC Slip | 1 / none | Resting / Swimming | yes (3 on back left, near tail) | |

Observed throughout afternoon at NE end of notch (Landward end)

Manatee drone operator was aware and watching.

Water Taxi Staff advised.

MDC352

**Manatee Log** **16-Feb**

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| Luis FERNANDEZ | Sea Isle | NONE | | | |

Manatee Sightings observed by others (other than DFRM staff)

| | | | | | |
|---|---|---|---|---|---|
| DRONE observer | Sea Isle | 1 | | | |

MDC353

**Manatee Log** **16-Feb**

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| K. Cathey | Herald | 1 / NO | Swimming | None seen | None |

MDC354

**Manatee Log** **16-Feb**

| Observer | Location | Number Present/Calf | Behavior (Swimming, Feeding, Resting, etc.) | Features (Scars, Tags, etc.) | Notes |
|---|---|---|---|---|---|
| Michelle Metcalf | FEC Slip | N/A | N/A | N/A | N/A |
| Michelle Metcalf | Herald | n/A | n/A | n/A | n/A |

MDC355

March 28, 2022

Mr. Luis Fernandez
Miami-Dade County Regulatory
and Economic Resources
701 NW 1st Court, 6th Floor
Miami, Florida 33136

**RE: Miami Yacht Show**
**File No. CLI-2018-0071**
**TCG Project No. 09-0039.002**

Dear Mr. Fernandez:

On Wednesday February 16, 2022, a total of approximately three (3) manatees were observed swimming around the times of 10-11am and between 3-4pm. On Thursday February 17, 2022, approximately twenty-two (22) manatees were observed throughout the day from 10am-6pm. The majority of the manatees were observed to be swimming and surfacing near piers 1 and 2. Two pairs of an adult and calf were also observed. On Friday February 19, 2022, approximately twenty-nine (29) manatees were observed throughout the day from 10am – 5pm.The manatees observed ranged from 6-10' in length and were observed feeding, resting, swimming, and diving. A few of the manatees also appeared to have scars on their bodies. On Saturday February 19, 2022, approximately forty-two (42) manatees were observed throughout the day from 8am-4pm.The manatees appeared to be 5-10' in length and were also observed feeding, resting, swimming, diving, and surfacing. On Sunday, February 20, 2022, approximately eighteen (18) manatees were observed. They averaged approximately 7-8' in length and the majority of them appeared to be swimming. A few manatees were also observed foraging and surfacing. Please see the summary tables of manatees observed for each day.

**Wednesday 2/16/2022**

| Observer | Time | Description | Activity |
|---|---|---|---|
| | 10:00-11:00 | alive, 6-8' | traveling in dock |
| on dock | 11:00-12:00 | 8', alive, behind shop | traveling north |
| on water taxi | 3:00-4:00 | alive, medium, off of sea isle | swimming towards pier 6 |

## Thursday 2/17/2022

| Observer | Time | Description | Activity |
|---|---|---|---|
| on dock | 10:00-11:00 | 1 manatee between pier 3 & 4, close to dock | surfaced for air |
| on dock | 10:00-11:00 | 1 manatee in marina, injured, 10' | resting/swimming |
| | 11:00-12:00 | 1 manatee, 6-8', between pier 1 & 2 | coming up for air |
| on dock | 11:00-12:00 | 1 adult - north of pier 1, 2 adults north of pier 2 | feeding, stationary |
| on dock | 11:00-12:00 | 2 manatees near pier 1 & 2 | resting |
| on dock | 12:00-1:00 | 4 manatees, 6-8', stationary | coming up for air |
| on dock | 12:00-1:00 | mother & calf, under pier 1 | swimming, grazing |
| on dock | 12:00-1:00 | 1 adult and 1 calf, left of pier 1 | swimming |
| on dock | 1:00-2:00 | 2 of previously observed manatees | surfacing less frequently |
| on dock | 1:00-2:00 | 1 adult - pier 1 &2 | swimming quickly south |
| sea trial | 4:00-5:00 | 1 manatee near entrance of marina | |
| on water taxi | 5:00-6:00 | 1 manatee, near stop at sea isle | |
| drone | 5:00-6:00 | 1 manatee end of pier 1 | |

## Friday 2/18/2022

| Observer | Time | Description | Activity |
|---|---|---|---|
| | 10:00-11:00 | 1 manatee, large, near dock, 3 boat marks, 9-10' | feeding |
| Camryn Raposo | 10:00-11:00 | 1 manatee, 8-9', under docks, ramp 7, scar on body | resting/swimming |
| on pier | 10:00-11:00 | 6-8', scrap on lower back, white spot on tail, near dock 5 | feeding towards ramp 4-5 |
| on dock | 10:00-11:00 | 1 manatee, scar on back, 9-10' | moving slow under dock |
| on dock | 10:00-11:00 | 1 manatee, injured, 6-8', pier 1-3 | swimming |
| | 10:00-11:00 | 1 manatee near pier 5 entrance | |
| on dock | 10:00-11:00 | 1 manatee, left of pier 5, 9-10' | eating |
| Camryn Raposo | 11:00-12:00 | 1 manatee, 8-9', alive, scar on body | resting |
| on pier | 11:00-12:00 | 6-8', scrap on lower back, white spot on tail, between ramps 2&3 | feeding near pier 1 |
| on dock | 11:00-12:00 | 1 manatee, alive near end of pier 1 | |
| on dock | 11:00-12:00 | 1 manatee, near pier 1 | swimming/resting |
| | 11:00-12:00 | 2 manatees, 6-8'/9-10', between decks 2&3 | swimming |
| on dock | 11:00-12:00 | 1 manatee | swimming |
| | 12:00-1:00 | 1 manatee, moved to dock 1 | |
| on dock | 12:00-1:00 | 2 manatees, 6'/7-8', near pier 1 | 1 stationary, 1 moved out of dock area |
| on dock | 12:00-1:00 | 1 manatee | swimming/resting |
| | 12:00-1:00 | 1 manatee, alive, 6-8' between decks 1&2 | swimming, moving east |
| Camryn Raposo | 1:00-2:00 | 1 manatee, 8-9', alive, scar on body | resting |
| on dock | 1:00-2:00 | 1 manatee, 7-8', pier 1-5 | |
| | 2:00-3:00 | 1 manatee, end of dock 4 | feeding/diving |
| on dock | 2:00-3:00 | 1 manatee, from pier 1 to pier 2&3 | swimming |
| on dock | 2:00-3:00 | 1 manatee, injured, 10', pier 4, injured tail | eating |
| on dock | 2:00-3:00 | 2 manatees, between 4&5, end of dock 4 | swimming towards dock 5, eating |
| Camryn Raposo | 3:00-4:00 | 1 manatee, alive, 9-10', gash in tail | eating |
| on dock | 3:00-4:00 | 1 manatee, end of pier 4, 9-10', alive, part of fluke missing | feeding/resting |
| on dock | 3:00-4:00 | 1 manatee under yamaha pier 4, moved between 4&5 | resting |
| on taxi | 4:00-5:00 | giant swirl to left of dock landing - museum park marina | feeding/resting |

## Saturday 2/19/2022

| Observer | Time | Description | Activity |
|---|---|---|---|
| on dock | 8:00-10:00 | 1 manatee, off pier 1 close to seawall | eating |
| | 8:00-9:00 | 1 manatee, 6-8', swimming north toward pier 1 | swimming |
| | 9:00-10:00 | 1 manatee, 9-10', under stairway docks 1&2 | swimming |
| on dock | 10:00-11:00 | 1 manatee | swimming |
| on dock | 10:00-11:00 | pier 1, 1 manatee | eating |
| on dock | 10:00-11:00 | 1 manatee, scar dorsal side, near dock 1 | staying near dock |
| Camryn Raposo | 10:00-11:00 | 1 manatee, 9-10' | resting |
| on dock | 11:00-12:00 | 1 manatee | |
| on dock | 11:00-12:00 | pier 1 - NE side, 1 manatee | breach |
| on taxi | 11:00-12:00 | 1 manatee, 6-8', heading north under bridge | alive, resting |
| Alexis Hilber, on taxi | 11:00-12:00 | 1 manatee, west channel under bridge between Harold & Museum Plaza | diving |
| on taxi | 11:00-12:00 | 1 manatee, middle of McArthur bridge, 5-6' | resting |
| on dock | 11:00-12:00 | 1 manatee, east side dock 1 | breaching |
| on dock | 12:00-1:00 | 1 manatee | |
| Andrew Kuntz, on dock | 12:00-1:00 | 1 manatee, 7', south side of pier 1 | cruising |
| on dock | 1:00-2:00 | under pier 4, 1 manatee | eating |
| | 1:00-2:00 | 1 adult, between pier 4&5 | surfacing |
| | 1:00-2:00 | 1 manatee, herald marina, notches out of tail | diving |
| on dock | 1:00-2:00 | 1 manatee, near seawall between 4&5 | resting |
| Duong Dinh, on dock | 1:00-2:00 | 1 manatee, pier 2 | swimming |
| Mykenzee, on dock | 1:00-2:00 | 1 manatee, between pier 4&5, 7-8' | foraging |
| Camryn Raposo | 1:00-2:00 | 2 manatees, 10', near 4&5 | swimming |
| on dock | 1:00-2:00 | 1 manatee, pier 4&5, 6' | resting/eating |
| on dock | 1:00-2:00 | 1 manatee, piers 4&5 | rolling, up and down |
| | 2:00-3:00 | 1 adult, against pier 4 | surfacing |
| on dock | 2:00-3:00 | 1 manatee, near seawall between 2&3 | resting |
| on dock | 2:00-3:00 | 1 manatee, 6-8', dock 2&3 | diving, swimming |
| Duong Dinh, on dock | 2:00-3:00 | 1 manatee, between pier 1&2 | breathing/resting |
| on taxi | 2:00-3:00 | 1 manatee, between pier 1&2 | popping up |
| Mykenzee, on dock | 2:00-3:00 | 1 manatee, between pier 2&3 | moving north |
| Camryn Raposo | 2:00-3:00 | 1 manatee, 10', between docks 4&5 | searching for food |
| on dock | 2:00-3:00 | 1 manatee, piers 2&3 | eating |
| on dock | 2:00-3:00 | 1 manatee, pier 4&5, 6' | surfacing |

| Observer | Time | Description | Activity |
|---|---|---|---|
| on dock | 3:00-4:00 | 1 manatee, 6-8', dock 1&2 | surfacing |
| Alexis Hilber, on dock | 3:00-4:00 | 1 manatee, pier 1, near slip 124 | bobbing up and down |
| Duong Dinh, on dock | 3:00-4:00 | 1 manatee, note on the back | |
| Mykenzee, on dock | 3:00-4:00 | 1 manatee, between pier 2&3 | foraging |
| Camryn Raposo | 3:00-4:00 | 2 manatees, 8-10'/5-6', near piers 3&4 | grazing |
| on dock | 3:00-4:00 | 1 manatee, between docks 1&2 | feeding/swimming |
| on dock | 3:00-4:00 | 1 manatee, pier 1, 6-8' | resting/surfacing |

## Sunday 2/20/2022

| Observer | Time | Description | Activity |
|---|---|---|---|
| | 9:00-10:00 | 1 manatee, between pier 4&5, large scarred adult | foraging |
| | 9:00-10:00 | 1 manatee, 7-8' | swimming, grazing |
| | 9:00-10:00 | 1 manatee, 8' | swimming |
| Kirsten Coleman | 9:00-10:00 | 1 manatee, near pier 5, scars on back | resting |
| on dock | 9:00-10:00 | 1 manatee, pier 5, medium size | swimming |
| Eli | 1:00-2:00 | 1 manatee near marina entrance | swimming |
| Kirsten Coleman | 1:00-2:00 | 1 manatee, pier 1 | swimming |
| Duong Dinh, on dock | 1:00-2:00 | 1 manatee, north side of pier 1 | swimming |
| | 10:00-11:00 | 1 manatee, under pier 3, close to seawall, 9-10' | swimming |
| Jason R, on dock | 10:00-11:00 | 1 manatee, pier 5, scars on back | swimming |
| on dock | 10:00-11:00 | 2 manatees, pier 5, 8'/8', propellar scars | swimming |
| Eli | 10:00-11:00 | 1 manatee, pier 5, medium size | surfacing |
| | 2:00-3:00 | 2 manatees, along seawall of Museum Park | grazing/foraging |
| sea trial, slip 321 | 2:00-3:00 | 1 manatee, north side of ICW, 7-8' | swimming |
| Jason R, on dock | 3:00-4:00 | 1 manatee, pier 1, large, north of marina | surfacing |
| Duong Dinh, on dock | 9:00-10:00pm | 1 manatee, north of pier 2-3 | |

If you have any further questions or comments, please feel free to contact my office at (954) 782-1908 or via email at jena@thechappellgroup.com.

Sincerely,

**THE CHAPPELL GROUP, INC.**

Jena Robbins

Jena Robbins
Senior Project Biologist

# Manatee Observation Report

# Miami International Boat Show

# February 16 - 20, 2022




**Amy C. Hirons, PhD**

**Charismatic Megafauna and Oceanography Lab**

**Nova Southeastern University**


**April 2022**

**PREPARED FOR:**

**INFORMA**

**1650 SE 17TH ST**

**FORT LAUDERDALE, FL 33316**

MDC362

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## I. Statement of Purpose

In February 2022 Informa operated the sea trial component of the in-water boat show (hereafter known as MIBS – Miami International Boat Show) from the Sea Isle Marina at 1635 N Bayshore Drive, Miami. To reduce potential manatee impacts related to the boat show's sea trial activities, dedicated Manatee Observers were deployed during all five days of the show during show hours on board all sea trial vessels, Water Taxi transport vessels, and piers at the marina (fixed and temporary). Sea trial vessels <35 feet could have the boat captain act as manatee observer and vessels 35 ft and greater could also have a designated crew member act as a manatee spotter. All Manatee Observers, either dedicated observers or those acting on behalf of a vessel, were equipped with polarized glasses and manatee logs to record any sightings. Observers informed captains of any manatees within 50' of the vessel to prevent impact or harm to manatees. Manatee Observers reported sightings and those were relayed to relevant individuals via radio and bull horn to control boat traffic in Sea Isle Marine. No interactions with manatees were reported during the entire MIBS pre-, during, and post-show.

## II. Florida Manatee

A. Manatee Background

Four species of manatee exist globally but the species found within Florida waters is a subspecies of the West Indian manatee, commonly called the Florida manatee (*Trichechus manatus latirostris*) A manatee is a large, slow-moving marine mammal. Manatees are endothermic ("warm-blooded"), nurse their calves with milk, and are required to breathe air. A manatee will normally surface every three to five minutes when active but they can hold their breaths for up to 20 minutes when resting. Adult Florida manatees can reach 9 to 10 feet (3 m) in length and weigh around 1,100 pounds (500 kg). Their distinct tail is wide and paddle-shaped and is used to propel them through the water at average speeds of 5 miles/hour (8 kph), though they can reach speeds of 19 mph (~30 kph). Besides their paddle-shaped tail, manatees also have two pectoral flippers used for steering and manipulating food to their mouth. Adult manatees can vary between a gray and brown color while calves are usually a darker gray. Their skin is thick and rough with wrinkles and sparse hairs which provide sensory information about their surrounding environment. The main sensory information about their environment is provided through their facial whiskers. Whiskers (vibrissae) are stiff, bristle-like hairs that are found along a manatee's prehensile lips and snout. The eyes of a manatee are very small and set towards the lateral sides of the manatee's head. Manatee vision is not sharp, but they can detect both dim and bright light as well as distinguish colors, shapes, and patterns. There are no external ears (pinna) on a manatee, and they only possess diminutive auditory openings behind their eyes. Even with these tiny ear openings, manatees can hear quite well and can localize sound.

B. Habitat

While residing predominantly in Florida coastal margin waters, the Florida manatee can range north along the Atlantic coast as far as Massachusetts and westward along the Gulf of Mexico coastline as far as Texas. Florida manatees are indigenous to the shallow, coastal waters

around central and south Florida. They are found in rivers, estuaries, and bays; hence, they can tolerate limited fresh, brackish, and salt water. Manatees are most often found in shallow, coastal waters as they forage and eat plants that grow along the sea bottom. Possessing an extremely low metabolic rate and no thick layer of fat (blubber) for body insulation, manatees are limited to warm waters to help maintain their body temperature. Temperatures below 68°F (20°C) increase the risk of cold-induced stress for the endothermic manatees. This temperature requirement leads manatees to congregate in shallow, coastal waters during the winter months, and oftentimes near artificial heat sources such as water-cooled power plants along the coast.

C. Diet

Manatees are aquatic herbivores that feed on more than 60 different species of aquatic plants found in both fresh- and saltwater. This makes them a generalist feeder. The staple of a manatee's diet, though, is seagrass. But while consuming seagrass, the manatee is also consuming epiphytic organisms and small invertebrates residing on the seagrasses, Typically, a manatee will graze for five or more hours a day and will attempt to consume anywhere from 4% to 10% of their body weight in wet vegetation per day.

D. Natural and Anthropogenic Impacts

West Indian manatees may live more than 50 years. However, manatee mortality can be attributed to a variety of natural causes such as cold stress, toxic algal blooms, and diseases. Additionally, human-related causes include watercraft collision, canal locks and flood control structures, ingestion of foreign objects, and entanglement. Loss of habitat and food resources and toxic algal blooms are also increasing causes. Undetermined causes of death are listed for carcasses too decomposed to assess.

As manatees reside in shallow water to feed and rest, boat traffic can also represent a potential impact to manatee safety. The deaths related to boats are often from propeller cuts and impacts from the hull or lower unit of the motor. Manatees have the ability to hear a boat, but they often do not have enough time to move away from an approaching boat. Their reaction to an approaching boat is to move towards deeper waters and to increase speed but as they are normally in shallow waters, this reduces the routes of escape. They are dependent on boats moving at slow speeds to avoid vessel impacts Loss of warm water habitat is attributed to coastal development and pollution has contributed to the destruction of seagrass beds. Manatees have high site fidelity leading them to frequently return to the same wintering locations. If those locations have changed over the course of a year, a manatee might struggle with cold-stress and lack of food.

E. Federal and State Regulation

The Florida Fish and Wildlife Conservation Commission (FWC) and the US Fish and Wildlife Service (USFWS) have state and federal jurisdiction, respectively, over the management and protection of the threatened, not endangered, Florida manatee. Due to its increasing population size of over 7000 individuals, the species was delisted as endangered in 2017. The Endangered Species Act of 1973 established policies and procedures for identifying,

listing, and protecting species of wildlife that are endangered or threatened with extinction. Endangered means “any species which is in danger of extinction throughout all or a significant portion of its range”. The Florida manatee is also protected under the Marine Mammal Protection Act (MMPA) of 1972. The primary objective of the act is obtaining and maintaining optimum sustainable populations of marine mammals. The MMPA includes a moratorium on the taking of marine mammals that include killing, capturing, hunting, harassing, attempting to kill, capture, hunt, or harass any marine mammal.

An additional form of protection for the Florida manatee is outlined in county-specific manatee protection plans. Within Florida coastal waters, including Miami-Dade County, there are regulations on vessel speed. In areas that are especially important to manatees, boating is prohibited, have limited entry, or restrictions on activities allowed (Manatee Zones and No-Wake Zones).

Because of their habitat, large body size and slow swimming speed, the manatees can be struck by the hull or props of fast-moving watercraft. Since 2014 the FWC Fish and Wildlife Research Institute has recorded 22 (3 in 2021) manatee deaths in Miami-Dade County due to watercraft; this represents an average of 0.03% of deaths statewide in 2021. Over that time, only 3 of those deaths occurred in the downtown area of Biscayne Bay (from Miami River north to the Julia Tuttle Causeway). This is compared to the 0.09% of deaths recorded statewide due to watercraft in 2021. When all forms of manatee mortality (anthropogenic, cold temperatures, natural) are taken into account statewide, Miami-Dade manatee mortalities still represent less than 0.03% overall.

Since 2020 manatee mortalities have dramatically increased statewide (619 in 2020, 1101 in 2021) due to what is termed Unusual Mortality Events, or UME, not vessel strikes. The US Marine Mammal Protection Act defines a UME as "a stranding that is unexpected; involves a significant die-off of any marine mammal population; and demands immediate response." UME are often indicators of environmental issues which can affect overall ocean health. FWC reports that concurrent to the UME, seagrass species, a dominant food source for manatees, have also incurred die-offs. Multiple hypotheses for these die-offs include changes in ocean temperature and toxic algal blooms but no definitive contributing factors have yet been identified leading to the deaths of the manatees.

## III. Manatee Observations

The Miami International Boat Show (MIBS) and associated sea trial operations were conducted February 16-20, 2022. The location of the sea trials (Sea Isle Marine) was within a manatee protection zone. To add extra precaution for the manatees, designated Manatee Observers were employed during the MIBS along the piers of Sea Isle Marina, onboard sea trial vessels, and onboard Water Taxi vessels operating among Sea Isle Marina, One Herald Plaza, Island Gardens Marina, and Museum Park Marina.

Manatee Observers were provided and organized by Dr. Amy C. Hirons, CMOL, Nova Southeastern University. These people were all undergraduate and graduate students, or alumni

from Nova Southeastern University's marine biology/marine science programs. Before the show, all observers were sent a document with an overview of the position, required attire, manatee facts, and the observation log that was used during the show. The position overview informed observers of their duties while at the show. All observers were also added to a Group Chat to enable direct communication while at MIBS. At the beginning of every day during MIBS, all observers were given a rundown of their duties. This information included: Filling out the observation log, what to do when on the docks, what to do when on the Water Taxi, and what to do when on a sea trial. On the docks, Manatee Observers were to walk along all piers within Sea Isle Marina watching for manatees in the water. When a manatee was spotted, all observers were informed of the location and animal(s) description via Group Chat. Sightings were immediately reported via radio to all sea trials parties and then verified by AC Hirons. Manatee Observers on the piers at the marina then verbally informed all boat captains and crew that a manatee was present in the water in case their boat radios were not on or monitored at the time. Additionally, bull horns were used to inform the public as well as vessel crews. All possible data was recorded on the manatee log and photographs were taken. After all initial activities were completed, a minimum of one Observer stayed with the manatee to update the Group Chat on the manatee's position, and all manatee updates were reported over the radio.

Location, time, and description information of the manatee(s) were recorded on a whiteboard at the Manatee Observer tent along the seawall at the base of Pier 3 (Figures 1-2, Table 1). This information informed patrons that manatees were in the area and where they could spot a manatee. Patrons that stopped at the tent or stopped a Manatee Observer were educated about manatees and how boating and other human activities may impact the population. All show patrons were able to volunteer as Manatee Observers. Volunteering meant that the person was given and asked to wear one of the Manatee Observer t-shirts. If they spotted a manatee, they were asked to report that to a nearby Manatee Observer for information dissemination.

On the Water Taxi, Manatee Observers were positioned at the bow of the boat to watch for manatees. When a manatee was spotted, the observer informed the captain of the location of the manatee and extended their full arm to the location of the manatee. The captain of the vessel relayed the sighting by radio. The Observer then informed the Group Chat of the manatee and recorded all data possible. On a sea trial, Observers followed the same instructors as that on the Water Taxi. The one difference was the observer did not need to watch for manatees once the boat had cleared the Port of Miami turning basin.

Besides the Manatee Observers provided by Dr. Amy C. Hirons, Miami-Dade County's Department of Environmental Resources Management (DERM) personnel were also present at Sea Isle Marina, site of the boat show sea trials, to enforce manatee safe practices. DERM personnel were located dockside and at the entrance/exit of Sea Isle Marina watching for manatees. When a manatee was spotted, DERM personnel regulated the movement of all boat traffic within and immediately outside Sea Isle Marina through radio contact. Boats around the pier where the manatee was spotted were informed to hold all movement. Any sea trial vessels attempting to leave the marina radioed their location to get permission from DERM personnel to move from their boat slip. Boats that were returning from a sea trial were stopped at the marina

entrance and required to report their slip number to DERM who determined if they were allowed to enter the marina and go to their boat slip. Once a manatee cleared the marina, DERM personnel would radio an all clear to all vessels.

On Wednesday, February 16th there were 12 Manatee Observers patrolling and observing from 10:00am to 6:00pm. Two to three different manatees were spotted within Sea Isle Marina that day. Between 10:00am and 11:00am, one manatee was spotted by a dock Observer. This manatee was estimated to be 6-8 ft in length and traveling among the piers of Sea Isle Marina. Between 11:00am and 12:00pm, a manatee was spotted by a dock Observer. This manatee was estimated to be 8 ft in length and was seen at the end of Pier 3 swimming north. Between 3:00pm and 4:00pm, a manatee was spotted by a Water Taxi Observer. This manatee was of medium size (~6-8 ft) near the Sea Isle Marina entrance.

On Thursday, February 17th there were 14 Manatee Observers patrolling and observing from 10:00am to 6:00pm. Five to seven different manatees were spotted within Sea Isle Marina that day. Between 10:00am and 11:00am, one manatee was spotted by a dock Observer. This manatee was estimated to be 10 ft in length and spotted between Pier 3 and 4 along the sea wall. Between 11:00am and 12:00pm, one manatee was spotted by a dock Observer between Pier 1 and 2. Between 12:00pm and 1:00pm, two manatees, a mother and calf, were spotted by a dock Observer. These manatees were under Pier 1 and stayed within the marina until after 1:00pm. Between 1:00pm and 2:00pm, one manatee was spotted by a dock Observer. Based on the total body length, the manatee was believed to be an adult; it was spotted between Pier 1 and 2, swimming quickly south. At 4:21pm, one manatee was spotted by a dock Observer at the end of Pier 1 which is the entrance to Sea Isle Marina. Between 5:00pm and 6:00pm, one manatee was spotted by a Water Taxi Observer near the Sea Isle Marina Water Taxi stop.

On Friday, February 18th 17 Manatee Observers patrolled and observed from 10:00am to 6:00pm. Two different manatees were spotted within Sea Isle Marina that day. Between 10:00am and 11:00am, one manatee was spotted by a dock Observer. This manatee was estimated to be 9-10 ft in length and was first spotted near the seawall by Pier 5. There were 3 boat scars on the manatee's dorsal side and a white spot on the manatee's tail. The manatee stayed within Sea Isle Marina until 1:00pm. It moved between Pier 2 and 3 to then move to Pier 1. Between 2:00pm and 3:00pm, another manatee was spotted by a dock Observer. This manatee was estimated to be 9-10 ft and was located at the end of Pier 4. Part of the tail was missing on this manatee, distinguishing it from the day's first spotted manatee.

On Saturday, February 19th there were 24 Manatee Observers that observed and patrolled from 9:00am to 6:00pm. Two to three different manatees were spotted within Sea Isle Marina that day. Two different manatees were also spotted from the Water Taxi that day. Between 9:00am and 10:00am, one manatee was spotted by a dock Observer. This manatee was estimated to be 9-10 ft in length and was first spotted by Pier 1 close to the seawall. There was a boat scar on the manatee's dorsal side, and it was noted that this manatee was covered in algae. This animal remained in the area through 11:00am. Around 11:30am, a manatee was spotted by a Water Taxi Observer. This manatee was estimated to be 6-8 ft and was located under the middle of the MacArthur Causeway Bridge resting by a bridge support. Between 12:00pm and 1:00pm,

one manatee was spotted by a dock Observer. This manatee was estimated to be 6-8 ft in length and was spotted off the south side of Pier 1. Between 1:00pm and 2:00pm, a manatee was spotted by a Water Taxi Observer at the Harold Marina stop; it was noted to have a notch missing from its tail. At 1:15pm, one manatee was spotted by a dock Observer. This manatee was estimated to be 6-8 ft in length and was spotted between Pier 4 and 5 along the seawall. This manatee didn't leave the marina until approximately 2:30pm. Between 2:00pm and 3:00pm, one 6-8ft manatee was spotted by a dock Observer between Pier 2 and 3. Also between 2:00pm and 3:00pm, a manatee was spotted by a dock Observer. This manatee was estimated to be 6-8 ft in length and was located between Pier 1 and 2 near the seawall. Between 3:00pm and 4:00pm, a manatee was spotted by a dock Observer. This manatee was estimated to be 6-8 ft in length and was located off Pier 1 in slip 124. These last three manatee sightings could not be verified as distinct individuals so may be the same manatee.

On Sunday, February 20th there were 22 manatee observers that observed and patrolled from 9:00am to 5:00pm. Two to three different manatees were spotted within Sea Isle Marina that day. One manatee was spotted during a sea trial. Two different manatees were spotted from the Water Taxi that day. At 9:30am, a manatee was spotted by a dock Observer. This manatee was estimated to be 6-8 ft in length and was located midway along Pier 5. It was noted that this manatee had scars on its dorsal side. This manatee moved north between Pier 2 and 3 staying close to the seawall then proceeded to leave the marina to the north at approximately 9:55am. Between 1:00pm and 2:00pm, a manatee was spotted by a dock Observer. This manatee was located on the north side of Pier 1 at the end of the pier, which is also the entrance for the marina, moving eastward away from the marina to deeper water. Between 2:00pm and 3:00pm, a manatee was spotted by a sea trial Observer. This manatee was estimated to be 6-8 ft in length and was located within the Intracoastal Waterway east of Florida Explore. Also, between 2:00pm and 3:00pm, two manatees were spotted by a Water Taxi Observer along the seawall at the Museum Park taxi stop. Between 3:00pm and 4:00pm, one manatee was spotted by a dock Observer. This manatee was estimated to be 9-10 ft in length and was located off Pier 1 traveling north.

During all five boat show days and during show hours, there was a minimum of 13 and maximum of 18 manatees observed within the waters of Sea Isle Marina (Figures 3-32). Only one manatee was spotted during a sea trial. Six manatees were observed from the Water Taxi. Of the manatees spotted, 10 of them were reported to be 6-8 ft in length while five manatees were reported to be 9-10 ft. At least one manatee calf was sighted. Manatees were spotted throughout the day with the first manatee spotted between 9:00am and 11:00am. After 4pm, no manatees were spotted except Thursday after 5:00 from the Water Taxi stop at Sea Isle Marina. Manatees were consistently observed near or along the seawall during the morning high tide and most sightings were made further from the shoreline on the ebb tide (Table 2). The most common location where manatees were observed was Pier 1 followed by Pier 2 and Pier 3. The least common location the manatees were spotted was Pier 4 and Pier 5. For the duration of the show, there were no manatee-vessel interactions recorded.

## IV. Future Observations

This was the first year and first boat show that Informa required the assistance of Manatee Observers for a Florida boat show. The show was a successful event in the sense that no known manatees were reported injured due to boat interactions at the show. However, areas of improvement were noted for future Manatee Observations.

The Miami International Boat Show is a large event with a multiple day set up. Set up includes placement of temporary floating docks and moving vessels into slips. As seen during the 2022 MIBS, manatees were spotted underneath some of those floating docks. It is suggested that during the water set up and break down, multiple dedicated Manatee Observers be within the area to advise workers when to pause work for the safety of a manatee that has come too close to the activity.

The Manatee Observers used for the 2022 MIBS were all marine/environmental science students from NSU. There was no requirement to have manatee observation experience to work the show, but these students did have some field experience associated with marine habitats. Additional pre-show manatee observation training would be beneficial, particularly related to estimation of body length/size and identifying distinguishing characteristics (scars, calluses). Training would also include the art of photographing animals in water using cellphone cameras.

The Manatee Observation logs for MIBS 2022 were created for observation purposes alone (location, number, size). Additional location and identifier information based on marine mammal population studies will be incorporated in any future observations. With a more detailed observation log, it should be easier to more accurately assess the number of manatees spotted within a day.

Communication is key for a large event and consistency by all parties involved is critical. After reviewing the PowerPoint presentation that was sent to all sea trial and Water Taxi captains, more information on manatees could have been included. The presentation mentions manatees but there was no description of a manatee or how to spot a manatee. To help avoid collisions with manatees, it is important to know what one is looking for. Each vessel should have had a Manatee Observer log for each day, but it was found that none of the captains received a Manatee Observer log within their sea trial packets, only a sea trial log. This resulted in many captains and crew believing these were one and the same. This information was confirmed daily at the boat show by the vessel crews. In addition to the sea trial vessel captains, Water Taxi captains need information about the manatee safety protocols as well as the Manatee Observation log.

During the show, communication truly was key when it came to the safety of all manatees who frequent the marina area. For the manatee observation team, a group chat on GroupMe was created to be able to communicate with and coordinate the Manatee Observers as well as obtain sighting information. A single group chat used for all communication did become inefficient at times, especially when more than one manatee was spotted at a time. The information shared through the Manatee Observers' group chat was then communicated through radio to all other personnel on channel 68. Next time, the observer team should have more than one radio to make communication more efficient among the manatee teams.

The most important communication during the show was between the manatee team (Observers, DERM, and drone operators) and the sea trial captains. Most boat captains were not attentive to the manatee radio channel while in the marina, leading to extra confusion when they did need the status of any manatees. Manatee Observers on the docks helped by relaying information to boats and the public. A bull horn was used during the show to also warn the captains when a manatee was nearby in the water. This had the added advantage of gaining public attention not just to the manatee(s), but also provided educational opportunities for the public. For future shows, establishing set reporting times once a manatee is spotted would diminish the confusion about the continued presence or absence of a manatee. For example, a radio page must go out every five minutes on the position of the manatee coordinated with a set time (1:05, 1:10, 1:15….so on). Vessel captains would then know the most recent manatee information.

The last part of communication during the show was with show patrons. Part of the Manatee Observer team's job was to inform the public about manatees. This was predominantly done at the tent where the Manatee Observer team was located. A whiteboard was used to present information on manatee sightings with time and location. This added to the enjoyment and even excitement of MIBS for some patrons as they learned they did have an opportunity to see a manatee. When manatees were within the marina, using the bull horn brought awareness to the public where to see a live manatee in its natural habitat.

Engagement of the public is an important way to educate all people on the safety and importance of marine life and especially endangered or threatened species and habitats. Adding manatee observations to a Boat Show App would also facilitate the incorporation of citizen science and engage the public further. This app could include one page for the manatee observation team to update their manatee sightings as well as a second page for show patrons to post when they have seen a manatee. On the app, there can also be general information on Florida manatees that anyone could view. The continued use of the whiteboard is also encouraged as it's a visual grab to encourage people to stop and talk to the Manatee Observers. A few members of the Manatee Observer team could be dedicated to educating the public about the manatees and their habitat shared by boat users.

During MIBS 2022, t-shirts were offered to the public that wanted to participate as a volunteer manatee observer. These shirts were very popular and were worn during the show. However, these shirts were the same ones that the Manatee Observer team members were wearing, leading to potential confusion as to who was an observer and who was a volunteer. In the future, there should be two different colors of t-shirts, one for the Manatee Observers and one for the volunteers, to minimize any confusion. The last part of public relations during the show came in the form of media interviews. Having an idea of when and how many interviews are going to occur can help the Manatee Observation team to be prepared to answer any and all questions a media representative might have.

The Miami International Boat Show did include a team of people flying drones to assist in the spotting of manatees from the sky. This footage is beneficial when piecing together manatee activity post show as the viewer can see truly where a single manatee had travelled

throughout a marina. To be able to use the footage accurately, a day/time stamp should be included on all drone footage. Also, drones should follow a manatee for the duration that it is within the marina as when manatees dive, an observer can lose sight of it.

Table 1. Meteorologic conditions (air temperature and wind speed) Miami International Airport stations from February 16-20, 2022 (www.wunderground.com).

| Day | Temperature Range (ºC) | Average Temperature (ºC) | Max Wind Speed (mph) |
|---|---|---|---|
| Wednesday | 26-22 | 23.4 | 25 |
| Thursday | 27-22 | 24.4 | 20 |
| Friday | 28-22 | 25.3 | 14 |
| Saturday | 29-22 | 23.7 | 13 |
| Sunday | 26-21 | 23.2 | 14 |

Table 2. Tide times for Miami, Florida from February 16-20, 2022 (www.usharbors.com).

| Day | First Low Tide | Tide Height (m) | First High Tide | Tide Height (m) | Second Low Tide | Tide Height (m) | Second Low Tide | Tide Height (m) |
|---|---|---|---|---|---|---|---|---|
| Wednesday | 2:37 | -0.1 | 8:54 | 0.6 | 15:02 | -0.03 | 21:06 | 0.6 |
| Thursday | 3:16 | -0.1 | 9:33 | 0.6 | 15:41 | -0.06 | 21:48 | 0.6 |
| Friday | 3:56 | -0.1 | 10:11 | 0.6 | 16:19 | -0.06 | 22:30 | 0.6 |
| Saturday | 4:36 | -0.1 | 10:48 | 0.6 | 16:59 | -0.1 | 23:14 | 0.6 |
| Sunday | 5:19 | -0.06 | 11:26 | 0.6 | 17:43 | -0.1 | - | - |

## Appendix I. Manatee Observation Logs

A. Wednesday, February 16th

B. Thursday, February 17th

C. Friday, February 18th

D. Saturday, February 19th

E. Sunday, February 20th

Wed
2/16/22

# Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air**. On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | alive 6-8ft traveling | traveling in dock |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | 0 | | |
| 4:00-5:00 | 0 | | |

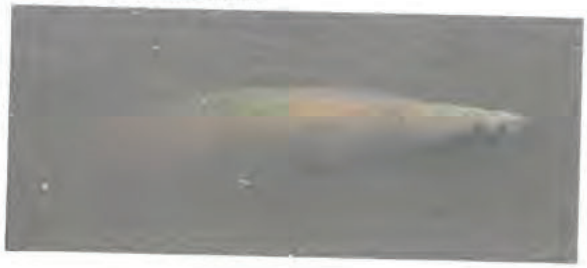
dock

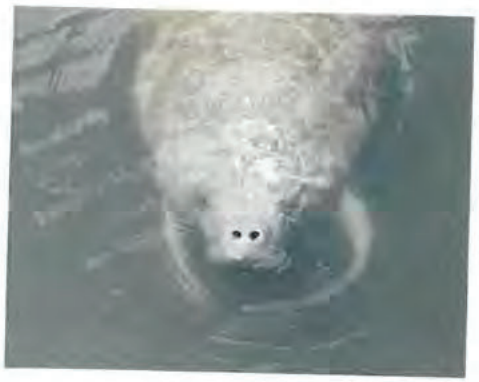
**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Wed
2/16/22

# Manatee Observation Log

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- Being a mammal, **manatees need to breath air**. On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

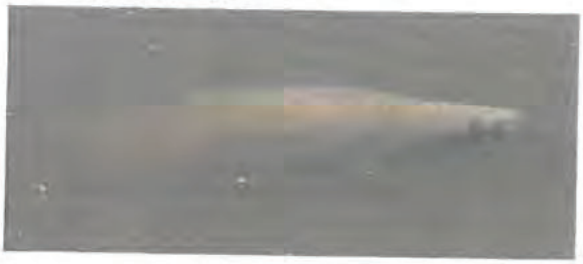
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 1 | BFA alive behind shop | swimming N in |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 1 | alive medium off sea isle | swimming towards pier 6 |
| 5:00 – 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Wed
2/16/22

# Manatee Observation Log

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- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| ~~5:00 – 6:00~~ 4:00 - 5:00 | 0 | | |
| 5:00 - 6:00 | 0 | | |

Deck 11
Sea Tr
Water
Tank

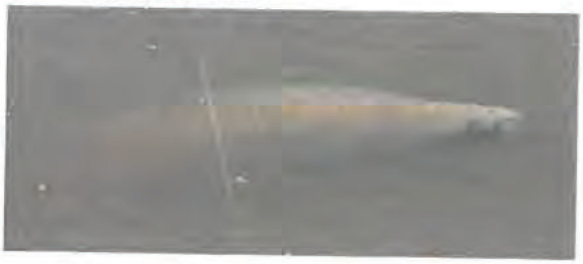
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WT
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**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Wed
2/16/22

# Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air**. On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
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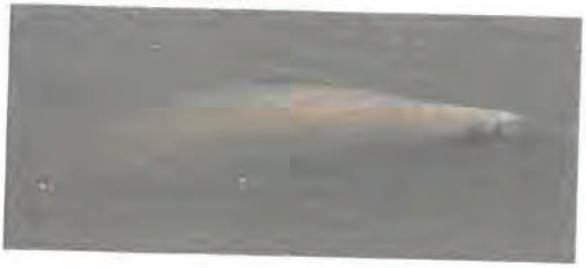
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| 5:00 - 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

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Type - feeding, resting, swimming, or other
Direction of travel





Wed
2/16/22

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boat, dock, taxi?

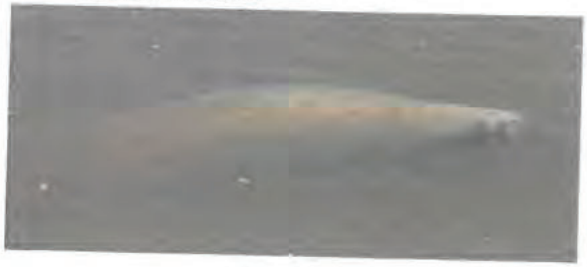
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|---|---|---|---|
| 10:00 - 11:00 | Ø | | |
| 11:00 - 12:00 | Ø | | |
| 12:00 – 1:00 | Ø | | |
| 1:00 – 2:00 | Ø | | |
| 2:00 – 3:00 | Ø | | |
| 3:00 – 4:00 | Ø | | |
| 5:00 – 6:00 | Ø | | |
| 4:00-5:00 | Ø | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Alexis Weal
Wilcox 2/16/22

# Manatee Observation Log

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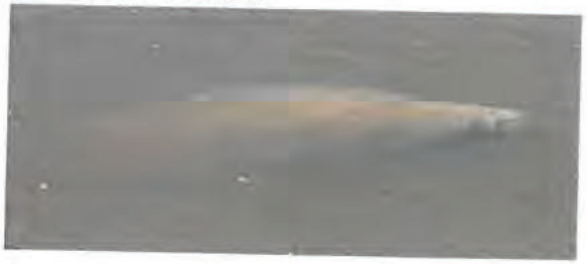
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| 11:00 - 12:00 | 0 | — | — |
| 12:00 – 1:00 | 0 | — | — |
| 1:00 – 2:00 | 0 | — | — |
| 2:00 – 3:00 | 0 | — | — |
| 3:00 – 4:00 | 0 | — | — |
| 5:00 – 6:00 | 0 | — | — |
| 4:00-5:00 | 0 | — | — |

**Description:**

Animal's condition - alive, entangled, injured, or dead
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**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Wed
2/16/22

# Manatee Observation Log

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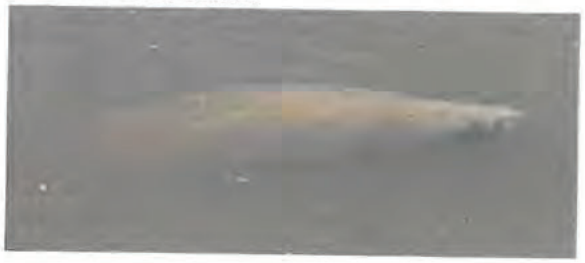
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| 12:00 – 1:00 | 0 | — | — |
| 1:00 – 2:00 | 0 | — | — |
| 2:00 – 3:00 | 0 | — | — |
| 3:00 – 4:00 | 0 | — | — |
| 5:00 – 6:00 | 0 | | |

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Wed
2/16/22

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|---|---|---|---|
| 10:00 - 11:00 | 0 | N/A | N/A |
| 11:00 - 12:00 | 0 | N/A | N/A |
| 12:00 – 1:00 | 0 | N/A | N/A |
| 1:00 – 2:00 | 0 | N/A | N/A |
| 2:00 – 3:00 | 0 | N/A | N/A |
| 3:00 – 4:00 | 0 | N/A | N/A |
| 4:00 – 5:00 | 0 | N/A | N/A |
| 5 – 6 | 0 | N/A | N/A |

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Wed
2/16/22

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deck / water taxi / boat

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | 0 | | |

4:00 - 5:00

**Description:**

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Type - feeding, resting, swimming, or other
Direction of travel





. Wed
2/16/22

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Brian Brooks

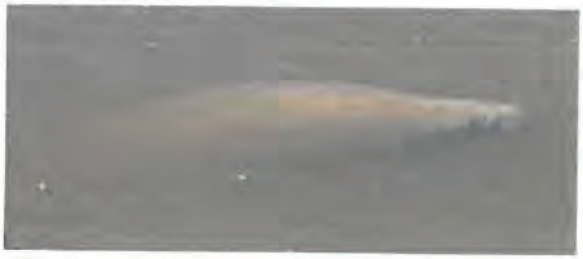
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|---|---|---|---|
| 10:00 - 11:00 | 0 | ↑ | |
| 11:00 - 12:00 | 0 | N/A | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 0 | ↓ | |
| 3:00 - 4:00 | 0 | | |
| ~~5:00 - 6:00~~ 4:00 - 5:00 | 0 | | |
| 5:00 - 6:00 | 0 | | |

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**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Wed
2/16/22

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|---|---|---|---|
| 10:00 - 11:00 | Ø | N/A | N/A |
| 11:00 - 12:00 | Ø | N/A | N/A |
| 12:00 - 1:00 | Ø | N/A | N/A |
| 1:00 - 2:00 | Ø | N/A | N/A |
| 2:00 - 3:00 | Ø | N/A | N/A |
| 3:00 - 4:00 | Ø | N/A | N/A |
| 5:00 - 6:00 | Ø | N/A | N/A |
| 4:00-5:00pm | Ø | N/A | N/A |

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Wed
2/16/22

Carmyn Raposo

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|---|---|---|---|
| 10:00 - 11:00 | Ø | N/A | N/A |
| 11:00 - 12:00 | Ø | N/A | N/A |
| 12:00 – 1:00 | Ø | N/A | N/A |
| 1:00 – 2:00 | Ø | N/A | N/A |
| 2:00 – 3:00 | Ø | N/A | N/A |
| 3:00 – 4:00 | Ø | N/A | N/A |
| 5:00 – 6:00 | Ø | N/A | N/A |
| 4:00 - 5:00 | Ø | N/A | N/A |

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Direction of travel





Thurs
2/17/22

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | Water taxi | |
| 11:00 - 12:00 | 0 | Water taxi | |
| 12:00 - 1:00 | 0 | Water taxi | |
| 1:00 - 2:00 | 0 | Water taxi | |
| 2:00 - 3:00 | 0 | Docks | |
| 3:00 - 4:00 | 0 | | |
| ~~5~~4:00 - ~~6~~5:00 | 0 | | |
| 5:00 - 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

Boat: World Cat
time out: 3:15pm
time in: 3:55 pm

## Manatee Observation Log

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Sea trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | — | | |
| 11:00 - 12:00 | — | | |
| 12:00 – 1:00 | — | | |
| 1:00 – 2:00 | — | | |
| 2:00 – 3:00 | — | | |
| 3:00 – 4:00 | 0 | — | — |
| 5:00 – 6:00 | — | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

## Manatee Observation Log

Boat & Gear
Tone Gone: Reflexes 10:30AM
Low Tide: 11:06AM

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See trial

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|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | — | | |
| 12:00 – 1:00 | — | | |
| 1:00 – 2:00 | — | | |
| 2:00 – 3:00 | — | | |
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Direction of travel





Thurs
2/17/22

vessel #: BoBs
(Water Taxi)

## Manatee Observation Log

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| 10:00 - 11:00 | 0 | — | — |
| 11:00 - 12:00 | 0 | — | — |
| 12:00 – 1:00 | 0 | — | — |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| ~~5:00 – 6:00~~ 4:00 - 5:00 5:00 - 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

## Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air**. On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

water taxi: Sea Isle → Herald

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | 1 | near stop @ sea isle | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

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Sea Trial
Sharrow Marine-

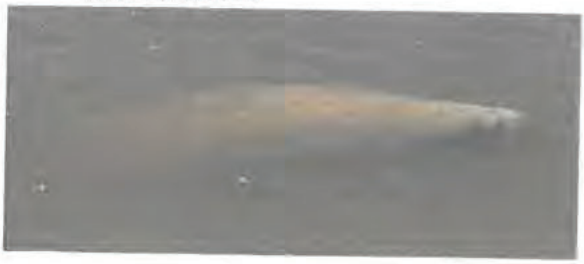
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|---|---|---|---|
| 10:00 - 11:00 | – | | |
| 11:00 - 12:00 | 0 | / | / |
| 12:00 – 1:00 | – | | |
| 1:00 – 2:00 | – | | |
| 2:00 – 3:00 | – | | |
| 3:00 – 4:00 | – | | |
| ~~5:00 – 6:00~~ 4:00-5:00 5:00-6:00 | – | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

# Manatee Observation Log

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Sea Trial
CONTENDER SHARROW MARINE - JIM & GREG

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | / | / |
| 11:00 - 12:00 | 0 | / | / |
| 12:00 – 1:00 | 0 | / | / |
| 1:00 – 2:00 | — | | |
| 2:00 – 3:00 | — | | |
| 3:00 – 4:00 | — | | |
| 5:00 – 6:00 | — | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Capt. Vince Thurs 2/17/22 Water Taxi
Ramp 3

## Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | None | No activity |
| 11:00 - 12:00 | 0 | None | No activity |
| 12:00 - 1:00 | 0 | None | No activity |
| 1:00 - 2:00 | 0 | None | No activity |
| 2:00 - 3:00 | — | | |
| 3:00 - 4:00 | — | | |
| 5:00 - 6:00 | — | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

# Manatee Observation Log

**Tips for spotting manatees:**

Mercury Racing

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Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | – | – | |
| 11:00 - 12:00 | – | – | |
| 12:00 – 1:00 | – | – | |
| 1:00 – 2:00 | – | – | |
| 2:00 – 3:00 | – | – | |
| 3:00 – 4:00 | 0 | None | No activity |
| 5:00 – 6:00 | – | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

Harold plaza
Vessel: Glades
Taxi

## Manatee Observation Log

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|---|---|---|---|
| 10:00 - 11:00 | — | | |
| 11:00 - 12:00 | — | | |
| 12:00 – 1:00 | — | | |
| 1:00 – 2:00 | — | | |
| 2:00 – 3:00 | — | | |
| 3:00 – 4:00 | 0 | Harold plaza to museum | No activity |
| 5:00 – 6:00 | 0 | Harold Plaza to museum | No activity |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

# Manatee Observation Log

Boat: 43 Jupiter
Time out: 4:00pm
Time in: 4:45pm

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Sea Trial

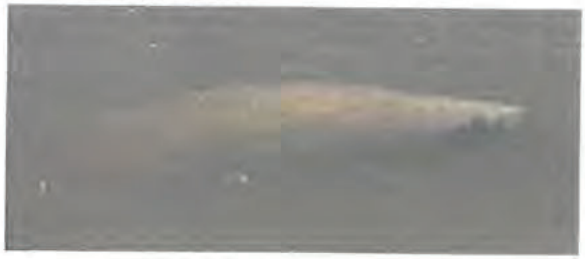
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|---|---|---|---|
| 10:00 - 11:00 | — | | |
| 11:00 - 12:00 | — | | |
| 12:00 – 1:00 | — | | |
| 1:00 – 2:00 | — | | |
| 2:00 – 3:00 | — | | |
| 3:00 – 4:00 | — | | |
| 5:00 – 6:00 | — | | |
| 4:00-5:00 | 0 | — | — |

**Description:**

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Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

# Manatee Observation Log

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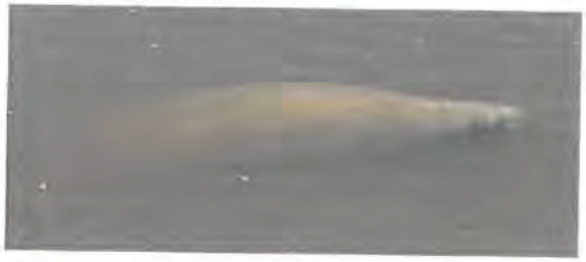
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|---|---|---|---|
| 10:00 - 11:00 | 0 | — | — |
| 11:00 - 12:00 | 1 | 6-8 ft, between pier 1+2 | coming up for air |
| 12:00 - 1:00 | 2+2 calf | 6-8ft, stationary | coming up for air every 25h with |
| 1:00 - 2:00 | | → some ongoing data | surfacing less frequently |
| 2:00 - 3:00 | 0 | — | — |
| 3:00 - 4:00 | 0 | — | — |
| 5:00 - 6:00 | 0 | — | — |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

# Manatee Observation Log

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Location : Dock

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | III, 3 | 1 - North Pier 1, adult<br>II - North of Pier 2, adult | Feeding, Stationary |
| 12:00 - 1:00 | II, 2 | II - Mother / calf, under Pier 1 | Swimming, grazing |
| 1:00 - 2:00 | 1, 1 | 1 Adult - Pier 1 to Pier 2 | Swimming quickly South |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| ~~5:00 - 6:00~~ 4 - 5 | 0 | | |
| 5 - 6 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

Dock

## Manatee Observation Log

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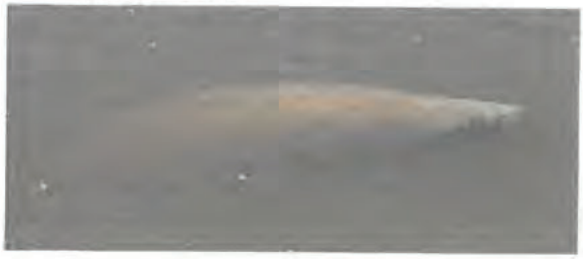
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 Dock | 1 | Between Pier 3 & 4 close to dock | Surfaced for air |
| 11:00 - 12:00 Sea Trail | 0 | | |
| 12:00 - 1:00 Lower Tax | 0 | | |
| 1:00 - 2:00 Water Tax | 0 | | |
| 2:00 - 3:00 Water Tax | 0 | | |
| 3:00 - 4:00 Dock | 0 | | |
| 5:00 - 6:00 Water Tax | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

WATER TAXI

# Manatee Observation Log

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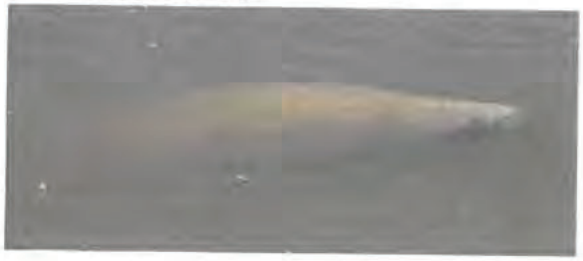
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|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
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| 4:00-5:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
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**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

Rachel
taxi to superyacht

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | Ø | | |
| 11:00 - 12:00 | Ø | | |
| 12:00 - 1:00 | Ø | | |
| 1:00 - 2:00 | Ø | | |
| 2:00 - 3:00 | Ø | | |
| 3:00 - 4:00 | Ø | | |
| 5:00 - 6:00 | 1? | end of pier one | spotted via drone (4:21) |
| 5:00 - 6:00 | Ø | | |

**Description:**

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**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

## Manatee Observation Log

water taxi, kayaks

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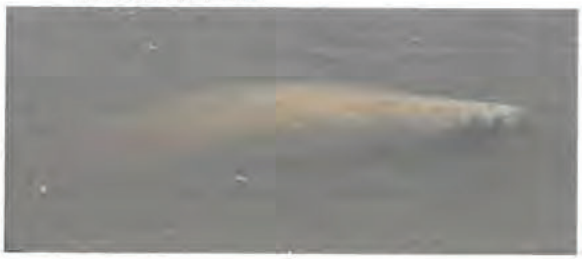
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|---|---|---|---|
| 10:00 - 11:00 | Ø | | |
| 11:00 - 12:00 | Ø | | |
| 12:00 - 1:00 | Ø | | |
| 1:00 - 2:00 | Ø | | |
| 2:00 - 3:00 | Ø | | |
| 3:00 - 4:00 | Ø | | |
| 5:00 - 6:00 | Ø | | |

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Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

# Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air**. On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | water taxi | |
| 11:00 - 12:00 | 0 | water taxi | |
| 12:00 - 1:00 | 0 | water taxi | |
| 1:00 - 2:00 | 0 | water taxi/lunch | |
| 2:00 - 3:00 | 0 | Docks | |
| 3:00 - 4:00 | 0 | Docks | |
| 5:00 - 6:00 | 0 | Docks | |
| 4:00-5:00 | 0 | sharrow sea trial | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

vessel #: Pier

## Manatee Observation Log

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|---|---|---|---|
| 10:00 - 11:00 | — | | |
| 11:00 - 12:00 | — | | |
| 12:00 – 1:00 | — | | |
| 1:00 – 2:00 | — | | |
| 2:00 – 3:00 | — | | |
| 3:00 – 4:00 | — | | |
| ~~5:00 – 6:00~~ 4 - 5:00 | 0 | — | — |
| 5:00 - 6:00 | 0 | — | — |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

vessel #: Shannon

# Manatee Observation Log

3:02-3:50

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Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 - 1:00 | | | |
| 1:00 - 2:00 | | | |
| 2:00 - 3:00 | | | |
| 3:00 - 4:00 | 0 | — | — |
| ~~5:00 - 6:00~~ 4:00 - 5:00 | — | | |
| 5:00 - 6:00 | — | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

# Manatee Observation Log

Marina

**Tips for spotting manatees:**

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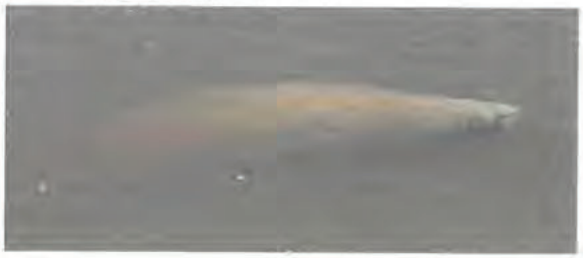
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | marina (Injured) 10FT | resting/swimming |
| 11:00 - 12:00 | 2 | Pier 1-2 | resting |
| 12:00 - 1:00 | 2 | mom and baby - Left of Pier 1 | swimming |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| 5:00 - 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Thurs
2/17/22

# Manatee Observation Log

Marina

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Sea trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | — | | |
| 11:00 - 12:00 | — | | |
| 12:00 – 1:00 | — | | |
| 1:00 – 2:00 | — | | |
| 2:00 – 3:00 | — | | |
| 3:00 – 4:00 | — | | |
| ~~5:00 – 6:00~~ 4-5:00 | 1 | entrance of marina | |
| 5-6:00 | — | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

## Manatee Observation Log NorTech

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Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | None | |
| 11:00 - 12:00 | | | |
| 12:00 - 1:00 | | | |
| 1:00 - 2:00 | | | |
| 2:00 - 3:00 | | | |
| 3:00 - 4:00 | | | |
| 5:00 - 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

## Manatee Observation Log

// Yellowfin

Tips for spotting manatees:

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Sea Trial

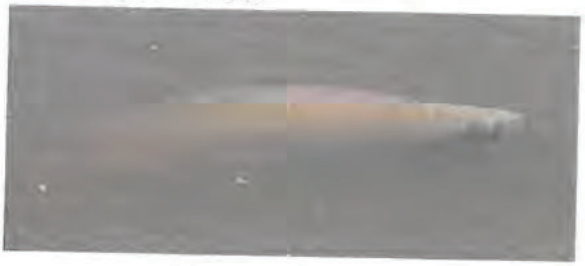
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|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

# Manatee Observation Log

DCB

**Tips for spotting manatees:**

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Sea Trial

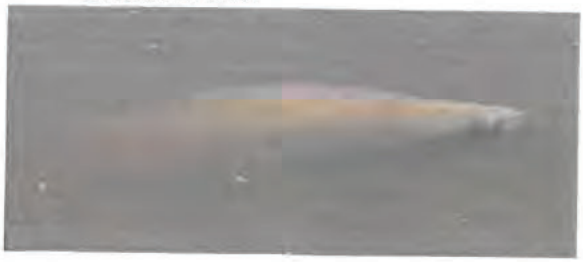
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 - 1:00 | | None | |
| 1:00 - 2:00 | | | |
| 2:00 - 3:00 | | | |
| 3:00 - 4:00 | | | |
| 5:00 - 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

Plan 3
Mercury #314

# Manatee Observation Log

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Sea Trial

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|---|---|---|---|
| 10:00 - 11:00 | – | | |
| 11:00 - 12:00 | – | | |
| 12:00 – 1:00 | 0 | Sea trial - Scout boats | |
| 1:00 – 2:00 | – | | |
| 2:00 – 3:00 | 0 | Sea trial - Scout boats | |
| 3:00 – 4:00 | – | | |
| 5:00 – 6:00 | 0 | SEA TRIAL - SCOUT | |

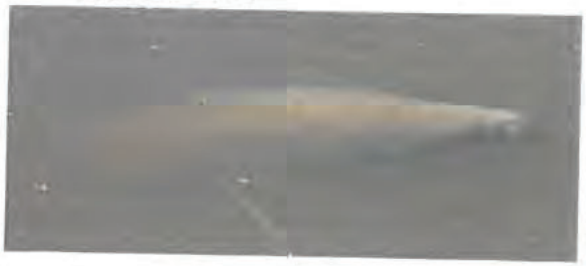
5:00 - 6:00 –

**Description:**

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**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

# Manatee Observation Log

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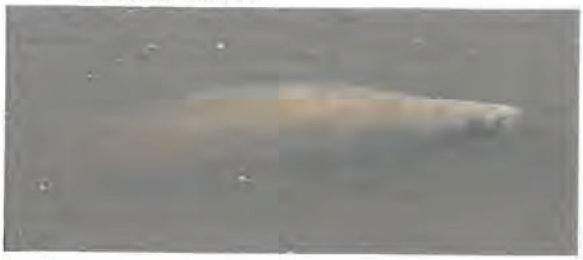
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | Dock 5 - large 3 boat moors | feeding (9-12 ft) |
| 11:00 - 12:00 | ↓ | ↓ | ↓ |
| 12:00 – 1:00 | Same | manatee but moved to | Dock 1 |
| 1:00 – 2:00 | ↓ | ↓ | ↓ |
| 2:00 – 3:00 | 1 | end of dock 4 | feeding/diving |
| 3:00 – 4:00 | ↓ | ↓ | ↓ |
| 5:00 – 6:00 | Taxi | | |

**Description:**

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**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

# Manatee Observation Log

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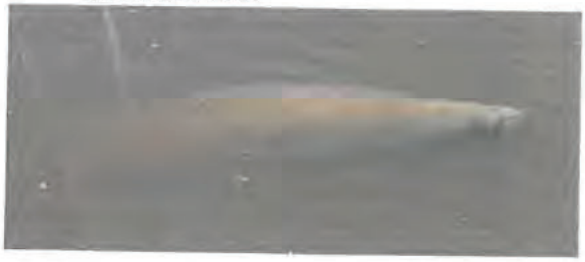
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | 8-9 | Resting/Swimming |
| 11:00 - 12:00 | 1 | | Resting |
| 12:00 - 1:00 | 0 | N/A | N/A |
| 1:00 - 2:00 | 1 | 8-9 | Resting |
| 2:00 - 3:00 | 1 | | |
| 3:00 - 4:00 | 1 | alive, 9-10 feet | eating |
| 5:00 - 6:00 | 1 | | N/A |

**Description:**

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**Activity:**

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Direction of travel





Fri
2/18/22

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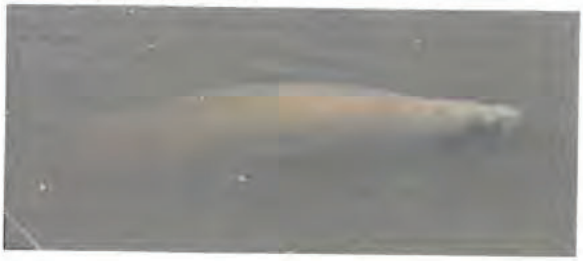
| | Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|---|
| Pier | 10:00 - 11:00 | 1 | Dock 5 by sign for Ramp 7 6-8 ft Sunrise Scrapson lower back + white spot on tail | Feeding towards Ramp 4-5 |
| Pier | 11:00 - 12:00 | 1 | Between ramp 2 & 3 - Same one? near the walkway to the docks | Feeding in the shallow area towards Pier 1 |
| Pier | 12:00 - 1:00 | 0 | | |
| Taxi | 1:00 - 2:00 | 0 | | |
| Taxi | 2:00 - 3:00 | 0 | | |
| Taxi | 3:00 - 4:00 | 0 | | |
| Pier | 5:00 - 6:00 | 0 | | |
| Taxi | 4 - 5 | 1 | Giant Swirl to left of dock landing - Museum park marina | Feeding/Resting - unable to determine direction |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

# Manatee Observation Log

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| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 1 | END OF PIER 4, 9-10ft, ALIVE, UNDER YAMAHA, PART OF FLUKE | ~~SWIMMING~~ FEEDING, RESTING |
| 4:00 – 5:00 | | | MISSING |
| 5:00 - 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

MERCURY
PEIR 3 #319
YELLOWFIN

# Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air.** On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

Sea Trial

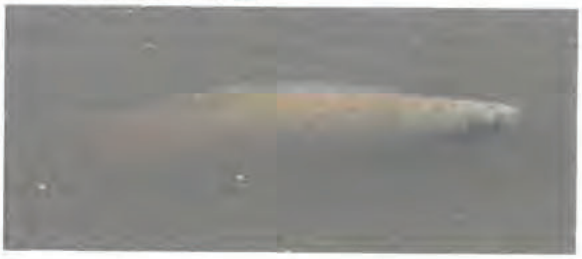
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | — | | |
| 11:00 - 12:00 | — | | |
| 12:00 – 1:00 | — | | |
| 1:00 – 2:00 | — | | |
| 2:00 – 3:00 | — | | |
| 3:00 – 4:00 | — | | |
| 5:00 – 6:00 | 0 | SEATRIAL - YELLOWFIN | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

# Manatee Observation Log

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- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

S- M - 30 L - 33 XL - 16

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| 5:00 - 6:00 4-5 5-6 | 0 | | |

T T T ea inial Dock Dock Dock Dock

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | N/A | N/A |
| 11:00 - 12:00 | 0 | N/A | N/A |
| 12:00 - 1:00 | 0 | N/A | N/A |
| 1:00 - 2:00 | 0 | N/A | N/A |
| 2:00 - 3:00 | 1 | [illegible] | [illegible] |
| 3:00 - 4:00 | 0 | N/A | N/A |
| 4:00 - 5:00 | 0 | N/A | N/A |
| 5 - 6 | 0 | N/A | N/A |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | — | — |
| 11:00 - 12:00 | 0 | — | — |
| 12:00 – 1:00 | 0 | — | — |
| 1:00 – 2:00 | 0 | — | — |
| 2:00 – 3:00 | 0 | — | — |
| 3:00 – 4:00 | 0 | — | — |
| 5:00 – 6:00 | 0 | — | — |
| 4:00 – 5:00 | 0 | — | — |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

# Manatee Observation Log

Dock

**Tips for spotting manatees:**

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- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | Docks | |
| 11:00 - 12:00 | 1 | Alive - end of Pier 1 | |
| 12:00 - 1:00 | - | - Sea trial | |
| 1:00 - 2:00 | 0 | Docks | |
| 2:00 - 3:00 | - | - Sea trial | |
| 3:00 - 4:00 | 0 | Docks | |
| 4:00 - 5:00 | 0 | Docks | |
| 5:00 - 6:00 | 0 | Docks | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

# Manatee Observation Log

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manatees = 0

| Time | Number manatee spotted? | Description and location of manatee(s): Pier 7 | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | 9-10ft scar on back | moving along under dock |
| 11:00 - 12:00 | 0 | NA | NA |
| 12:00 - 1:00 | 2 | (1) NA (2) 10ft \| 7-8ft Pier 1 | stationary (2) moved (1) out of Dock |
| 1:00 - 2:00 | 2 | 7-9ft (Pier 1 - 5) | 1-20-2-30 moved to the Area |
| 2:00 - 3:00 | 0 | NA | NA |
| 3:00 - 4:00 | 0 | NA | NA |
| 5:00 - 6:00 | 0 | NA | NA |
| 4:00-5:00 | 0 | NA | NA |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

Dock/Sea trial/~~Taxi~~

Monica

## Manatee Observation Log

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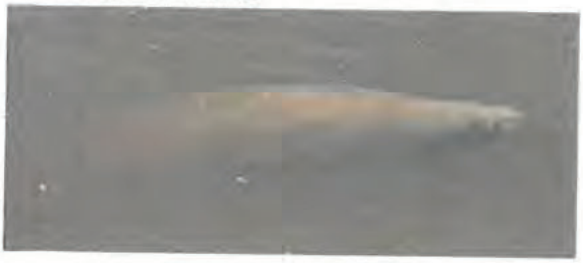
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | Dock |
| 11:00 - 12:00 | 0 | | Dock |
| 12:00 - 1:00 | 0 | | Sea trial |
| 1:00 - 2:00 | 0 | | sea trial |
| 2:00 - 3:00 | 0 | | taxi |
| 3:00 - 4:00 | 0 | | taxi |
| 5:00 - 6:00 | 0 | | Taxi |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

Vessel #:

## Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 1 | pier 1 - active | swimming/resting |
| 12:00 - 1:00 | 1 | same manatee ↓ | |
| 1:00 - 2:00 | — | | |
| 2:00 - 3:00 | — | | |
| 3:00 - 4:00 | — | | |
| ~~5:00 - 6:00~~ 4:00 - 5:00 | — | | |
| 5:00 - 6:00 | — | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

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water taxi: herald → super yachts

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|---|---|---|---|
| 10:00 - 11:00 | — | — | — |
| 11:00 - 12:00 | — | — | — |
| 12:00 - 1:00 | — | — | — |
| 1:00 - 2:00 | 0 | — | — |
| 2:00 - 3:00 | 0 | — | — |
| 3:00 - 4:00 | 0 | — | — |
| ~~5:00 - 6:00~~ 4:00-5:00 | 0 | — | — |
| 5:00-6:00 | 0 | | |

**Description:**

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Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | ① | Docks | |
| 11:00 - 12:00 | 2 | alive 9-10 ft between docks 3 & 5 | swimming → moved from deck 3-5 1 |
| 12:00 - 1:00 | 1 | alive, 6-8 ft between Docks 1&2 | swimming, moving east between docks 1&2 |
| 1:00 - 2:00 | ① | Shallow boat/sea trial | |
| 2:00 - 3:00 | ① | Shallow boat/sea trial | |
| 3:00 - 4:00 | ① | Docks | |
| 5:00 - 6:00 | ① | sea trial Mercury | |
| 4:00-5:00 | ① | sea trial Mercury | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

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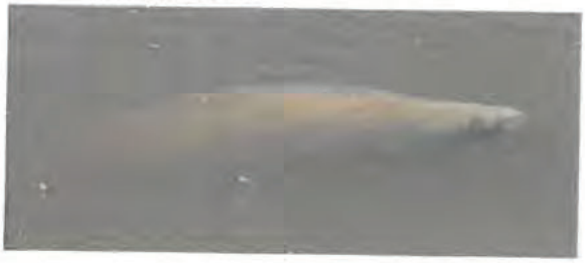
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | boat I | |
| 11:00 - 12:00 | 0 | I | |
| 12:00 - 1:00 | 0 | taxi T | |
| 1:00 - 2:00 | 0 | T | |
| 2:00 - 3:00 | 0 | T | |
| 3:00 - 4:00 | 0 | I | |
| 5:00 - 6:00 | 0 | dock T | |
| 4:00 - 5:00 | 0 | I | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

Marina

# Manatee Observation Log

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Channel 68

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | Injured 6-8ft (Pier 1-3 | Swimming |
| 11:00 - 12:00 | " " | " Pier 5(1) | Eating |
| 12:00 - 1:00 | " | " Pier 1 | Resting |
| 1:00 - 2:00 | 0 | 0 | 0 |
| 2:00 - 3:00 | 1 | Injured 10ft Pier 4 | Eating — Injured tail |
| 3:00 - 4:00 | " " | " " | " " |
| 5:00 - 6:00 | 0 | 0 | 0 |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





WT = water taxi Fri
D = Dock 2/18/22

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 2 | -between 4 and 5<br>-end of 4 under dock | -swimming towards 5<br>-eating grass at a pole |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | 0 | | |
| 4:00-5 | 0 | | |

**Description:**

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Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

## Manatee Observation Log

Mystic

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air**. On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | None. | |
| 12:00 - 1:00 | | | |
| 1:00 - 2:00 | | | |
| 2:00 - 3:00 | | | |
| 3:00 - 4:00 | | | |
| 5:00 - 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

## Manatee Observation Log

Fountain

Tips for spotting manatees:

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air**. On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

See Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | None | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

## Manatee Observation Log

Black Thunder Offshore
43' flat deck

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air**. On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | Pier 5 entrance | |
| 11:00 - 12:00 | — | | |
| 12:00 - 1:00 | — | | |
| 1:00 - 2:00 | — | | |
| 2:00 - 3:00 | — | | |
| 3:00 - 4:00 | — | | |
| 5:00 - 6:00 | — | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

## Manatee Observation Log

Vessel #:
Glass Stream
Slip # 311

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air**. On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| ~~5:00 - 6:00~~ 4:00 - 5:00 | 0 | | |
| 5:00 - 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Fri
2/18/22

# Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
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- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | left of pier 5, 9-10ft | eating |
| 11:00 - 12:00 | 1 | same one in marina and by pier 1 | swimming |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 1 | under yamaha pier 4 - moved btwn 4:5 | resting |
| 5:00 – 6:00 | 0 | | |
| 4:00-5:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





4/2 Jupiter Fri
Mercury 2/18/22
Celestine

# Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
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- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed. Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | — | | |
| 11:00 - 12:00 | — | | |
| 12:00 - 1:00 | — | | |
| 1:00 - 2:00 | — | | |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | — | | |
| 5:00 - 6:00 | — | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

# Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
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- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

## Manatee Observation Log

Word Cat

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
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- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | None | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

# Manatee Observation Log

Sea Trial

**Tips for spotting manatees:**

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

None

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

# Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
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- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed. Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| ~~10:00 - 11:00~~ | | | |
| ~~11:00 - 12:00~~ | | | |
| 12:00 - 1:00 | Ø | Sea Isle Marina | |
| 1:00 - 2:00 | | | |
| 2:00 - 3:00 | Ø | Sea Isle Marina | Pier 2 |
| ~~3:00 - 4:00~~ | Ø | Sea Isle Marina | |
| 5:00 - 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Valerie Sat
Castro 2/19/22

vessel #:

## Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
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- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

- Hubavoir North towards River 1
- seagrass

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | Swimming East | |
| 11:00 - 12:00 | 1 | | |
| 12:00 - 1:00 | 1 | | |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| ~~5:00 - 6:00~~ 4:00 - 5:00 | 0 | | |
| 5:00 - 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

## Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
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- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

| Time<br>9-10 → | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | Pier 1 | eating |
| 11:00 - 12:00 | 1 | Pier 1 (NE side) | breach. |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 1 | Pier 4 (under) | eating |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

## Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | N/A | N/A |
| 11:00 - 12:00 | 0 | N/A | N/A |
| 12:00 – 1:00 | 0 | N/A | N/A |
| 1:00 – 2:00 | 0 | N/A | N/A |
| 2:00 – 3:00 | 0 | N/A | N/A |
| 3:00 – 4:00 | 0 | N/A | N/A |
| ~~5:00 – 6:00~~ 4:00-5:00 | 0 | N/A | N/A |
| 5:00-6:00 | 0 | N/A | N/A |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

## Manatee Observation Log

Land

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | - | - |
| 11:00 - 12:00 | 0 | - | - |
| 12:00 – 1:00 | 0 | - | - |
| 1:00 – 2:00 | 0 | - | - |
| 2:00 – 3:00 | 0 | - | - |
| 3:00 – 4:00 | 0 | - | - |
| 5:00 – 6:00 | ✓ | ✓ | ✓ |

4-5

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

# Manatee Observation Log

**Tips for spotting manatees:**

water taxi

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

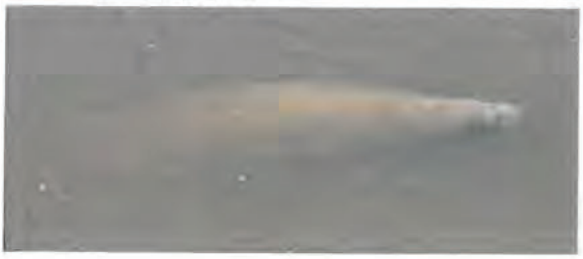
4 - 5

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

# Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air.** On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

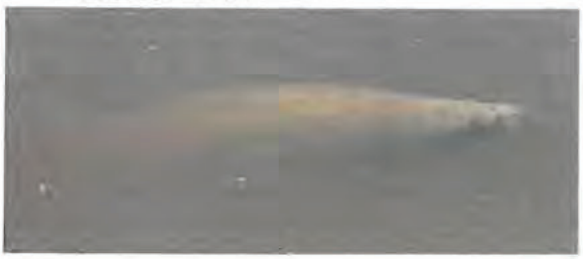
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 T | | |
| 11:00 - 12:00 | 0 T | | |
| 12:00 - 1:00 | 0 T | | |
| 1:00 - 2:00 | 1:30 1 D | ADULT, BETWEEN PIER 4+5 | SURFACING |
| 2:00 - 3:00 | 2:10 1 D | ADULT AGAINST PIER 4 | SURFACING |
| 3:00 - 4:00 | 0 ST | | |
| 5:00 - 6:00 | 0 ST | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

## Manatee Observation Log

Fountain

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air**. On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

## Manatee Observation Log

World Cat

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air.** On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | MMC | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

## Manatee Observation Log

DCB

**Tips for spotting manatees:**

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- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

## Manatee Observation Log

Mystic PCB

Tips for spotting manatees:

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Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 - 1:00 | | | |
| 1:00 - 2:00 | | | |
| 2:00 - 3:00 | | | |
| 3:00 - 4:00 | | | |
| 5:00 - 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

## Manatee Observation Log

Nor Tech

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Sea Trial

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|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

## Manatee Observation Log

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9-10 ft long
9 am 1 under statue of ducks 182 swimming, headed north

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 1 | Harold marina - notches right of tail | diving - backside of marina near yachts |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| 5:00 - 6:00 | 0 | | |

**Description:**

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Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

## Manatee Observation Log

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D 8:00-9:00 1 6-8 ft, swimming N toward Pier 1 Swimming N toward Pier 1

| | Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|---|
| D | 10:00 - 11:00 | 0 | — | — |
| ST | 11:00 - 12:00 | 0 | — | — |
| T | 12:00 - 1:00 | 0 | — | — |
| T | 1:00 - 2:00 | 0 | — | — |
| T | 2:00 - 3:00 | 0 | — | — |
| D | 3:00 - 4:00 | 0 | — | — |
| D | 5:00 - 6:00 | 0 | — | — |
| D | 11:00 - 5:00 | 0 | — | — |

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**Activity:**

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Direction of travel





Sat
2/19/22

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | / | / |
| 11:00 - 12:00 | 0 | / | / |
| 12:00 - 1:00 | 0 | / | / |
| 1:00 - 2:00 | 0 | / | / |
| 2:00 - 3:00 | 0 | / | / |
| 3:00 - 4:00 | 0 | / | / |
| 5:00 - 6:00 | 0 | / | / |

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Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

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Direction of travel





Sat
2/19/22

## Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | 1 | Seawall Between 4 and 5 | Resting |
| 2:00 – 3:00 | 1 | Seawall Between 2 and 3 | Resting (might be same) |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

# Manatee Observation Log

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| | Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|---|
| T | 10:00 - 11:00 | 0 | — | — |
| T | 11:00 - 12:00 | 1 | 6-8ft, heading north under bridge | alive, resting |
| T | 12:00 - 1:00 | 0 | — | — |
| D | 1:00 - 2:00 | 0 | — | — |
| D | 2:00 - 3:00 | 1 | 6-8ft, dark 2x3 | diving, alive, swimming |
| D | 3:00 - 4:00 | 1 | 6-8Ft, dark 1x2 | alive, surfacing |
| | 5:00 - 6:00 | 0 | — | — |
| | 4-5 | 0 | — | — |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

Alexis Hilbey

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | — | — |
| 11:00 - 12:00 | 1 (1:30) | West channel under bridge between Island & Museum Parks | diving down |
| 12:00 - 1:00 | 0 | — | — |
| 1:00 - 2:00 | 0 | — | — |
| 2:00 - 3:00 | 0 | — | — |
| 3:00 - 4:00 | 1 (3:30) | Pier 1 NEAR SEAWALL | eating sea grass |
| 5:00 - 6:00 | | | |

4 - 5

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Duong Dinh Sat 2/19/22

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 1 | Pier 2 → a few minutes under Pier 2 then heads North | Swimming north |
| 2:00 - 3:00 | 1 | Between Pier 1 - 2 | breathing / resting |
| 3:00 - 4:00 | 1 | Note on the back | |
| 5:00 - 6:00 | 0 | | |

2 Some notes in the back too!

4:00pm - 5:00pm (2 hrs.)

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

# Manatee Observation Log

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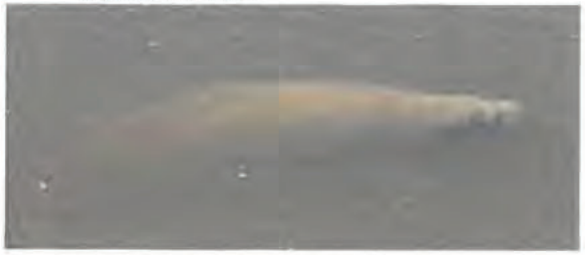
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 1 | middle of Arthur bridge ~5-6 ft | resting by wall 11:24 |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| 5:00 - 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

## Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air.** On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| 5:00 - 6:00 | 0 | | |

TTTQDSDD 4-5

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Bella Weimer

Sat
2/19/22

Jarrow

## Manatee Observation Log

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Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | no one | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | no one | | |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | no one | | |
| 4:00 – 5:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

# Manatee Observation Log

IP

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 1 | Between Pier 1 and 2 closer to sea wall | Popping up every 2-3 min in zone |
| 3:00 - 4:00 | 0 | | |
| ~~5:00 - 6:00~~ 5:00 - 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

Mykenzee

## Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 1 | Between 4-5 Juvenile 7-8 ft. | Foraging ~1:15-2:30 |
| 2:00 – 3:00 | " " | " " | Moving North |
| 3:00 – 4:00 | 1 | Between 2-3 | Foraging ~2:40-3:10 |
| 5:00 – 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat 2/19/22 Andrew Kuntz

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 1 | alive 7ft | cruising, Pier 1, South side |
| 1:00 - 2:00 | 0 | | close to pier 6 |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| 5:00 - 6:00 | 6 | | |

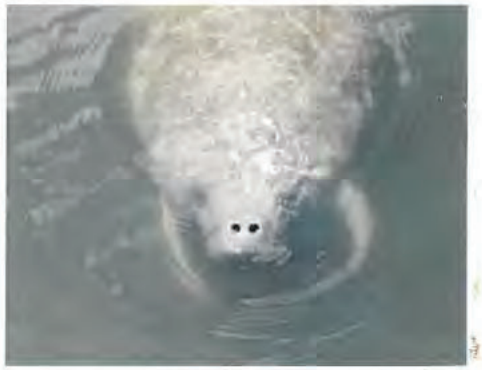
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Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

# Manatee Observation Log

**Tips for spotting manatees:**

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- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | Healed wht scar dorsal side Dock I | staying near dock |
| 11:00 - 12:00 | 1 | East side dock 1 | Breeching |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

4-5

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 8:00 - 10:00 | 1 | Off Pier 1 close to Seawall | Eating Sea grass |
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| ~~5:00 - 6:00~~ 4:00-5:00 | 0 | | |
| 5:00-6:00 (Sunset) | 0 | (Wall Cat) | |

**Description:**

Animal's condition - alive, entangled, injured, or dead

Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other

Direction of travel





Sat
2/19/22

## Manatee Observation Log

Carmyn Raposo

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- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | Alive, 9-10 ft, covered mangrove | Resting |
| 11:00 - 12:00 | 0 | N/A | N/A |
| 12:00 – 1:00 | 0 | N/A | N/A |
| 1:00 – 2:00 | 2 | Alive Size N/A Adult | heading out to sea, North → / between |
| 2:00 – 3:00 | 1 | Same observation Adult 10 feet | Between docks 4+5 Search for food |
| 3:00 – 4:00 | 2 | 8-10 feet, Alive, Adult/female | possible grazing, about 3-4 / Mer. I |
| 5:00 – 6:00 | 0 | N/A | N/A |
| | 0 | N/A | N/A |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | D | |
| 11:00 - 12:00 | 0 | D | |
| 12:00 – 1:00 | 0 | T | |
| 1:00 – 2:00 | 0 | T | |
| 2:00 – 3:00 | 0 | T | |
| 3:00 – 4:00 | 1 | alive, 9-16 ft, between docks 18, | possible feeding, swimming |
| 5:00 – 6:00 | 0 | D | |
| 4:00-5:00 | 0 | D | |

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Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

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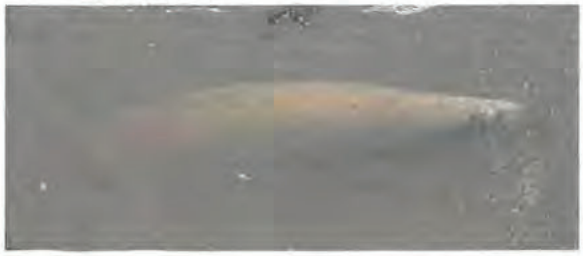
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|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 1 | Pier 4 15' young adult, alive | resting eating |
| 2:00 - 3:00 | 1 | Pier 3/4 | eating |
| 3:00 - 4:00 | 0 | Scattered | |
| 5:00 - 6:00 | 0 | | |

**Description:**

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Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

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Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | 1 | between 485 | snot rocket rolling, up/down, close to seawall |
| 2:00 – 3:00 | 1 | Part 4 Seawall | Surfacing on the 1 min |
| 3:00 – 4:00 | 0 | Shorview vessel | |
| 5:00 – 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

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Direction of travel





Sat
2/19/22

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | — | — |
| 11:00 - 12:00 | 0 | — | — |
| 12:00 – 1:00 | 0 | — | — |
| 1:00 – 2:00 | 0 | — | — |
| 2:00 – 3:00 | 0 | — | — |
| 3:00 – 4:00 | 1 | pier 1 6-8 ft | hanging out by boat surfacing every 2 min |
| 5:00 – 6:00 | 0 | — | — |
| 4:00-5:00 | 0 | — | — |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sat
2/19/22

Boat: Scout

## Manatee Observation Log

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Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

4-5 0 — —

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

## Manatee Observation Log

Nor Tech

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | None | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

## Manatee Observation Log

DUB

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air**. On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed. Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

## Manatee Observation Log

World Cat

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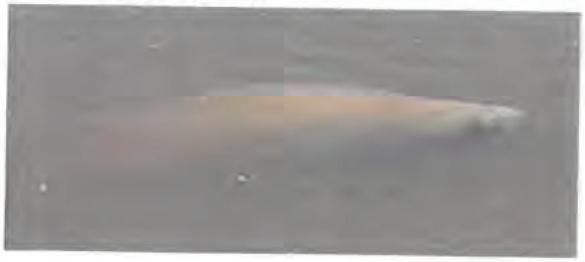
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

**Description:**

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Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

# Manatee Observation Log

Boston Whaler 170

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- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

Sea Trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | | | |
| 11:00 - 12:00 | | | |
| 12:00 – 1:00 | | | |
| 1:00 – 2:00 | | | |
| 2:00 – 3:00 | | | |
| 3:00 – 4:00 | | | |
| 5:00 – 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

# Manatee Observation Log

407
@11:00
Pier 4

**Tips for spotting manatees:**

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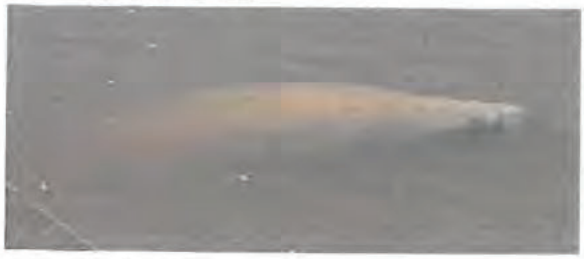
| Time<br>945a | Number manatee spotted? | Description and location of manatee(s):<br>between pier 4/5 | Manatee activity:<br>large scarred adult<br>forage behavior |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 2 | along seawall at marginal pier | 2 adult grazing foraging along seawall |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | 0 | | |
| 4:00-5:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





D - Dolic
T - Tonic

Sun
2/20/22

## Manatee Observation Log

**Tips for spotting manatees:**

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- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | under pier 3, close to seawall. 9-10 ft. | swimming North |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

## Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | — | | |
| 11:00 - 12:00 | — | | |
| 12:00 - 1:00 | Ø | | |
| 1:00 - 2:00 | — | | |
| 2:00 - 3:00 | — | | |
| 3:00 - 4:00 | Ø | | |
| 5:00 - 6:00 | — | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

## Manatee Observation Log

Valerie
Castro

Tips for spotting manatees:

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

# Manatee Observation Log

**Tips for spotting manatees:**

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | Docks | |
| 11:00 - 12:00 | 0 | DOCKS | |
| 12:00 - 1:00 | 0 | Docks | |
| 1:00 - 2:00 | - | Sea trial | |
| 2:00 - 3:00 | 0 | W taxi | |
| 3:00 - 4:00 | 0 | W taxi | |
| 4:00 - 5:00 | 0 | W taxi | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

# Manatee Observation Log

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| Time | Description and location of manatee(s): | Manatee activity: |
|---|---|---|
| 9:10 | 7-8ft | Swimming grazing moving N along Seawall |
| | mne | |
| | none | |
| | | |
| | | |
| | | |
| | | |
| | | |

Animal's condition - alive, entangled, injured, or dead
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Sun
2/20/22

# Manatee Observation Log

D

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Big, 8 feet Swimming

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| 5:00 - 6:00 | | | |

4-5

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

# Manatee Observation Log

Water
lax,

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|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| ~~5:00 – 6:00~~ | 0 | | |

0 0 0 1 1 0 4-5

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

# Manatee Observation Log

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | N/A | N/A |
| 11:00 - 12:00 | 0 | N/A | N/A |
| 12:00 – 1:00 | 0 | N/A | N/A |
| 1:00 – 2:00 | 0 | N/A | N/A |
| 2:00 – 3:00 | 0 | N/A | N/A |
| 3:00 – 4:00 | 0 | N/A | N/A |
| 5:00 – 6:00 | N/A | N/A | N/A |
| 4:00-5:00 | 0 | N/A | N/A |

**Description:**

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Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

(T)

Water Taxi

## Manatee Observation Log

Vessel: Glades

Cpt Preston

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | — | — | — |
| 11:00 - 12:00 | — | — | — |
| T* 12:00 - 1:00 | 0 | None | No activity |
| T* 1:00 - 2:00 | 0 | None | No activity |
| T* 2:00 - 3:00 | 0 | None | No activity |
| 3:00 - 4:00 | — | — | — |
| 4:00 - 5:00 | — | — | — |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





① Sun 2/20/22 Pier Walking

## Manatee Observation Log

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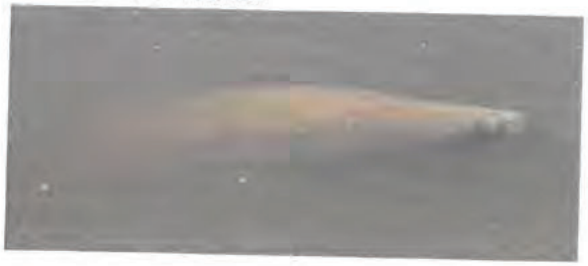
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | None | No activity |
| 11:00 - 12:00 | 0 | None | No activity |
| 12:00 - 1:00 | — | — | — |
| 1:00 - 2:00 | — | — | — |
| 2:00 - 3:00 | — | — | — |
| 3:00 - 4:00 | 0 | None | No activity |
| 4:00 - 5:00 | 0 | None | No activity |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

Vessel #:

## Manatee Observation Log

**Tips for spotting manatees:**

- Manatees can be up to 10 ft long and weigh up to 1,200 lbs. They have a large, bullet-shaped body that tapers to a large, spatula-shaped flat tail. Their skin is wrinkled and gray or gray-brown with little hair.
- Being a mammal, **manatees need to breath air**. On average, this occurs every 3 to 5 minutes unless the creature is sleeping, then it can be up to 20 minutes before a breath. **Only the snout breaks the water's surface, NOT the entire body.**
- While boating, watch the surface of the water for a snout, back, tail, or flipper. When a manatee is diving, it can create a swirl or an unusual flat spot on the water. **Look for body silhouettes (dark underwater).**
- Manatees are herbivores and can be found eating any aquatic vegetation, including seagrass. In the winter they will congregate in warmer waters near the shoreline and outfalls.
- Preferred habitats are often less than 6 ft deep. Avoid boating over seagrass beds and shallow areas. Manatee will still use deeper water areas for travel.
- When moving, manatees in general are slow and content in gliding along, but they can move at 20 mph if needed.

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | / | / |
| 11:00 - 12:00 | 0 | / | / |
| 12:00 - 1:00 | 0 | / | / |
| 1:00 - 2:00 | 0 | / | / |
| 2:00 - 3:00 | 0 | / | / |
| 3:00 - 4:00 | 0 | / | / |
| 4:00 - 5:00 | 0 | / | / |
| 5:00 - 6:00 | 0 | / | / |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

# Manatee Observation Log

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D 9:35a 1 Scar on back 6-5ft S of Pier 1 Seawall Moved N of pier 1 9:50a Resting → swimming N starting 9:50a

| | Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|---|
| D | 10:00 - 11:00 | 0 | — | — |
| D | 11:00 - 12:00 | 0 | — | — |
| D | 12:00 – 1:00 | 0 | — | — |
| ST | ~~1:00 – 2:00~~ 2:00-3:00 | 1 | Northside of ICW just east of Florida Explorer 7-8 ft | Swimming Location: Biscayne Light |
| D | ~~2:00 – 3:00~~ 1:00 - 2:00 | 0 | — | — |
| D | 3:00 – 4:00 | 0 | — | — |
| D | ~~5:00 – 6:00~~ 4:00-5:00 | 0 | — | — |

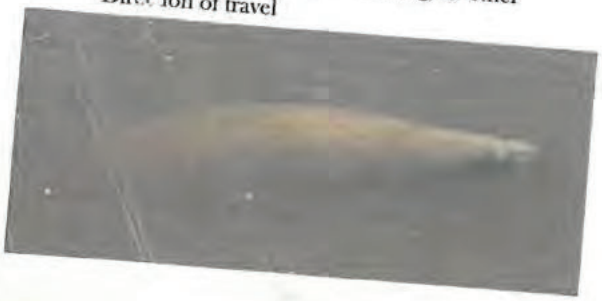
Vessel Name: Mercury Yellowfin
Slip: 321 (Pier 3)

**Description:**

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Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

1
IP

# Manatee Observation Log

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|---|---|---|---|---|
| D | 10:00 - 11:00 | 0 | | |
| D | 11:00 - 12:00 | 0 | | |
| D | 12:00 – 1:00 | 0 | | |
| D | 1:00 – 2:00 | 0 | | |
| D | 2:00 – 3:00 | 0 | | |
| D | 3:00 – 4:00 | 0 | | |
| D | ~~5:00 – 6:00~~ 4:00-5:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun 2/20/22

Jason R.

## Manatee Observation Log

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| | Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|---|
| Pier | 10:00 - 11:00 | 1 | Pier 5 9:34 emerged slowly | Swam then submerged. |
| T | 11:00 - 12:00 | 0 | | |
| T | 12:00 – 1:00 | 0 | | |
| P | 1:00 – 2:00 | 0 | | |
| Boat | 2:00 – 3:00 | 0 | | |
| Pier | 3:00 – 4:00 | 1 | Pier 1 north at of Manatee Bay | went up for air then went down |
| Pier | 5:00 – 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

Sea Trial 10:45 - 12:45 Pier 1 lot 22c

Sea Trial 3:30 - 4:30 Scout lot 31/2

# Manatee Observation Log

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ST = Sea trial

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| D 10:00 - 11:00 | 2 (9:40 – Pier 5 lot 512 – 8ft, lots of propeller scars; 9:55 – Outside marina near Pier 1 – 8ft) | | Swimming – Pier 5 → between 4 & 5 moving; Swimming – Outside pier 1 moving North |
| ST 11:00 - 12:00 | 0 | | |
| ST 12:00 - 1:00 | 0 | | |
| D 1:00 - 2:00 | 0 | | |
| D 2:00 - 3:00 | 0 | | |
| ST 3:00 - 4:00 (3:30 - 4:30) | 0 | | |
| D 4:00 - 5:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

# Manatee Observation Log

Tips for spotting manatees: eli 561 768 2836

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 1 | per 5.mid | came up & went under |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 1 | mama entrance | feeding out |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | 0 | | |
| 5T 4:00-5:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Belle Werner

Sun
2/20/22

## Manatee Observation Log

Kirsten Coleman

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| | Time<br>9:30 | Number manatee spotted? | Description and location of manatee(s):<br>Pier 5 Semi-sandbar | Manatee activity:<br>Chilling |
|---|---|---|---|---|
| b | 10:00 - 11:00 | 0 | | |
| b | 11:00 - 12:00 | 0 | | |
| b | 12:00 - 1:00 | 0 | | |
| d/b | 1:00 - 2:00 | 1 | Red 1 | swimming around |
| d | 2:00 - 3:00 | 0 | | |
| d | 3:00 - 4:00 | 0 | | |
| d | 5:00 - 6:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

# Manatee Observation Log

Duong Dinh

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+ 4:00 - 5:00pm : 0 manatee

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 1 | North side pier next the seawall | Swimming, moving out of marina |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | 0 | | |
| 5:00 - 6:00 | 0 | | |

9:30 - 10:30 pm - 1 manatee, moving north pier 2-3 then moving north out of marina
- Close to the seawall

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**Activity:**

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Direction of travel





Sun
2/20/22

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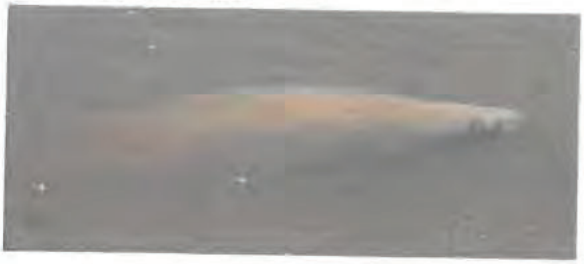
| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | 0 | | |
| 4:00-5:00 | 0 | | |

**Description:**

Animal's condition - alive, entangled, injured, or dead
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Type - feeding, resting, swimming, or other
Direction of travel





Sun
2/20/22

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D 11:00-11:10 1 pier 5 Mid Went under pier & swam

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | 0 | | |

T T T D D D

4:00-5:00 0

**Description:**

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Direction of travel





Sun
2/20/22

## Manatee Observation Log

Vessel #:

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| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | 0 | N/A | N/A |
| 11:00 - 12:00 | 0 | N/A | N/A |
| 12:00 - 1:00 | 0 | N/A | N/A |
| 1:00 - 2:00 | 0 | N/A | N/A |
| 2:00 - 3:00 | 0 | N/A | N/A |
| 3:00 - 4:00 | 0 | N/A | N/A |
| ~~5:00 - 6:00~~ 4:00 - 5:00 | 0 | N/A | N/A |
| ~~5:00 - 6:00~~ | | | |

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Sun
2/20/22

Cruiser 54C

## Manatee Observation Log

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Sea Trial

Pier 2 229 - marinemax

| Time | Number manatee spotted? | Description and location of manatee(s): | Manatee activity: |
|---|---|---|---|
| 10:00 - 11:00 | N/A | — | |
| 11:00 - 12:00 (11 - 12:30) | 0 | — | |
| 12:00 - 1:00 | 0 | | |
| 1:00 - 2:00 | 0 | | |
| 2:00 - 3:00 | 0 | | |
| 3:00 - 4:00 | N/A | | |
| 5:00 - 6:00 | N/A | | |

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**Activity:**

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Direction of travel





Sun
2/20/22

## Manatee Observation Log

43
3 Jupiter

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Sea Trial

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|---|---|---|---|
| 10:00 - 11:00 | 0 | | |
| 11:00 - 12:00 | 0 | | |
| 12:00 – 1:00 | 0 | | |
| 1:00 – 2:00 | 0 | | |
| 2:00 – 3:00 | 0 | | |
| 3:00 – 4:00 | 0 | | |
| 5:00 – 6:00 | 0 | | |

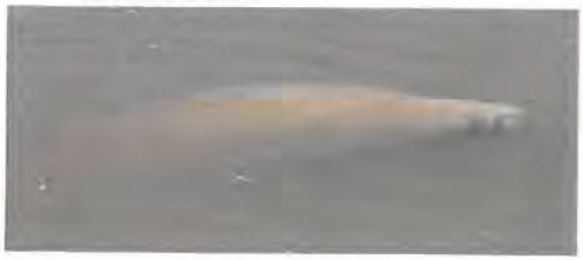
5

**Description:**

Animal's condition - alive, entangled, injured, or dead
Size - less than 5 ft, 6-8 ft, 9-10 ft, or greater than 10 ft

**Activity:**

Type - feeding, resting, swimming, or other
Direction of travel





## Appendix II. Manatee and Observer Photographic Images

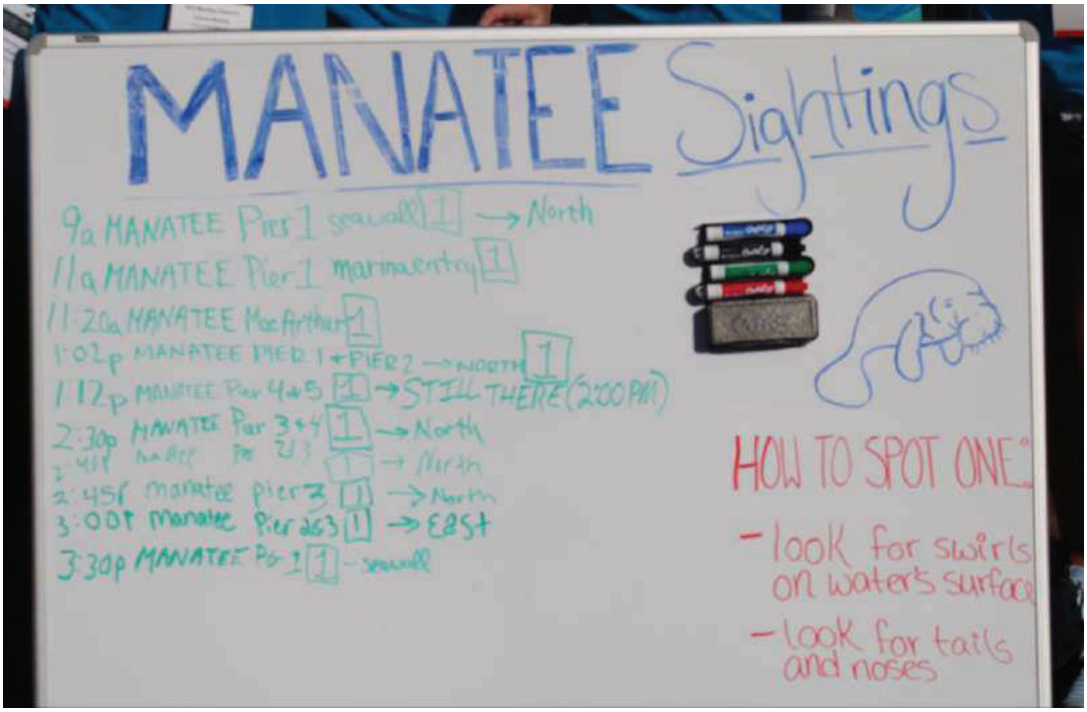



Figure 1. The manatee sighting whiteboard from Saturday, February 19th (Sierra Potts).

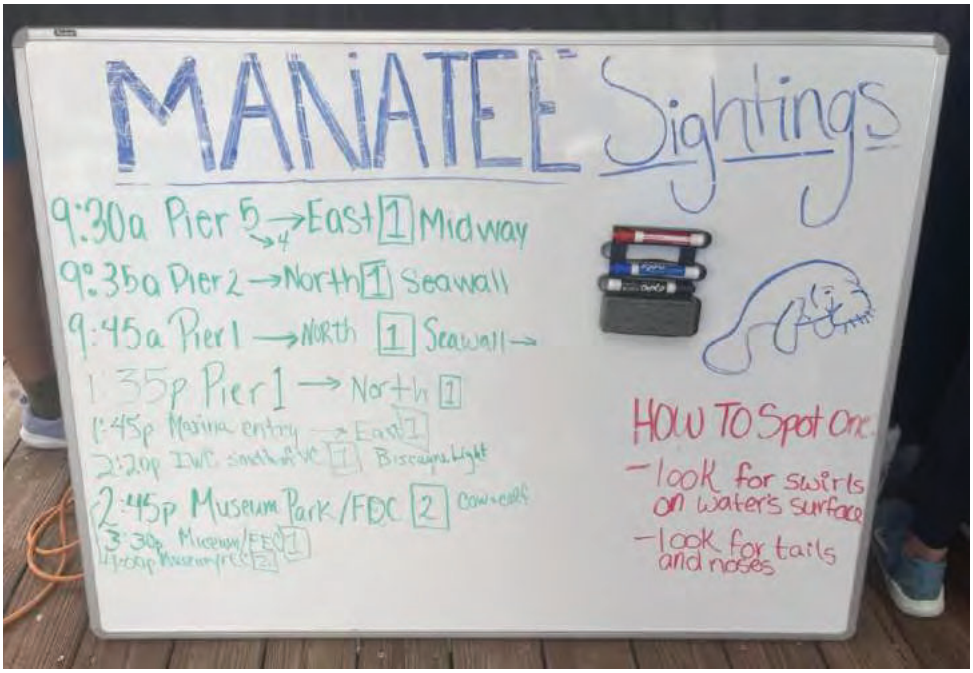



Figure 2. The manatee sighting whiteboard from Sunday, February 20 (Sierra Potts).



Figure 3. The tail of a manatee as it dives down into the water. The manatee has a scar on its right dorsal side (Steven Peterson).



Figure 4. A manatee with a large scar on their right dorsal side spotted on Sunday, February 20 (Tyler Jurain).



Figure 5. A manatee with an injured tailed spotted on Friday, February 18 (Pamela Gonzalez).



Figure 6. A manatee with a boat scar on its left dorsal side and a scar on its tail (Pamela Gonzalez).



Figure 7. A manatee taking a breath with only its snort out of the water spotted on Saturday, February 19 (Kaylee Czachorowski).



Figure 8. A manatee taking a breath with its snort and part of its dorsal side breaking the surface. This manatee was spotted between Pier 2 and 3 on Saturday, February 19 (Sierra Potts).



Figure 9. A manatee taking a breath with only its snort breaking the surface. This manatee was spotted off Pier 1 on Friday, February 19 (Sierra Potts).



Figure 10. A manatee taking a breath with only its snort breaking the surface. This manatee has boat scars across its dorsal side (Pamela Gonzalez).

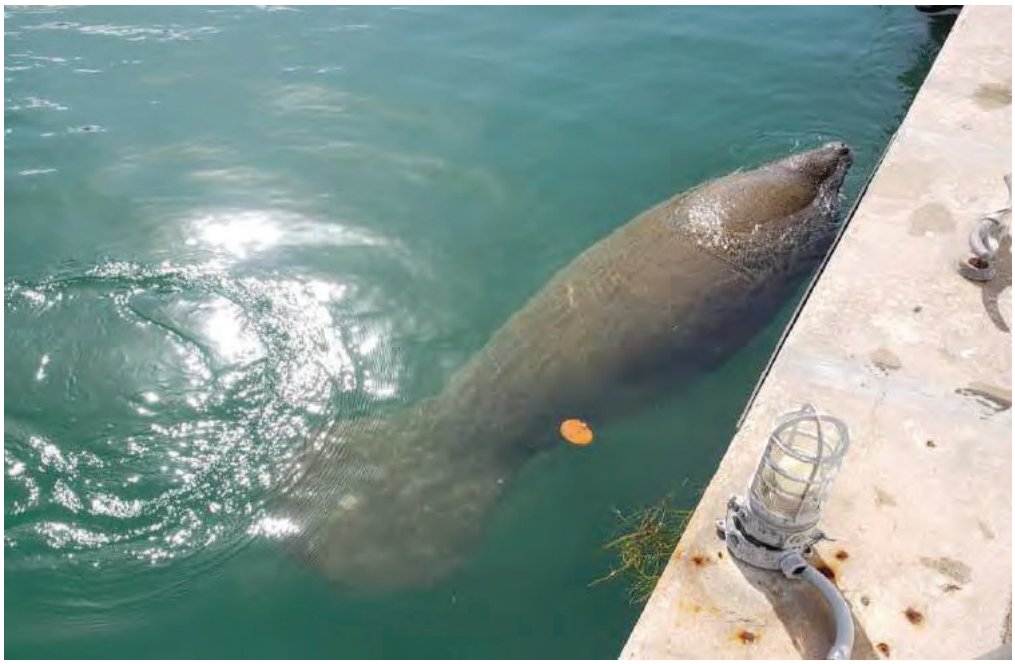


Figure 11. A manatee with its snort breaking the surface to breath. This manatee has a boat scar on its left dorsal side and a white spot on its tail (Heidi Hellenbrand).



Figure 12. A manatee with a boat scar on its left dorsal side and a white spot on its tail (Angelina Trapani-Banyra).



Figure 13. A manatee resting with its snort above the water, notice the algae on its back (Angelina Trapani-Banyra).

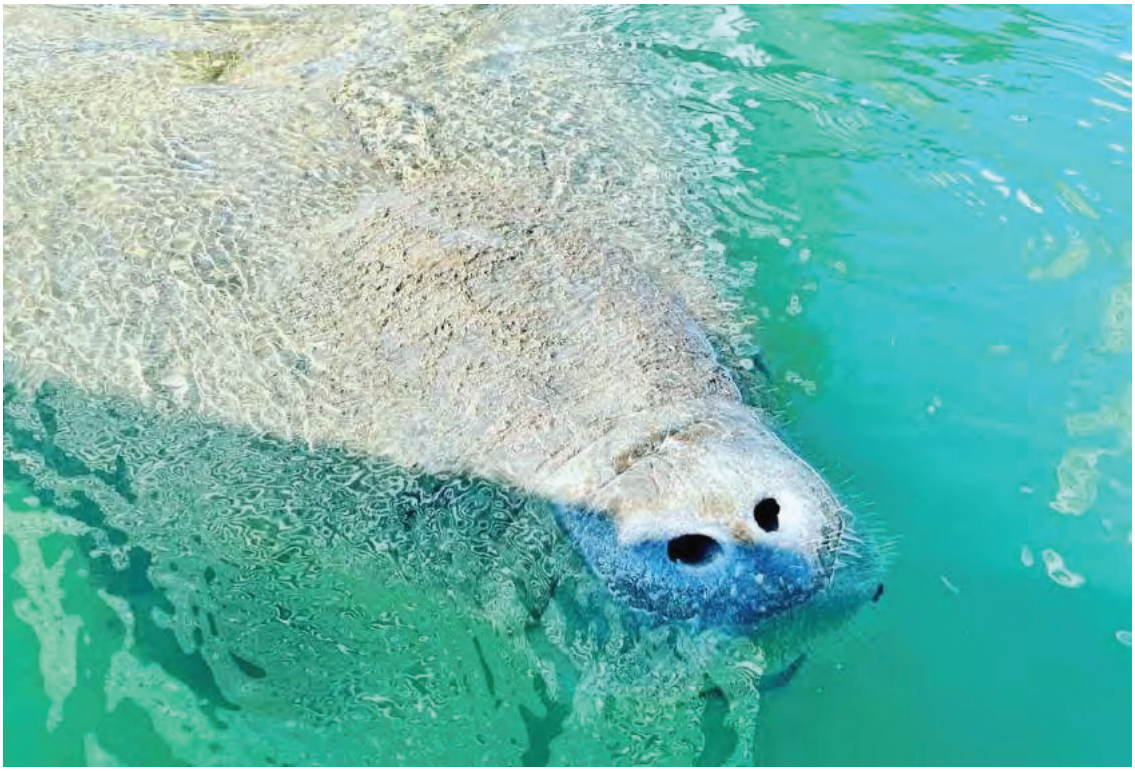


Figure 14. A manatee with its snort breaking the surface to breathe (Courtney White).



Figure 15. A manatee with its snort breaking the surface of the water to breath. This manatee has a boat scar on its back and a white spot on its tail (Angelina Trapani-Banyra).



Figure 16. A manatee with 4 boat scars and a large white scar on its dorsal side spotted on Sunday February 19 (Tyler Jurain).




Figure 17. Two Manatee Observers watching for manatees off Pier 1 (Sierra Potts).



Figure 18. Manatee Observers and Miami-Dade County Commissioner observing a manatee from the sea wall within Sea Isle Marina (Sierra Potts).



Figure 19. Vessel with Manatee Observer and Miami-Dade County Commissioner returning from sea trial (Sierra Potts).




Figure 20. Manatee observer aboard Sharrow vessel leaving marina for sea trial (Sierra Potts).

## Appendix III. Drone Photographic Images

Drone footage was provided by Thomas Byrne, Jr. of Drone Genius Aerial Media Services of Coral Gables, Florida. Three drones were deployed in the vicinity of Sea Isle Marina and Herald Plaza/Venetian Causeway during the February 16-20, 2022 MIBS sea trials. Still photographs of selected aerial footage provided by Drone Genius are included in this report if they contain an image of a manatee within the area. No day/time indicators were associated with these images.



Figure 21. A manatee spotted by a drone. A second drone in above the manatee. One of the manatee observers is watching the manatee. This manatee has a boat scar on its left dorsal side and a white spot on its tail.



Figure 22. A manatee spotted by a drone with a white spot on its tail.

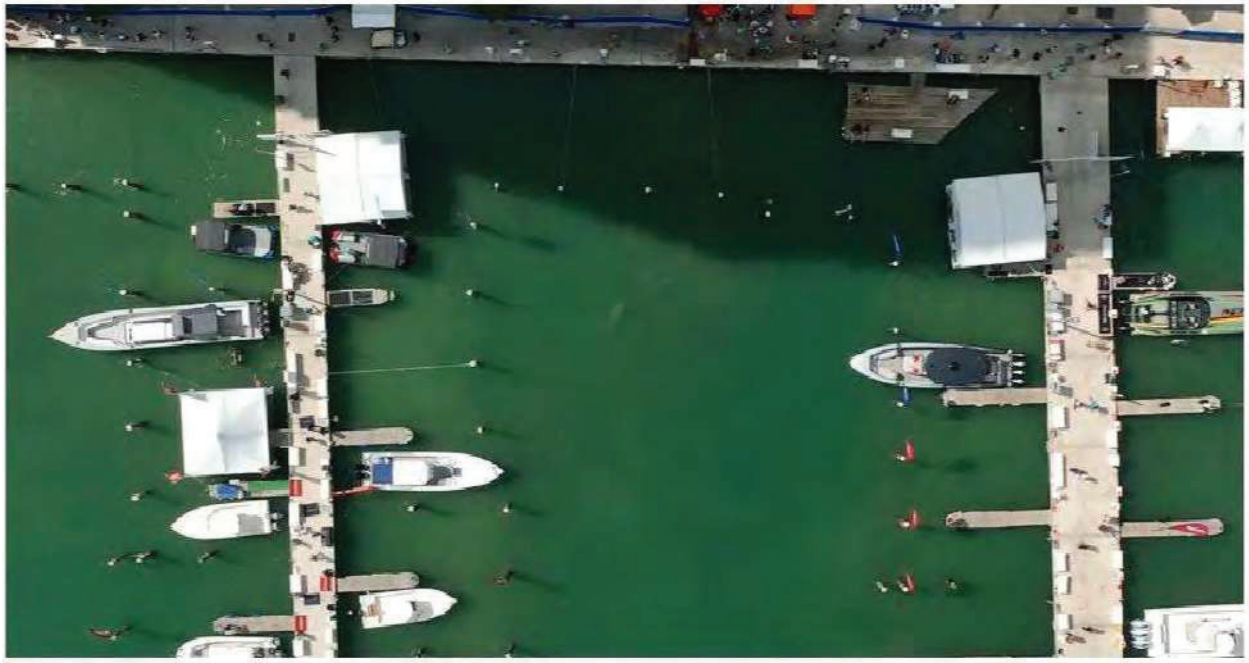


Figure 23. A manatee spotted by a drone between Pier 4 and 3.



Figure 24. A manatee spotted by a drone with a manatee observer watching it plus some patrons. This manatee has a boat scar on its left dorsal side and a white spot on its tail.

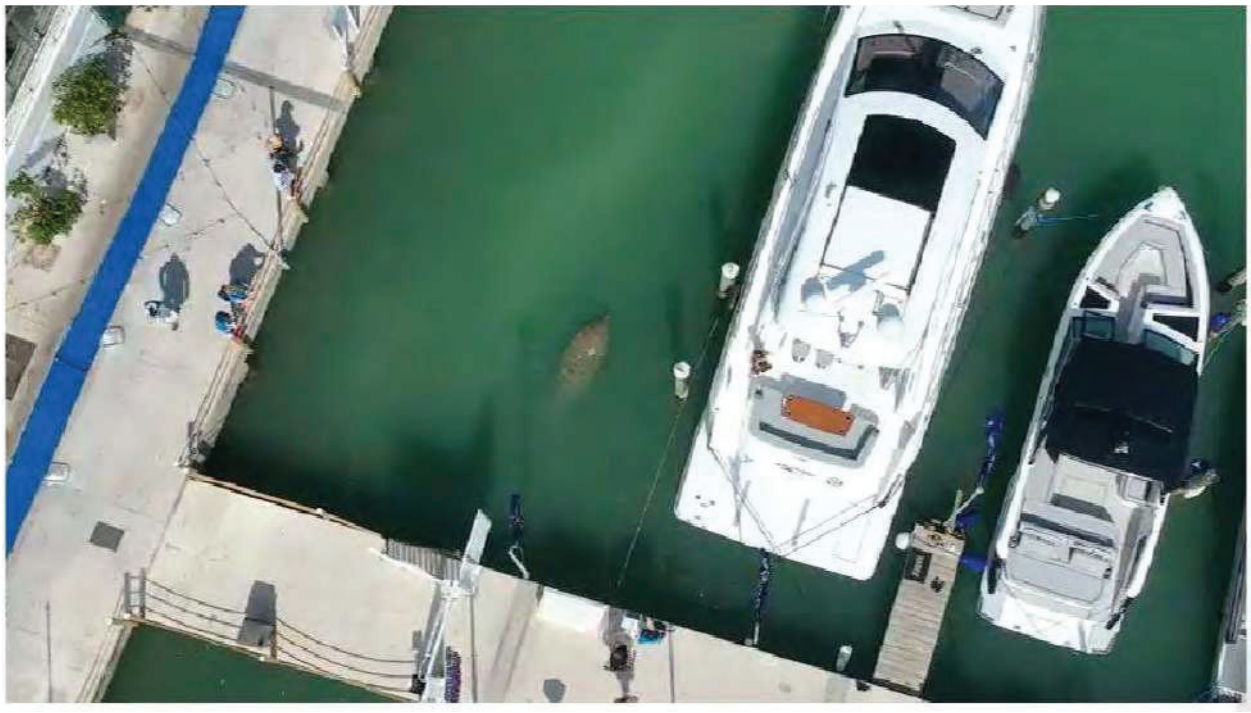


Figure 25. A manatee spotted by a drone near the seawall, north of Pier 2. Two manatee observers are watching the manatee and some patrons.

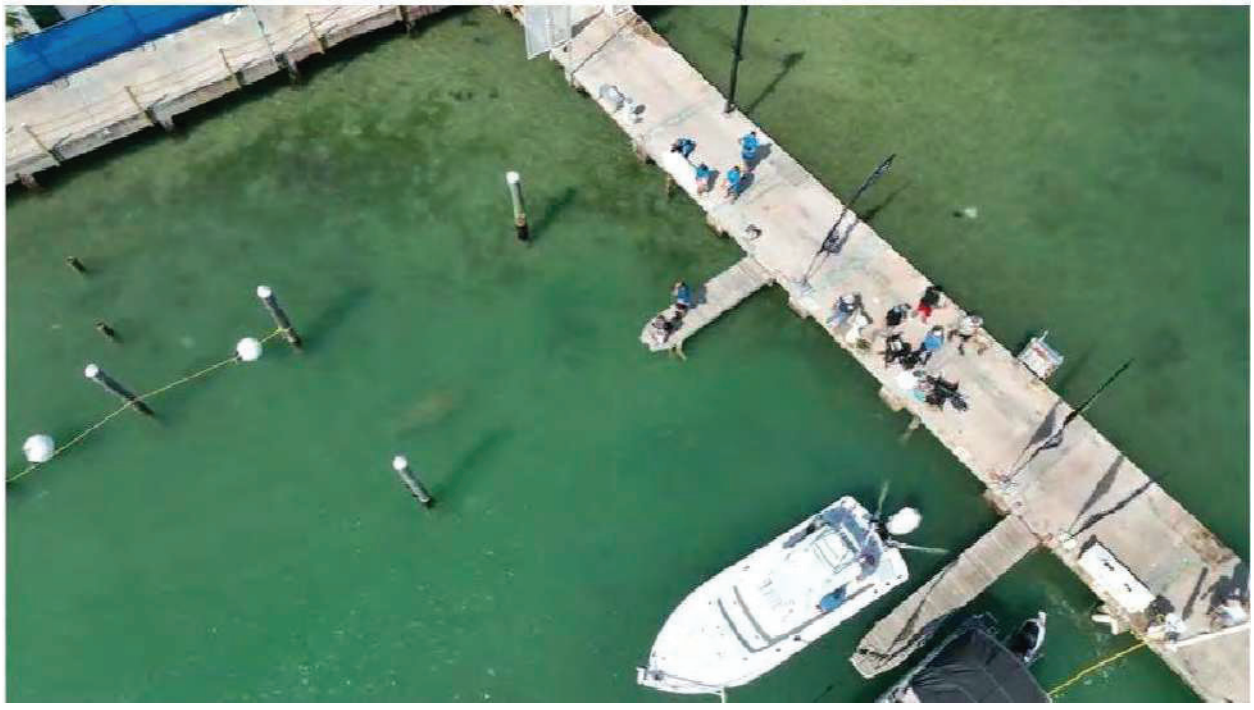


Figure 26. A manatee spotted by a drone near the seawall, south of Pier 1. Multiple manatee observers and patrons are watching the manatee.



Figure 27. A manatee spotted by a drone that is near the seawall. Two patrons are watching it.



Figure 28. A manatee spotted by a drone with a white spot on its tail.



Figure 29. A manatee spotted by a drone with a white spot on its tail.

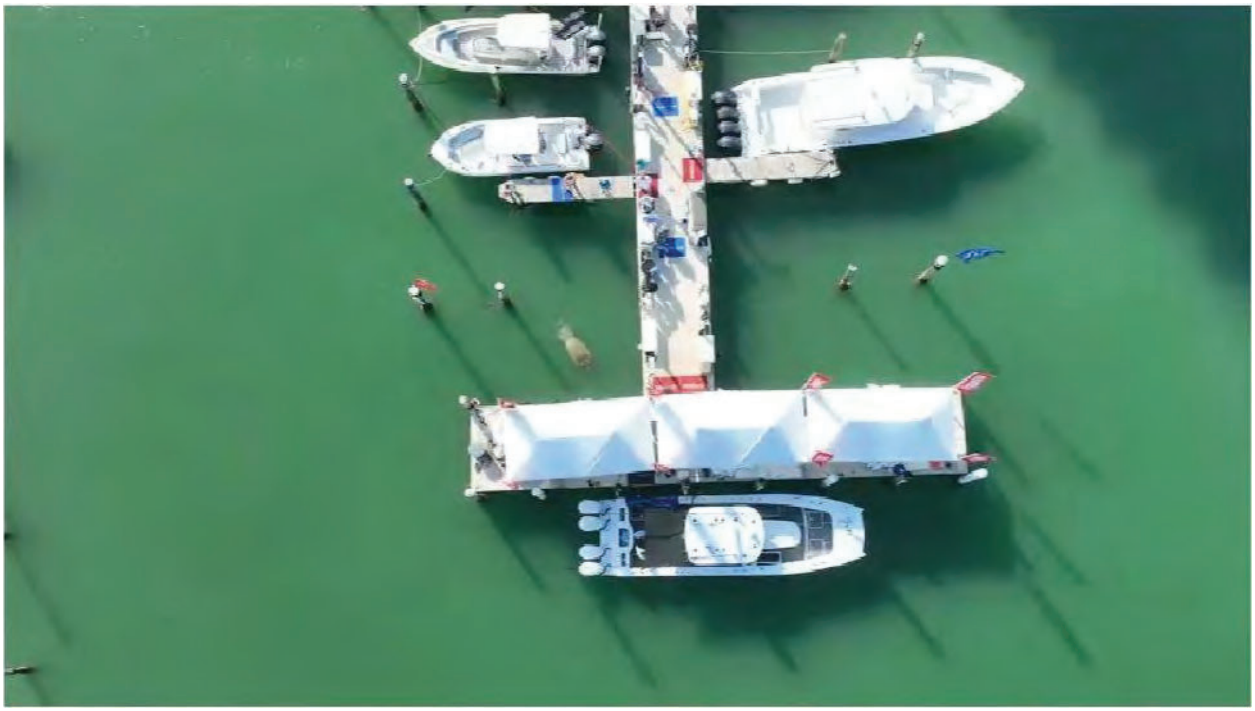


Figure 30. A manatee spotted by a drone at the end of one of the piers.



Figure 31. A manatee spotted by a drone north of Pier 1.

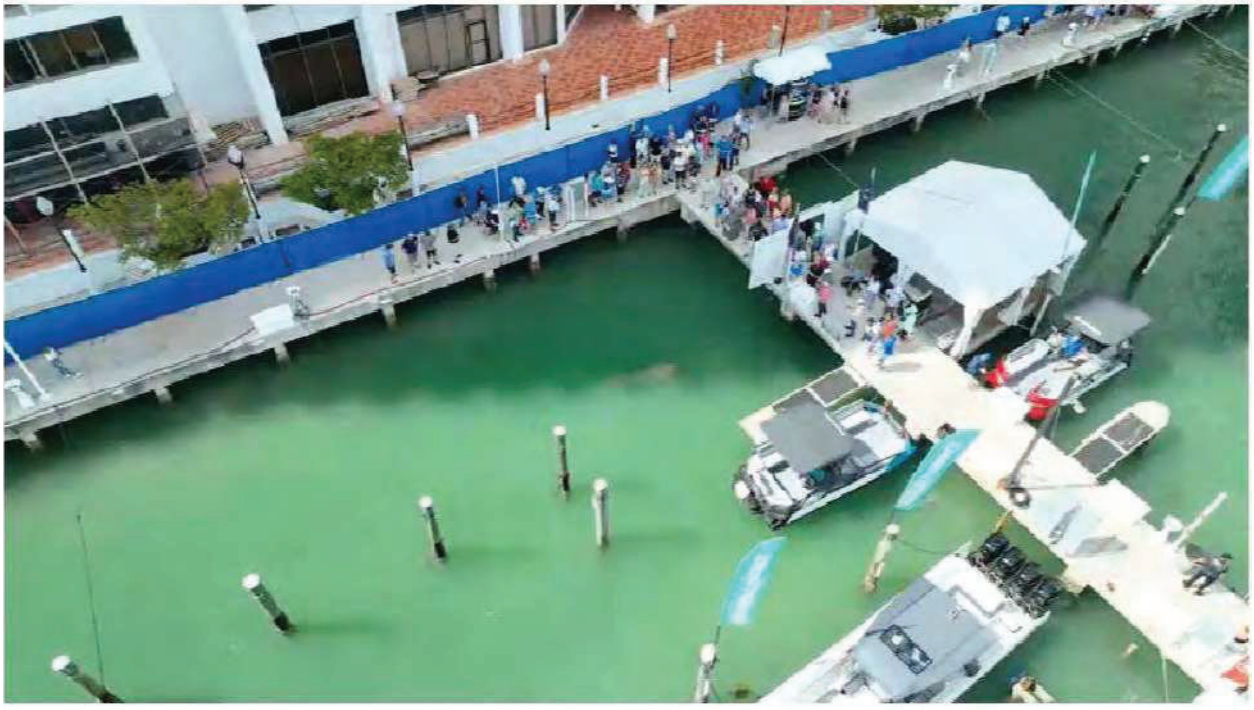


Figure 32. A manatee spotted by a drone south of Pier 4 near the seawall with manatee observers watching the manatee as well as many patrons.

# Attachment E

# Florida Department of Environmental Protection

# Permit No. 13-0361364-004-EM

# FLORIDA DEPARTMENT OF Environmental Protection

Southeast District Office
3301 Gun Club Road, MSC 7210-1
West Palm Beach, FL 33406
561-681-6600

**Ron DeSantis**
Governor

**Jeanette Nuñez**
Lt. Governor

**Shawn Hamilton**
Secretary

**Project Name:** Miami Yacht Show

**Permittee/Authorized Entity:**
Yachting Promotions, Inc.
c/o Richard Strul, Vice President
1115 NE 9th Avenue
Fort Lauderdale, FL 33304

City of Miami
c/o Arthur Noriega, City Manager
3500 Pan American Drive
Miami, FL 33133

**Authorized Agent:**
The Chappell Group, Inc.
c/o Tyler Chappell, Vice President
Email: tyler@thechappellgroup.com

**Environmental Resource Permit -** Granted

**State-owned Submerged Lands Authorization –** Granted

**U.S. Army Corps of Engineers Authorization – Separate Authorization Required**

**Permit No.:** 13-0361364-004-EM
**Lease File No.:** 130354426

**Permit Issuance Date: January 14, 2022**

**Permit Construction Phase Expiration Date: January 14, 2027**

**Consolidated Environmental Resource Permit and State-owned Submerged Lands Authorization**

**Permit No.:** 13-0361364-004-EM

## PROJECT LOCATION

The activities authorized by this Permit and state-owned submerged lands authorization are located within Biscayne Bay, within the Biscayne Bay Aquatic Preserve, Outstanding Florida Waters, Class III Waters, adjacent to 1 Herald Plaza and 1635 and 1737 North Bayshore Drive, Miami (Section 31, Township 53 South, Range 42 East), in Miami-Dade County (Latitude N 25° 47' 23.94", Longitude W 80° 11' 2.26").

## PROJECT DESCRIPTION

This application consists of a modification of the previously authorized annual construction for the Miami Yacht Show. The modification consists of increasing the temporary floating dock square footage at the Sea Isle Marina and Miami Genting location of the show from 229,120 sq. ft. to 248,000 sq. ft., increasing the temporary number of slips at the Sea Isle Marina and Miami Genting location of the show from 634 to 650 slips, and installing one (1) 35 ft. by 130 ft. temporary steel wave attenuation barge and thirty three (33) 10 ft. by 40 ft. temporary floating steel wave attenuators. No increase in the sovereign submerged lands lease boundary is proposed. This modification also includes an amendment to Specific Condition No. 21 to allow for test driving of vessels (sea trials) associated with the boat show from the Sea Isle Marina for the 150 existing slips. The sea trials shall utilize the sea trial route along the south side of Dodge Island and out into the Atlantic Ocean via Fisherman's Channel only. No alternative routes are authorized. The installation of structures, the event, and the removal of the structures will not exceed 45 days.

The submerged bottom at the project site consists of sand, rock, coral, sponges, and submerged grassbeds. This permit does not anticipate any adverse temporary or permanent impacts to the existing submerged grassbeds or any impacts to mangroves, wetland vegetation, or other submerged resources located within the project boundaries; therefore, this permit does not authorize permanent impacts to these resources. Mitigation is not required.

The attached standard manatee conditions (version 2011) shall be adhered to during all in-water work. Prior to construction commencement, weighted floating turbidity curtains, extending to within one-foot from the submerged bottom shall be utilized around the project area to ensure that any turbidity resulting from construction activities will be contained within the project boundaries. All water bodies, including any adjacent submerged aquatic vegetation outside the specific limits of construction authorized by this permit shall be protected from erosion, siltation, sedimentation, and/or scouring.

## AUTHORIZATIONS

Environmental Resource Permit

The Department has determined that the activity qualifies for an Environmental Resource Permit. Therefore, the Environmental Resource Permit is hereby granted, pursuant to Part IV of Chapter 373, Florida Statutes (F.S.), and Chapter 62-330, Florida Administrative Code (F.A.C.).

Sovereignty Submerged Lands Authorization

The activity is located on sovereignty submerged lands owned by the State of Florida. It therefore also requires authorization from the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees), pursuant to Article X, Section 11 of the Florida Constitution, and Section 253.77, F.S., and Chapter 258, F.S.

Your project will occur on sovereignty, submerged land and will require authorization from the Board of Trustees to use public property. As staff to the Board of Trustees, we have reviewed the proposed project and have determined that, as long as they are located within the described boundaries of Sovereignty Submerged Lands lease No. 130354426 and is consistent the attached general consent conditions, no further authorization from the Board of Trustees is required.

Federal Authorization

Your proposed activity as outlined on your application and attached drawings **does not qualify** for Federal authorization pursuant to the State Programmatic General Permit and a **SEPARATE permit** or authorization **shall be required** from the Corps. You must apply separately to the Corps using their APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT, ENG FORM 4345, or alternative as allowed by their regulations. More information on Corps permitting may be found online in the Jacksonville District Regulatory Division Source Book at: https://www.saj.usace.army.mil/Missions/Regulatory/Source-Book.

Authority for review - an agreement with the USACOE entitled "Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection (or Duly Authorized Designee), State Programmatic General Permit", Section 10 of the Rivers and Harbor Act of 1899, and Section 404 of the Clean Water Act.

Coastal Zone Management

Issuance of this authorization also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act.

Water Quality Certification

This permit also constitutes a water quality certification under Section 401 of the Clean Water Act, 33 U.S.C. 1341.

Other Authorizations

You are advised that authorizations or permits for this activity may be required by other federal, state, regional, or local entities including but not limited to local governments or municipalities. This permit does not relieve you from the requirements to obtain all other required permits or authorizations.

The activity described may be conducted only in accordance with the terms, conditions and attachments contained in this document. Issuance and granting of the permit and authorizations herein do not infer, nor guarantee, nor imply that future permits, authorizations, or modifications will be granted by the Department.

PERMIT & SOVEREIGNTY SUBMERGED LANDS CONDITIONS

The activities described must be conducted in accordance with:

- **The Specific Conditions**

- **The General Conditions**
- **The limits, conditions and locations of work shown in the attached drawings**
- **The term limits of this authorization**

You are advised to read and understand these conditions and drawings prior to beginning the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings herein. If you are using a contractor, the contractor also should read and understand these conditions and drawings prior to beginning any activity. Failure to comply with these conditions, including any mitigation requirements, shall be grounds for the Department to revoke the permit and authorization and to take appropriate enforcement action.

Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and this permit and sovereignty submerged lands authorization, as described.

**SPECIFIC CONDITIONS- PROJECT FORMS & ATTACHMENTS**

(1) The attached project drawings (sheets 1 through 6); Miami International Boat Show Manatee Protection Plan (sheets 1 through 18), the Standard Manatee Conditions for In-Water Work, 2011; and DEP forms 62-330.310(1); 62-330.310(2); 62-330.340(1); and 62-330.350(1), which may be downloaded at http://www.dep.state.fl.us/water/wetlands/erp/forms.htm become part of this permit. If the permittee does not have access to the Internet, please contact the Department at (561) 681-6600 to request the aforementioned forms and/or document(s).

**SPECIFIC CONDITIONS - PRIOR TO CONSTRUCTION**

(2) After selection of the contractor to perform the authorized activities and prior to the initiation of any work authorized by this permit, the permittee (or authorized agent) and the contractor shall attend a pre-construction conference with a representative of the Department. It shall be the responsibility of the permittee to contact the Department's Compliance Assistance Program, by email SED_Compliance@FloridaDEP.gov, or by phone (561) 681-6600, to schedule the pre-construction conference.

(3) Prior to the initiation of any work authorized by this permit, floating turbidity curtains with weighted skirts that extend to within one foot of the bottom shall be placed around the project site, and shall be maintained and remain in place for the duration of the project construction to ensure that turbid discharges do not occur outside the boundaries of the floating turbidity screens. The permittee shall be responsible for ensuring that turbidity control devices are inspected daily and maintained in good working order during all phases of construction authorized by this permit until all areas that were disturbed during construction are sufficiently stabilized to prevent turbid discharges.

**SPECIFIC CONDITIONS – CONSTRUCTION ACTIVITIES**

(4) The permittee shall notify the Department of the location of the temporary material staging areas prior to the staging of the floating dock structures and construction equipment. All storage or stockpiling of tools or materials (i.e. lumber, pilings, etc.) shall be limited to uplands or within the impact areas authorized by this project.

(5) All temporary pilings shall be driven in place for the installation of the facility. All temporary pilings shall be pulled out during the facility breakdown. Placement and/or removal of the pilings done by any other method is specifically not authorized by this permit.

(6) Dredging is specifically not authorized by this permit.

(7) All watercraft associated with the construction of the permitted structure and the associated permitted activity shall only operate within waters of sufficient depth (one-foot clearance from the deepest draft of the vessel to the submerged bottom or any submerged aquatic resources at mean low water) so as to preclude bottom scouring, prop dredging, and damage to seagrasses.

(8) All dock structures and vessels shall be contained within the boundaries of the leased premises and no portion of a vessel, including all parts and accessories such as outboard motors, bow pulpits, and swim platforms may extend beyond the leased premises. Modifications to the layout of the structures and vessels within the boundaries of the leased premises will be allowed; provided however, that on an annual basis the Lessee shall be required to provide the final layout to the State of Florida Department of Environmental Protection, Southeast District Office no later than 24 hours prior to the boat show's opening day. Any proposed changes to the layout which would alter or expand the boundaries of the leased premises shall require a permit modification and sovereign submerged lands lease modification, which shall be submitted, in the form of an application, to the Southeast District Office no later than 60 days prior to commencement of construction.

(9) The permittee shall conduct pre-event and post-event seagrass surveys within 30 days prior to the event and 30 days following the event respectively. The pre- and post-seagrass surveys and report shall be submitted to the Department within 45 days after the breakdown of the show. In addition, the permittee shall submit a third seagrass survey conducted in the middle of the growing season (May through August) to provide an accurate representation of the seagrass habitat at the boat show site, and submitted to the Department within 30 days of the date of the survey. If the post-event seagrass survey or summer seagrass survey indicate that there was direct damage to seagrass as a result of boat show activities (eg. prop dredging, annual pile installation and removal), mitigation may be required. The permittee shall coordinate with the Southeast District Office and submit a mitigation plan to the Department for review and approval within 60 days of the breakdown of the show.

(10) There shall be no fish cleaning stations, boat repair facilities, or fueling facilities on any structure that is over the water.

(11) There shall be no restroom facilities installed or operated on the docking facilities authorized in this permit. The boat show shall be served by upland restroom facilities which are designated and operated in accordance with the requirements of the appropriate county and state health agencies.

(12) This permit authorizes temporary live-a-boards for the vessels' crews during the boat show for safety purposes only. The vessels that house the crews as temporary live-a-boards shall have sufficient wastewater holding tank capacity to accommodate overnight usage without having to discharge for the duration of the boat show.

(13) Vessel sewage pump-out facilities are not authorized at the boat shows and the lessee shall notify all slip occupants in writing of the availability and requirement to use the sanitary facilities provided on the uplands. The discharge of marine toilets from vessels moored at the boat show is prohibited.

**SPECIFIC CONDITIONS – MONITORING/REPORTING REQUIREMENTS**

(14) Turbidity levels outside the construction area shall not exceed 0 NTU's above background levels. The following measures shall be taken immediately by the permittee whenever turbidity levels within waters of the State surrounding the project site exceed ambient turbidity levels of the surrounding Outstanding Florida Waters:

a. Notify the Department at (561) 681-6600 or SED.ERPcompliance@dep.state.fl.us at the time the violation is first detected.
b. Immediately cease all work contributing to the water quality violation.
c. Stabilize all exposed soils contributing to the violation. Modify the work procedures that were responsible for the violation, install more turbidity containment devices, and repair any non-functional turbidity containment devices.
d. As required, perform turbidity monitoring per Specific Conditions.
e. Resume construction activities once turbidity levels outside turbidity curtains fall below background levels

(15) Water turbidity levels shall be monitored if a turbidity plume is observed outside the limits of the required turbidity control devices. Samples shall be taken every four hours until turbidity subsides at one foot above the bottom, mid-depth, and one-foot below the surface at monitoring stations located as follows:

a. Approximately 100 feet up-current of the work sites and clearly outside the influence of construction activities. (This shall serve as the natural background sample against which other turbidity readings shall be compared.)
b. Directly outside the turbidity curtains surrounding the work sites and within the densest portion of any visible turbidity plume. (This sample shall serve as the compliance sample.)

(16) During dock construction activities, the permittee or permittee's contractor shall collect the following turbidity monitoring data at the frequency and water depths directed by the Specific Condition above:

a. Date and time of sampling event
b. Turbidity sampling results (background NTUs, compliance NTUs, and the difference between them)
c. Description of data collection methods
d. An aerial map indicating the sampling locations
e. Depth of sample(s)
f. Weather conditions at times of sampling
g. Tidal stage and direction of flow

Data shall be collected in a turbidity log and shall include a statement by the individual responsible for implementation of the sampling program attesting to the authenticity, precision, limits of detection, and accuracy of the data. The turbidity log shall be scanned and sent on a weekly basis

to the ERP Compliance Assurance Program via email at SEDERP@floridadep.gov. The subject line of the email shall include the project name, permit number, and the title "Turbidity Monitoring Reports."

(17) Narrative progress reports shall be submitted within 45 days after the breakdown of the facility, on an annual basis to the Department indicating the annual status of the shows. The cover page shall indicate the permit number, project name, and the permittee name. The first report shall be submitted within 45 days after the breakdown of the facility and reports shall continue to be submitted on an annual basis as described above. The reports shall be submitted to SEDERP@floridadep.gov and shall include the following information:

a. Dates of the show; dates of installation and breakdown of the facility;
b. Turbidity monitoring information;
c. Seagrass survey and report;
d. Any proposed or anticipated changes for next year's show; and
e. This report shall include, on the first page just below the title, the certification of the following statement by the individual who supervised preparation of the report: "This report represents a true and accurate description of the activities conducted during the annual period covered by this report."

**SPECIFIC CONDITIONS – OPERATION AND MAINTENANCE ACTIVITIES**

(18) The following activities are prohibited at the facility:

a. boat maintenance or repair activities requiring removal of a vessel from the water or removal of any major portions of the vessel, including the engine, for purposes of routine repair or maintenance on site;
b. hull cleaning involving the scraping or jet washing of fouling organisms;
c. hull painting;
d. any discharges or release of oils or greases associated with engine and hydraulic repairs; or
e. any discharges or release of metal based bottom paints associated with hull scraping, cleaning, and painting.

(19) The following activities are authorized at the facility:

a. removal of a vessel that is necessitated by emergency conditions which have resulted in or can result in the sinking of a vessel; or
b. minor repairs and boat maintenance that will not cause or contribute to the release of water pollutants (these activities must be performed by the vessel's owner or qualified marine mechanics).

(20) The permittee shall remove all debris, detritus, and oil residue from the water body before, during, and after the boat show in accordance with all applicable federal, state, and local regulations.

(21) Test driving of vessels (demonstration rides) associated with the boat show is limited to 150 vessels at the Sea Isle Marina for the February 2022 event only. The sea trials shall utilize the sea trial route along the south side of Dodge Island out into the Atlantic Ocean via Fisherman's Channel only, as depicted in the attached "Miami International Boat Show Manatee Protection Plan". No alternative routes are authorized.

(22) The scheduled dates for the Miami Yacht Show are provided in the original permit (13-0361364-001-EI). Dock and piling installation shall commence two weeks prior to the start of the show. Temporary mooring of the approximate 650 display vessels for the show shall commence one week prior to the start of the show. Docks and pilings shall be removed one week after the last day of the show. Construction activities associated with the Yacht Show, from start to finish, shall not exceed 45 days.

(23) If the permittee proposes to deviate from the scheduled dates or from the permitted design of any of the temporary docking facilities, a request to modify the permit must be submitted to the Submerged Lands & Environmental Resources Program -Southeast District at least 90 days prior to the intended date of use. If the permittee proposes to increase the square footage of the lease boundary, a request to modify the permit must be submitted to the Submerged Lands & Environmental Resources Program -Southeast District at least 180 days prior to the intended date of use of the project and shall be required to be reviewed by the Board of Trustees (BOT).

(24) A renewal request for this permit shall be submitted to the Submerged Lands & Environmental Resource Program - Southeast District at least 60 days prior to the expiration date, regardless of whether or not any changes to temporary structures or designs have been made.

**SPECIFIC CONDITIONS – MANATEE CONDITIONS**

(25) At the Sea Isle Marina and Miami Genting (1 Herald Plaza, Miami) location, the total number of boats, inclusive of all mooring and upland storage, shall be limited to 650 slips.

(26) The number of sea trial vessels shall be limited to 150 vessels at the Sea Isle Marina only.

(27) The sea trials shall utilize the sea trial route along the south side of Dodge Island out into the Atlantic Ocean via Fisherman's Channel only. No alternative routes are authorized. Please reference the Sea Trial Route Map with the authorized route highlighted with a yellow box.

(28) Sea trials are authorized at the Sea Isle Marina for the 2022 February event only. All future sea trials associated with this permit shall be relocated to an area not classified as essential manatee habitat per the Miami-Dade Board of County Commissioners. An FWC approved Manatee Protection Plan shall be obtained by the applicant.

(29) All Miami Yacht Show activities, including but not limited to set up, breakdown, and sea trials, shall adhere to the "Miami International Boat Show Manatee Protection Plan" submitted January 7, 2022.

(30) All Miami Yacht Show activities, including boat load in, load out, and sea trials, shall adhere to all posted speed zones.

(31) All injuries or entanglements of manatees or marine turtles shall be reported immediately to the FWC at 888-404-3922.

a. Details of the incident shall be sent to the FWC at ImperiledSpecies@MyFWC.com within 24 hours. Information shall include, but not be limited to: a narrative of the

incident, photographs/videos of the incident and surrounding environment (if possible), a GPS point where the animal was discovered, names, titles and contact numbers of all personnel onsite at the time of the incident, locations of the marine observers when the incident occurred, and the name, title, and contact number for the designated Port Authority representative. Additional information may be requested by the FWC and telephone interviews may be required.

b. Preliminary assessments of the incident information by the FWC and the Department may require that work temporarily cease upon notification, and not resume until FWC staff can confirm that all permit conditions are being appropriately implemented. If needed, the FWC will provide the Department and the Permittee with any additional protection measures necessary to minimize future risks to protected marine species. The Department will add any such protection measures to the permit through an administrative modification.

(32) A final report summarizing all sea trial and manatee logs shall be sent to the FWC at ImperiledSpecies@MyFWC.com no later than 30 days after demobilization of the event. The report shall include event name, permit number, names of observers and their contact information, number of sea trials performed, and any non-compliance actions.

a. All observers shall maintain a daily log that details sightings, collisions, or injuries to protected marine species (manatees, marine turtles, dolphins, etc.). The logs shall also include the following project specific information: work itinerary, weather, work shut down times, and observer shift changes. In regard to manatee behavior, the observers shall also log the following: time of observation, duration of sightings, estimated distance of animal from the vessel, animal behavior during the sighting (such as passing through, pausing in the vicinity of the project, interacting with the work-related vessels, or attracted to running or dripping water), detection method, whether the vessel was operating at time of observation, and actions taken as a result of the sighting, collisions or injuries.

**Construction**

(33) The Standard Manatee Conditions for In-water Work (2011) shall be followed for all in-water activity.

(34) In order to document the potential impacts of the Miami Yacht Show, three seagrass surveys will be conducted. Within one month prior to the installation of temporary structures, a pre-show survey will be conducted and within one month after the breakdown of the show, a post-show survey will be conducted. The third survey, the summer seagrass survey, is required to be conducted during the growing season between 1 June and 30 September each year. The summer survey must accurately represent seagrass habitat and record any observed impacts that may have occurred during the boat show event. In the event that impacts associated with boat show activities are identified, the permittee is required to submit compensatory mitigation plan to USACOE, FDEP, FWC, and Miami-Dade County Department of Environmental Resource Management (DERM).

(35) A minimum of 4 feet of clearance at mean low water between the vessels and the substrate shall be maintained at all times.

(36) The permittee shall install at least six temporary manatee educational signs, such as the "Florida Friendly Boating" sign, to inform the boating public of the habitat and behavior of manatees and of the dangers boats can pose to them. The signs shall be positioned to be visible to people attending the event, and installed in areas of high attendee foot traffic. The signs shall be installed prior to the beginning of the show and remain in place until after the show has finished. Additional information about signs and where they can be obtained can be found at: https://myfwc.com/wildlifehabitats/wildlife/manatee/education-for-marinas/. Any questions regarding this requirement can be sent to ImperiledSpecies@MyFWC.com.

(37) If pile driving will be used for any concrete piles equal to or greater than 13 inches:

a. At least one dedicated observer shall be present during pile driving activities and shall perform no other duties that may interfere with their ability to observe for protected marine species. Observer(s) must have prior on-the-job experience observing manatees during dredging projects or in-water work where the activities were similar in nature to this project. Observer(s) shall have the authority to cease project operations 1) upon sighting a manatee within 50 feet of the pile driving or vessel activity; and 2) if detection of manatees is not possible due to weather or other conditions.

b. All pile driving activities shall be limited to daylight hours in order to maximize visibility for protected species observers. Monitoring shall occur for 30 minutes prior to, during, and for 30 minutes after pile driving ends.

c. During pile driving, the project will utilize a ramp-up measure. At the start of pile driving activity, pile driving hammers would initially be operated at low levels, then gradually increase to minimum necessary power required for pile installation.

d. If the activities appear to harass or injure a protected marine species, then work shall cease immediately and not resume until after consultation with the Florida Fish and Wildlife Conservation Commission (ImperiledSpecies@myfwc.com or 850-922-4330). Any additional conservation measures deemed necessary by FWC must be implemented to minimize the risks to protected species.

**SPECIFIC CONDITIONS – LISTED SPECIES**

(38) This permit does not authorize the permittee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of "take" and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a "take" permit cannot be issued. Requests for further information or review can be sent to FWCConservationPlanningServices@MyFWC.com.

**GENERAL CONDITIONS FOR INDIVIDUAL PERMITS**

The following general conditions are binding on all individual permits issued under chapter 62-330, F.A.C., except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate project-specific conditions.

(1) All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

(2) A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

(3) Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

(4) At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," [October 1, 2013], which is incorporated by reference in paragraph 62-330.350(1)(d), F.A.C., indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.

(5) Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.

(6) Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:

a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex – "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
b. For all other activities – "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].

c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

(7) If the final operation and maintenance entity is a third party:

a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.

b. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

(8) The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

(9) This permit does not:

a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
b. Convey to the permittee or create in the permittee any interest in real property;
c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

(10) Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, 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 of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

(11) The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

(12) The permittee shall notify the Agency in writing:

a. Immediately if any previously submitted information is discovered to be inaccurate; and
b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

(13) Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

(14) If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, 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 site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. 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. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.

(15) 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 binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

(16) The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

(17) This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

(18) A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with subsection 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

**GENERAL CONDITIONS FOR SOVEREIGNTY SUBMERGED LANDS AUTHORIZATION**

Any use of sovereignty submerged lands is subject to the following general conditions are binding upon the applicant and are enforceable under Chapter 253, F.S. and Chapter 258, F.S.

(1) Sovereignty submerged lands may be used only for the specified activity or use. Any unauthorized deviation from the specified activity or use and the conditions for undertaking that activity or use will constitute a violation. Violation of the authorization will result in suspension or revocation of the applicant's use of the sovereignty submerged lands unless cured to the satisfaction of the Board of Trustees.

(2) Authorization under Rule 18-21.005, F.A.C., conveys no title to sovereignty submerged lands or water column, nor does it constitute recognition or acknowledgment of any other person's title to such land or water.

(3) Authorizations under Rule 18-21.005, F.A.C., may be modified, suspended or revoked in accordance with its terms or the remedies provided in Sections 253.04, F.S. and Chapter 18-14, F.A.C.

(4) Structures or activities will be constructed and used to avoid or minimize adverse impacts to resources.

(5) Construction, use, or operation of the structure or activity will not adversely affect any species which is endangered, threatened or of special concern, as listed in Rules 68A-27.003, 68A-27.004, and 68A-27.005, F.A.C.

(6) Structures or activities will not unreasonably interfere with riparian rights. When a court of competent jurisdiction determines that riparian rights have been unlawfully affected, the structure or activity will be modified in accordance with the court's decision.

(7) Structures or activities will not create a navigational hazard.

(8) Structures will be maintained in a functional condition and will be repaired or removed if they become dilapidated to such an extent that they are no longer functional.

(9) Structures or activities will be constructed, operated, and maintained solely for water dependent purposes.

(10) The applicant agrees to indemnify, defend and hold harmless the Board of Trustees and the State of Florida from all claims, actions, lawsuits and demands in any form arising out of the authorization to use sovereignty submerged lands or the applicant's use and construction of structures on sovereignty submerged lands. This duty to indemnify and hold harmless will include any and all liabilities that are associated with the structure or activity including special assessments or taxes that are now or in the future assessed against the structure or activity during the period of the authorization.

(11) Failure by the Board of Trustees to enforce any violation of a provision of the authorization or waiver by the Board of Trustees of any provision of the authorization will not invalidate the provision not enforced or waived, nor will the failure to enforce or a waiver prevent the Board of Trustees from enforcing the unenforced or waived provision in the event of a violation of that provision.

(12) Applicant binds itself and its successors and assigns to abide by the provisions and conditions set forth in the authorization. If the applicant or its successors or assigns fails or refuses to comply with the provisions and conditions of the authorization, the authorization may be terminated by the Board of Trustees after written notice to the applicant or its successors or assigns. Upon receipt of such notice, the applicant or its successors or assigns will have thirty (30) days in which to correct the violations. Failure to correct the violations within this period will result in the automatic revocation of this authorization.

(13) All costs incurred by the Board of Trustees in enforcing the terms and conditions of the authorization will be paid by the applicant. Any notice required by law will be made by certified mail at the address shown on page one of the authorization. The applicant will notify the Board of Trustees in writing of any change of address at least ten days before the change becomes effective.

(14) This authorization does not allow any activity prohibited in a conservation easement or restrictive covenant that prohibits the activity.

**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 a subsequent order of the Department. Because the administrative hearing process is designed to formulate final agency action, the subsequent order may modify or take a different position than this action.

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, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; 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 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.

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. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62-110.106(10)(a).
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. If you do not publish notice of this action, this waiver may not apply to persons who have not received a clear point of entry.

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 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.

Executed in West Palm Beach, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Jason Andreotta
District Director
Southeast District

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

FDEP – Norva Blandin MSEM, Jeffrey Meyer, Danielle Sattelberger, Arizona Boyd, Catrina Frey, Laura Eldridge
Lisa Spadafina, Miami-Dade County RER, spadaL2@miamidade.gov
Christina Frederick, FFWCC, Christina.Frederick@MyFWC.com
FFWCC- Boating and Waterways Section, Waterway Management Unit, waterway.management@myfwc.com
Kathryn Bongarzone, The Chappell Group, Inc., kathryn@thechappellgroup.com Tyler Chappell, The Chappell Group, Inc., tyler@thechappellgroup.com

**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** **Date** 01/14/2022

**Attachments:**
Project Drawings and Design Specs., 6 pages
Miami International Boat Show Manatee Protection Plan, 18 pages
Standard Manatee Conditions for In-Water Work, 2011
As-built Certification and Request for Conversion to Operational Phase Form 62-330.310(1)*
Request for Transfer to the Perpetual Operation Entity Form 62-330.310(2)*
Request to Transfer Permit Form 62-330.340(1)*
Commencement Notice Form 62-330.350(1)*
*Can be downloaded at: https://floridadep.gov/water/submerged-lands-environmental-resources-coordination/content/forms-environmental-resource

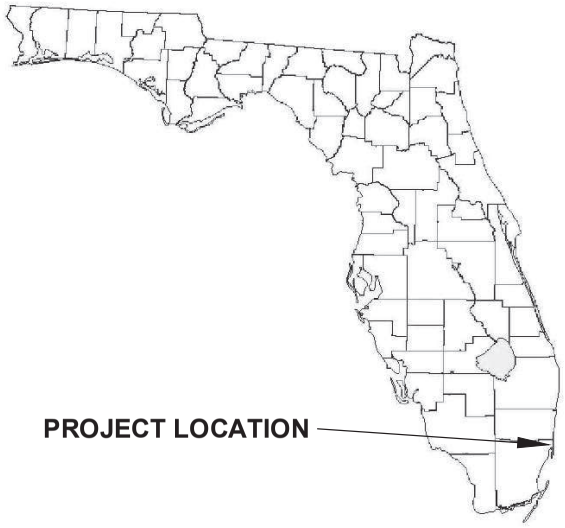


MDC534

# MIAMI INTERNATIONAL BOAT SHOW

# 2022 PLANSET

MDC535




LOCATION MAP (n.t.s.)

## DRAWING INDEX

SHEET 1: COVER SHEET

SHEET 2: PROPOSED OVERALL

SHEET 3: SECTIONS

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DEPARTMENT OF ENVIRONMENTAL PROTECTION - STATE OF FLORIDA

Permit Number

13-0361364-004-EM

Southeast District




VICINITY AERIAL (n.t.s.)

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MIAMI INTERNATIONAL BOATSHOW

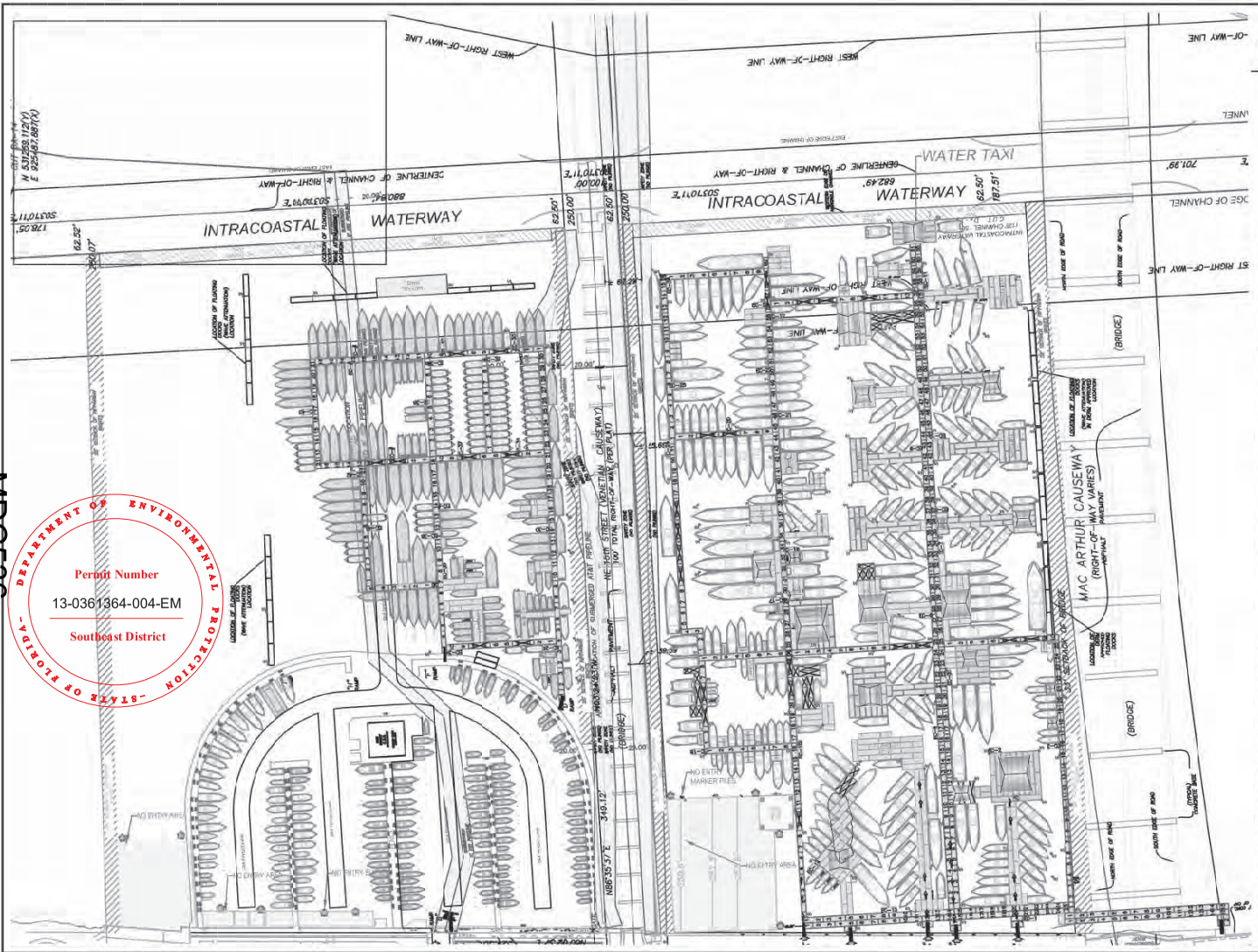
PREPARED FOR:

YACHTING PROMOTIONS, INC.

COVER

| Date: | Sheet : | of : |
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MDC536




DEPARTMENT OF ENVIRONMENTAL PROTECTION – STATE OF FLORIDA –
Permit Number
13-0361364-004-EM
Southeast District

NORTH

SCALE
1" = 200'

## LEGEND

- EXISTING DOCKS (61,960 ft²)
- PROPOSED FLOATING DOCKS (248,000 ft²)
- EXISTING SLL (735,614 ft²)
- NAVIGATIONAL CHANNEL

| | | |
|---|---|---|
| (16) | | = 10'x10' TEMPORARY FLOATING DOCK |
| (11) | | = TEMPORARY TRIANGLE FLOATING DOCK (various sizes) |
| (500) | | = 10'x40' TEMPORARY FLOATING DOCK |
| (11) | | = 5'x20' TEMPORARY FLOATING DOCK |
| (400) | | = 10'X20' TEMPORARY FLOATING DOCK |
| (10) | | = 4' X 22' DOCK RAMP |
| (180) | S | = W12x48 STEEL "I" BEAM (PILING) |
| (254) | F | = FIRE EXTINGUISHER (Dry Chemical - Class 2-A 40BC) |
| (650) | | = EXHIBITOR BOAT |
| (10 | | = NO ENTRY BUOY |
| (2) | | = NO MOORING SIGNAGE |
| (60) | | = TENTS |
| (31 | | = 10'x40' TEMPORARY STEEL WAVE ATTENUATION FLOATING DOCK |
| (1) | | = 35'X130' TEMPORARY STEEL WAVE ATTENUATION FLOATING DOCK |

*NOTE: 1. BATHYMETRIC SURVEY PROVIDED BY TERRAQUATIC SURVEYING & MAPPING BOUNDARY SURVEY PROVIDED BY MCLAUGHLIN ENGINEERING CO.*
*2. THE 150 EXISTING SLIPS FROM THE SEA ISLE MARINA WILL BE USED FOR SEA TRIALS DURING THE SHOW*
*3. VENDOR DOCK LOCATION MAY VARY, DRAWING SHOWS TYPICAL LOCATION WITHIN BOUNDARY OF LEASE AREA*
*4. NO VESSELS SHALL BE MOORED TO WAVE ATTENUATION FLOATING DOCKS*
*5. NO MORE THAN 208 VESSELS WILL BE WITHIN THE SLL*

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- *T&E Species Surveys*
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# MIAMI INTERNATIONAL BOAT SHOW

PREPARED FOR:
YACHTING PROMOTIONS, INC.

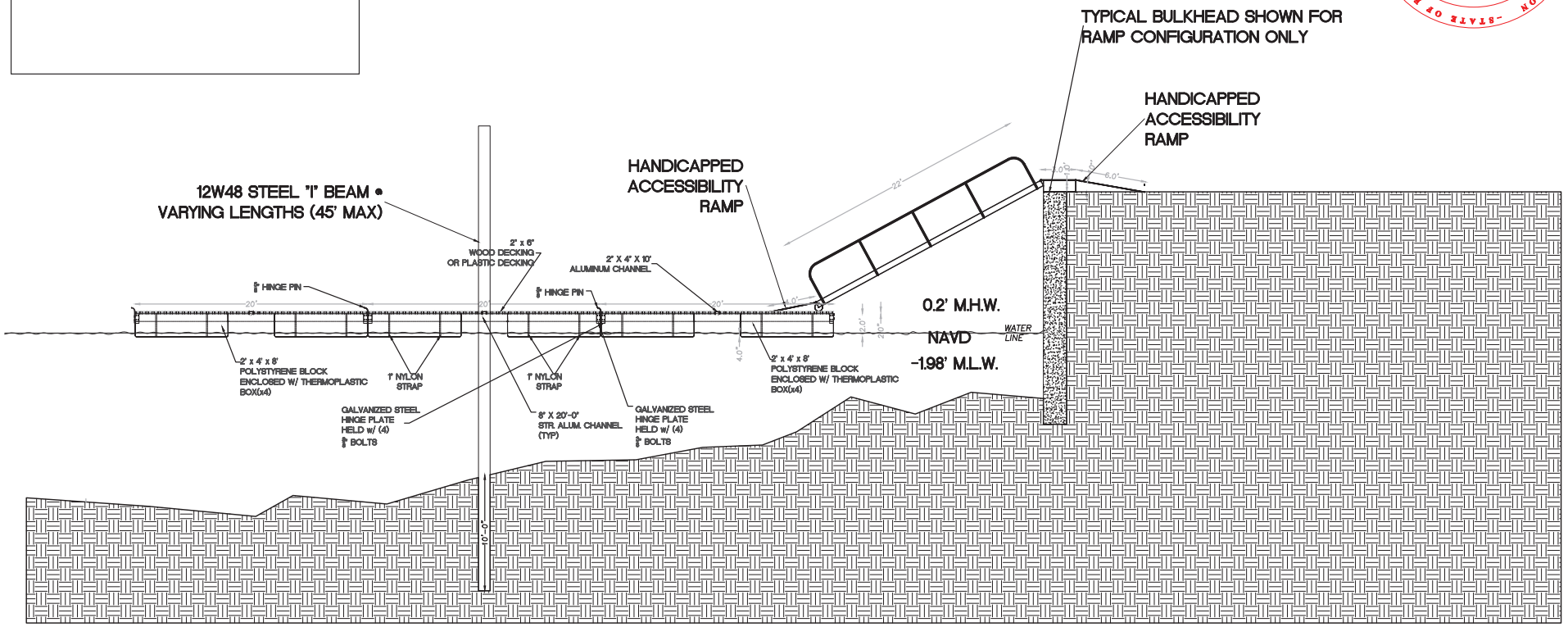
PROPOSED CONDITIONS W/VESSELS

| Date | Sheet : | of : |
|---|---|---|
| 1/5/2022 | 2 | 6 |
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# PROPOSED CONDITIONS SECTION (TYP.)

N.T.S.

DEPARTMENT OF ENVIRONMENTAL PROTECTION - STATE OF FLORIDA -
Permit Number
13-0361364-004-EM
Southeast District




MDC537

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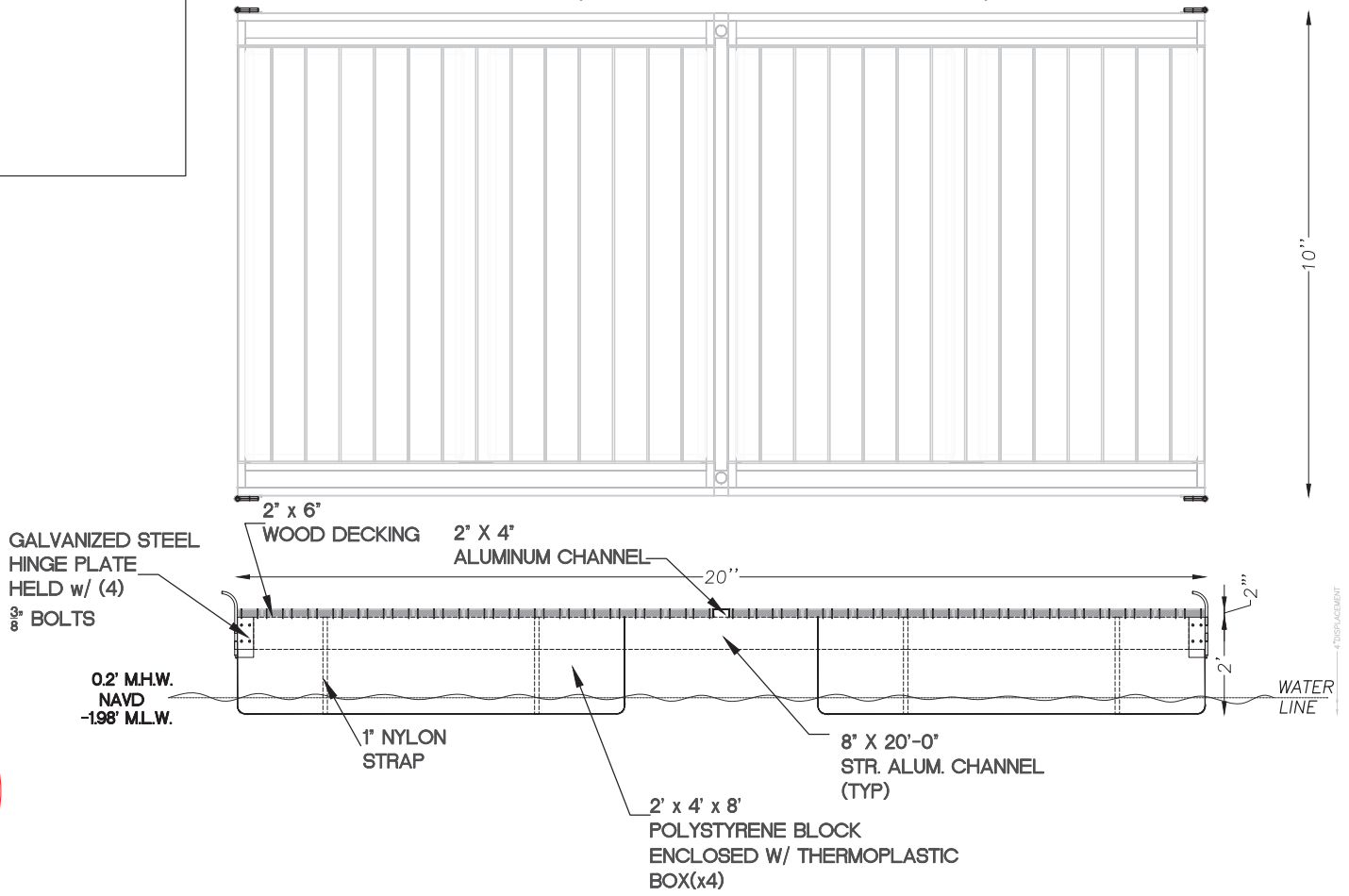
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SECTION

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MDC538

## 10' x 20' TEMPORARY FLOATING DOCK
## (SECTION THROUGH 20' DIMENSION)




DEPARTMENT OF ENVIRONMENTAL PROTECTION - STATE OF FLORIDA
Permit Number
13-0361364-004-EM
Southeast District

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# MIAMI INTERNATIONAL BOAT SHOW

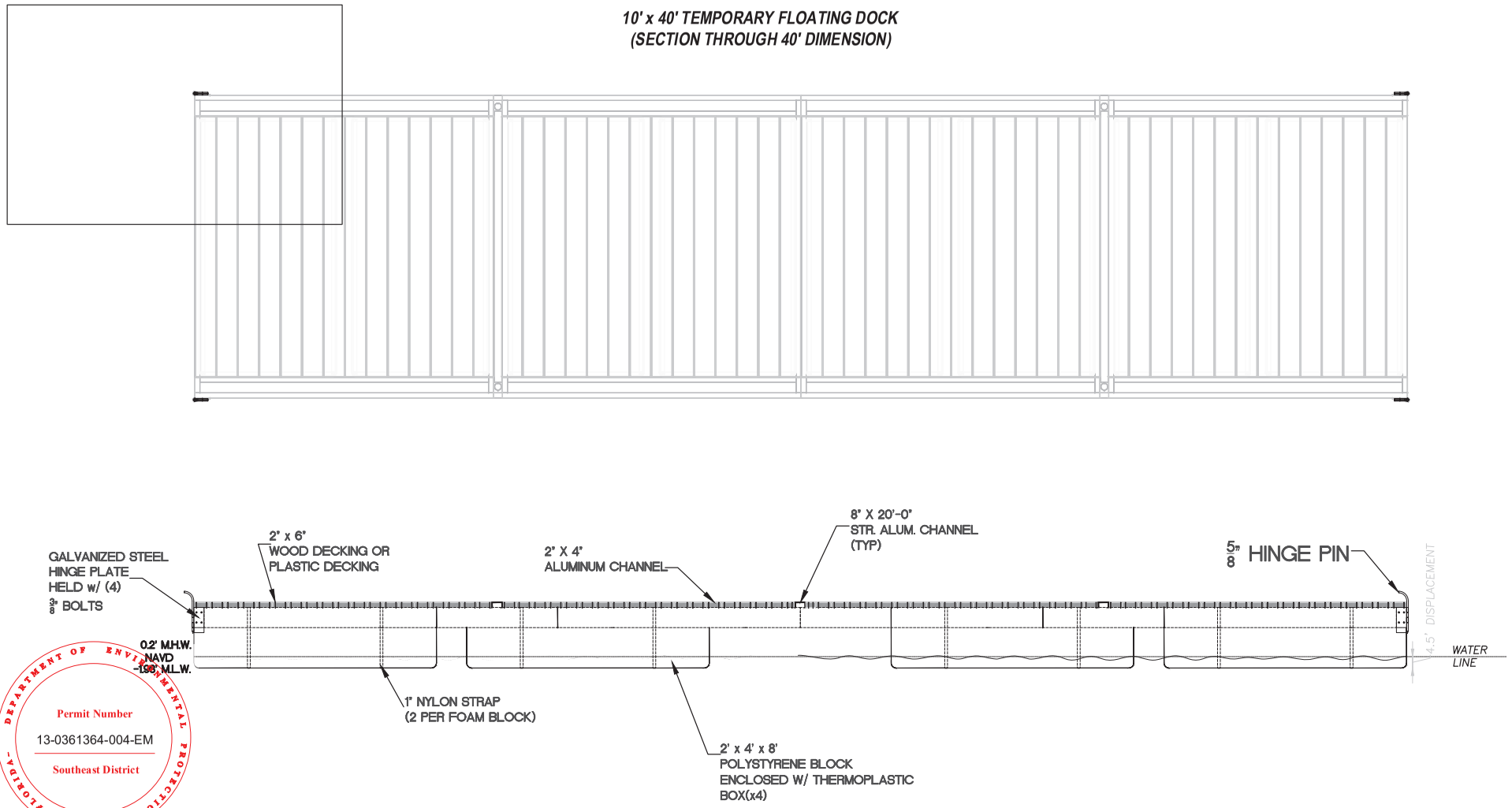
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10'X20' DOCK SECTION

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|---|---|---|
| 1/5/2022 | 4 | 6 |
| Proj No.: 09-0039.002 | | |

MDC539

## 10' x 40' TEMPORARY FLOATING DOCK
## (SECTION THROUGH 40' DIMENSION)




DEPARTMENT OF ENVIRONMENTAL PROTECTION - STATE OF FLORIDA

Permit Number
13-0361364-004-EM
Southeast District

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- *Marina & Wetland Permitting*
- *Mitigation Design & Monitoring*
- *T&E Species Surveys*
- *Tree Surveys & Appraisals*

# MIAMI INTERNATIONAL BOAT SHOW

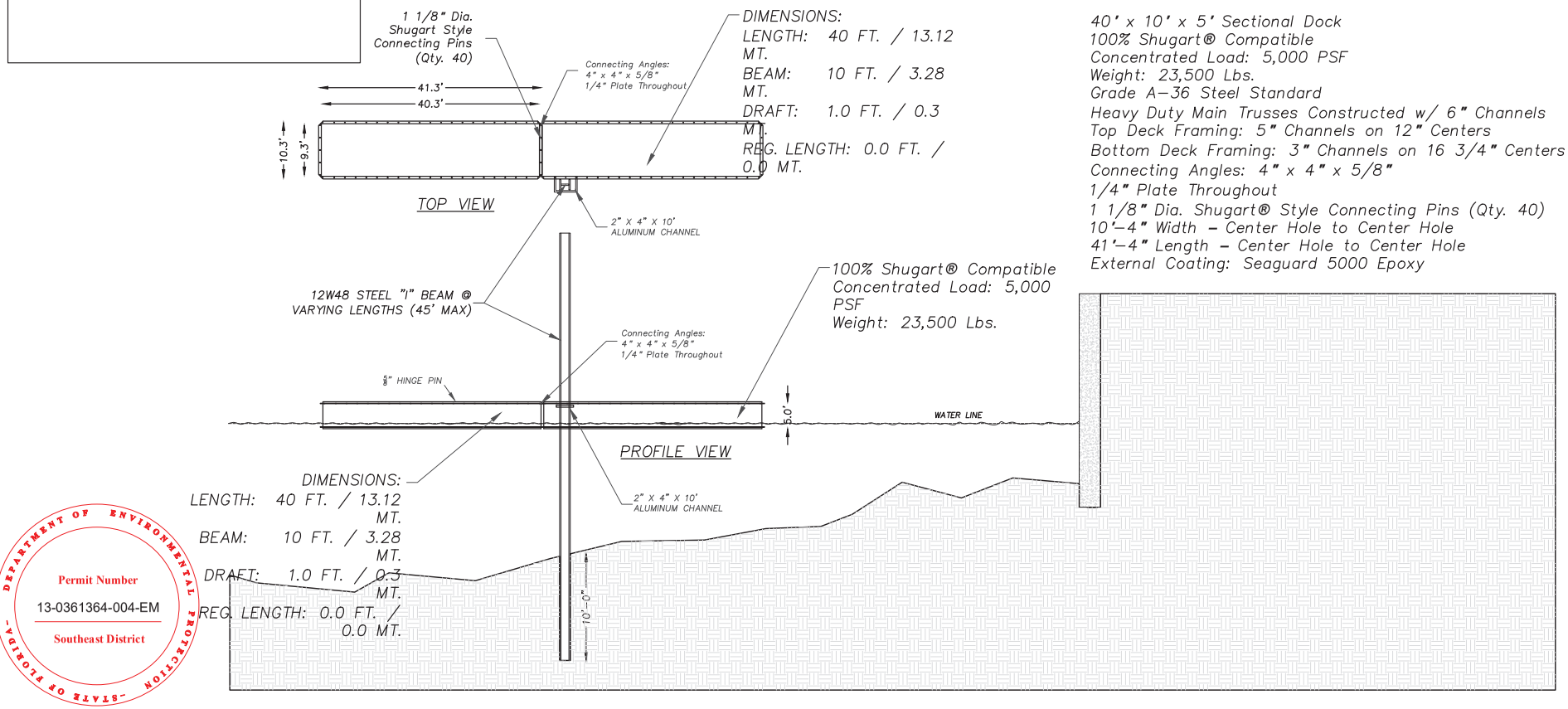
PREPARED FOR:
YACHTING PROMOTIONS, INC.

10'X40' DOCK SECTION

| Date: | Sheet : | of : |
|---|---|---|
| 1/5/2022 | 5 | 6 |
| Proj No.: 09-0039.002 | | |

MDC540

# 40'X10'X5' STEEL FLOATING DOCK




NOTES:

40' x 10' x 5' Sectional Dock
100% Shugart® Compatible
Concentrated Load: 5,000 PSF
Weight: 23,500 Lbs.
Grade A-36 Steel Standard
Heavy Duty Main Trusses Constructed w/ 6" Channels
Top Deck Framing: 5" Channels on 12" Centers
Bottom Deck Framing: 3" Channels on 16 3/4" Centers
Connecting Angles: 4" x 4" x 5/8"
1/4" Plate Throughout
1 1/8" Dia. Shugart® Style Connecting Pins (Qty. 40)
10'-4" Width - Center Hole to Center Hole
41'-4" Length - Center Hole to Center Hole
External Coating: Seaguard 5000 Epoxy

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## MIAMI INTERNATIONAL BOAT SHOW

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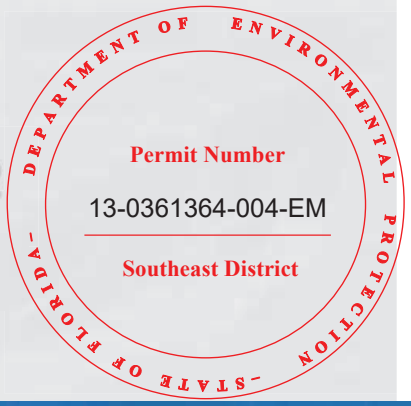
STEEL FLOATING DOCK SECTION

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|---|---|---|
| 1/5/2022 | 6 | 6 |
| Proj No.: 09-0039.002 | | |

# MIAMI INTERNATIONAL BOAT SHOW
# MANATEE PROTECTION PLAN
# *UPDATED 12/17/2021
# TCG NO. 09-0039.002

## USACOE No: SAJ-2016-01796 (LP-AG)
## FDEP ERP No: 13-0361364-004-EM
## DERM NO: CLI-2018-0071

## PREPARED FOR:
## INFORMA
## 1650 SE 17TH STREET, STE 412
## FORT LAUDERDALE FL 33316




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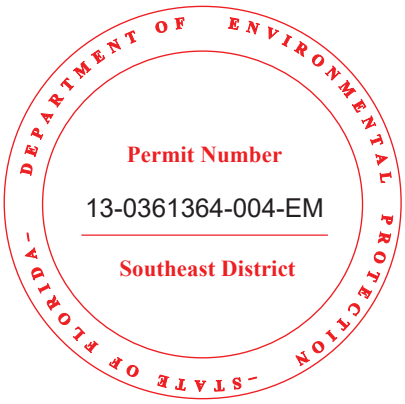
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| Figure 2 | Temporary Access (Sea Trial) Pass |
| Figure 3 | Sea Trial Log |
| Figure 4 | FFWCC Brochure |
| Figure 5 | FFWCC Acknowledgement |





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# Miami International Boat Show
# Manatee Operation Plan
# TCG Project No. 09-0039.002

Beginning with the 2022 Boat Show, event operations will be consolidated in downtown Miami. The permittee entity ("Informa") and the National Marine Manufacturers Association ("NMMA") operated two separate annual boat shows over President's Day weekend each February. Beginning in 2019, Informa obtained approvals to move its event from the waters of Indian Creek on Miami Beach to the Biscayne Bay at the 1 Herald Plaza site in downtown Miami. At the same time, NMMA had approvals to conduct its event on Virginia Key in the waters of the Miami Marine Stadium basin. In late 2020, Informa took over control of the NMMA event, and beginning in 2022 Informa will operate one consolidated in-water boat show at the downtown Miami location, with upland components of the event moving back to the Miami Beach Convention Center. To reduce potential environmental impacts of the boat shows, particularly on the manatee, there will be no further event operations at Virginia Key adjacent to the Sadowski Critical Wildlife Area.

In addition to this event consolidation, the manatee operational plan shall be significantly enhanced to mitigate any potential impacts of the slip relocation and sea trials downtown. The revised operation plan for the Miami International Boat Show is broken down into 3 categories:

1. In Water Setup
2. The Show Event
3. Show breakdown

*Specifically, the elements noted below with an **asterisk (*)** are new, additional mitigation steps that have been added to the 2022 Operation plan that were not included in the 2018 Informa Operation plan that was previously approved.*

## In Water Setup

1. All vessels must be in place prior to the “Move-in Deadline” listed on the Set-up Schedule for In-Water Exhibits as designated for each vendor (coordination with captains begins 3 months prior to the show)

2. Floating docks will be put in place as vessels are loaded into their designated slips

3. A Set-up Official will be onsite to facilitate vessels loading into the correct slips
   - Officials will be monitoring VHF Channel 68


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STATE OF FLORIDA

4. All vessels need to travel to and from the show using designated navigational channels at all times (see attached Entrance Diagram)
    - Vessels arriving from the south will enter through the Port of Miami and follow the channel under MacArthur Causeway
    - Vessels arriving from the north will follow the Intracoastal Waterway (ICWW) under the 79th Street Bridge and Julia Tuttle Causeway

5. A minimum of 3' of clearance between vessels and the substrate will be maintained at all times to prevent turbidity

6. Each vessel will have a designated crew member that acts as a manatee spotter equipped with polarized glasses to inform captains of any manatees within 50' of the vessel to prevent impact or harm to manatees

7. Marine Patrol will be present to enforce the regulations associated with the permits and will be specifically assigned to the Boat Show
    - No wake speeds will be enforced
    - Marine Patrol will immediately call out vessels exceeding no wake speeds on the VHF radio/loudspeaker, and will report vessels to Show Management staff

**The Show Event**

The show operations will incorporate the *Exhibitor Compliance Plan*, included in this submittal. Show operations includes the Move in of vessels and delivery and set up of freight and displays associated with the operation of the show. Show operations includes but is not limited to:

- Installation of manatee awareness signs as per the permit *
- Installation of trash receptacles and maintenance of receptacles with lids *
- Implementation and monitoring of no single use plastics *
- Daily meetings with water taxi staff on manatees and the shows dedicated manatee spotters on procedures for tracking and protecting manatees in the area*
- The placement of nets and mapping of the placement so that show personnel dedicated to cleaning can quickly and easily remove any trash and or debris that may fall into the water*
- Law Enforcement officers are present during all move in, and operation of the show, starting before the opening of the show and remaining until the last boat has departed*


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Compliance Monitoring

- The operation and management of the sea trials and water taxi will remain the same as previously authorized at this location for the NMMA show*
- Law Enforcement and show management will strictly enforce the use of the sea trial routes and Manatee speed zones. Any exhibitor or captain that violates these rules will lose their access pass and be removed from the show*
- Informa shall provide trained staff to monitor the vessel traffic*
- The Marine contractor shall provide trained staff to monitor vessel traffic and marine activities*
- Vessel operators must have watched the FWC manatee training video*
- Vessel operators (show vessels and water taxis) shall watch the NMMA webinar video that indicates the mandatory travel routes, and rules*
- The water taxis have all eyes on the water with a dedicated manatee spotter on each vessel at all times*
- Operators must be familiar with the environment, water depth, seagrass areas within the working area of the basin*
- Operators must obey the speed zone, operate slow speed at all times*
- Operators must be on watch for manatees during all hours of operation*
- Operations shall be during daylight only*
- All barge related and pile driving activities shall have at least one dedicated manatee spotter*
- Manatee sightings must be reported immediately, if sighted a spotter will be dedicated to watch behavior and location of the manatee from a safe distance*
- Construction activities will cease while a manatee is in the work area*

## Show Breakdown

Show breakdown happens at a much faster pace than show set up. Extra crew members are brought in to organize and assist with the freight coming off the docks.

- Small push boats are used to bring display docks in and offload materials via crane at the staging site
- Barges are prepared and turbidity curtains installed for piling removal
- Law Enforcement is onsite to prevent us of dock system by visitors*
- Environmental agencies notified of dock removal completion and the following close out items are coordinated:
    - Post show benthic survey is scheduled within 30 days from completion of removal of all docks and pilings
    - Submittal of sea trial reports*
    - Submittal of manatee log*
    - Submittal of sea trial non-compliance actions (if any)*


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- Submit as built detailing dock and vessel location and quantity

**Sea Trial Exhibitor Compliance Plan**

As noted, in connection with the consolidation of all boat show events to downtown Miami, all sea trials shall be relocated from Virginia Key, which will reduce potential manatee conflicts by moving these trips away from the Sadowski Critical Wildlife Area and putting them at a site directly abutting existing deep water shipping canals. Every element of the manatee protection measures for the sea trials at the Virginia Key site shall be incorporated at the new location.

On this basis, all vessels arriving or departing from the event will be required to have two (2) items on board, both items will be provided by Informa staff upon move in:

1.) The Miami Yacht Show Pennant (must be attached in a highly visible location on each vessel)*
2.) Sea Trial Access Pass specific to each vessel*

The following items must be adhered to by all vessels authorized for sea trials:

- The mandatory Sea Trial Route requires all vessels to maintain **No Wake** speed until the vessel reaches the channel. Vessels operating to the north will stay within the channel heading north, and not detour east. Vessels operating to the south will stay in the channel and will stay outside of the "No Entry" areas shown on the attached Entrance Diagram*
- The number of vessels authorized to participate in sea trials will be limited to 150 vessels*
- All individuals participating in sea trials must read the manatee education pamphlet distributed by FFWCC (Figure 4) and sign the FFWCC acknowledgement (Figure 5) prior to operating any vessel*
- Vessels must maintain no wake at all times approaching the marina and water taxi docks*
- All vessels participating in sea trials will be required to have a designated spotter who will be outfitted with a shirt identifying them as the spotter and polarized sunglasses *
- Any vessel operator who does not follow these guidelines will have their Sea Trial pass revoked and will be prevented from returning to the show*

Three (3) marine patrol officers will be monitoring access to the basin and the "No Mooring" areas. Four (4) manatee spotters will be positioned at the entrance to the show area and will communicate to vessel operators if manatees are spotted. If a manatee is spotted within the entry channel or show area, boat activity will be


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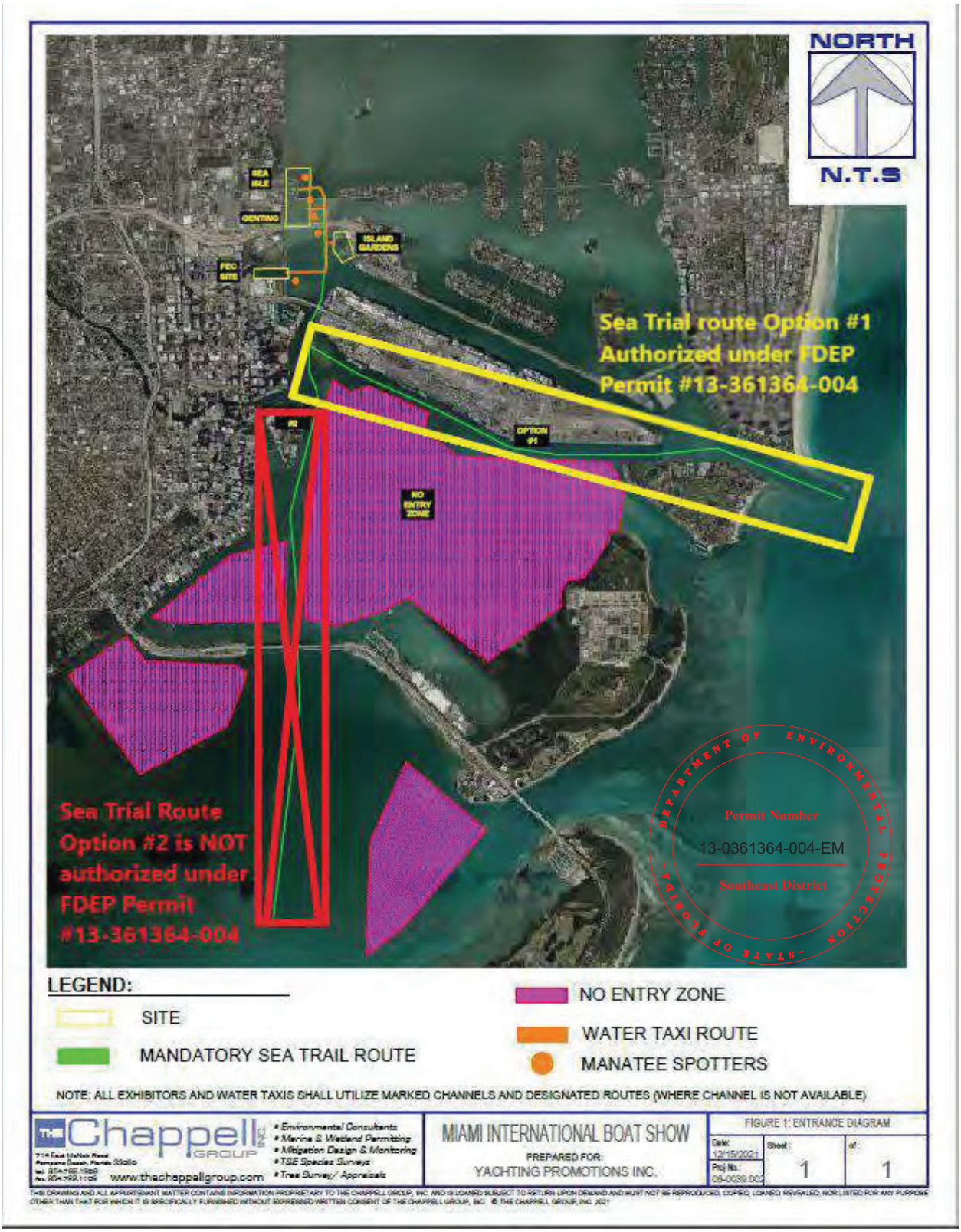
suspended until the manatee has left the area. Inform staff will remove any exhibitor, captain or vessel that does not comply with permit and show parameters.


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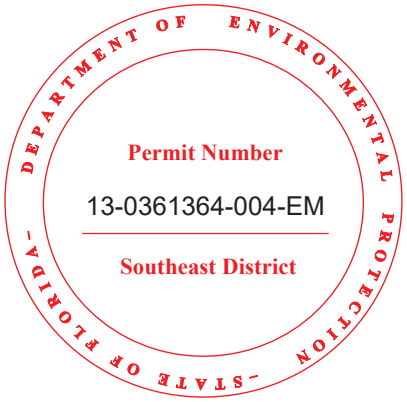
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# Figure 1


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NORTH
N.T.S
Sea Trial route Option #1
Authorized under FDEP
Permit #13-361364-004
NO ENTRY ZONE
Sea Trial Route
Option #2 is NOT
authorized under
FDEP Permit
#13-361364-004
DEPARTMENT OF ENVIRONMENTAL PROTECTION
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Southeast District
STATE OF FLORIDA
LEGEND:
SITE
MANDATORY SEA TRAIL ROUTE
NO ENTRY ZONE
WATER TAXI ROUTE
MANATEE SPOTTERS
NOTE: ALL EXHIBITORS AND WATER TAXIS SHALL UTILIZE MARKED CHANNELS AND DESIGNATED ROUTES (WHERE CHANNEL IS NOT AVAILABLE)
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MIAMI INTERNATIONAL BOAT SHOW
PREPARED FOR:
YACHTING PROMOTIONS INC.
FIGURE 1: ENTRANCE DIAGRAM
Date: 12/15/2021
Sheet: 1
of: 1

# Figure 2





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# 2022 Miami International Boat Show

# TEMPORARY ACCESS COMMUTER PASS

MDC551

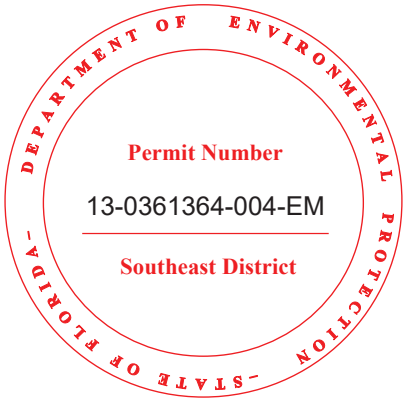
**Please Keep This Access Pass on Your Vessel at all Times**

**Please use the designated entry & exit channel and maintain no wake while entering or exiting the basin.**

**EXHIBITOR: _____ BOAT:_____**

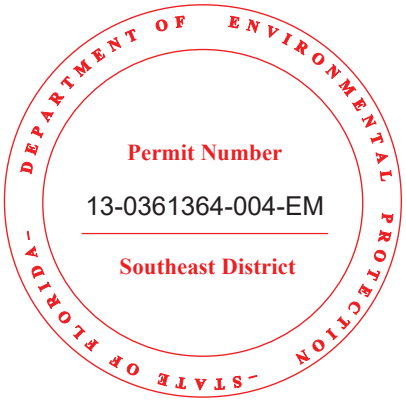
**Mandatory Check In at the T- Dock: TOP OF PIER 1**

# Figure 3





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# MIAMI INTERNATIONAL BOAT SHOW

February 16th-21st, 2022

## EXHIBITOR SEA TRIAL LOG

**Exhibitor:**_____

| Captain Print Name: | Sea Trial Date: | Time Out: | Time In: | Signature:* |
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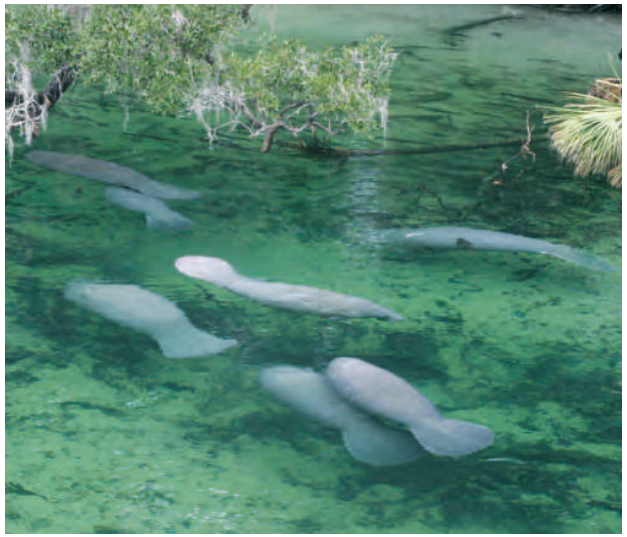
***I have read the Boat Operators Instruction Package and will comply with all requirements illustrated within.**

Please complete and give back to Scott Cohen

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# Figure 4


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## About Florida manatees

Florida manatees are a native subspecies of the West Indian manatee. They are a grayish-brown marine mammal with a paddle shaped tail and two flippers.

Like all mammals, manatees have hair, which is sparsely distributed on their body, with the area around its mouth having stiff whiskers. Adults average 10 feet in length and about 1,200 pounds but can reach over 13 feet and more than 3,000 pounds. At birth, a calf is about three to four feet long and 60 to 70 pounds.

Manatees eat plants along rivers, coastal areas and at the water's surface. At rest, they can hold their breath for up to 20 minutes; when active, they surface to breathe about every three to five minutes.

They live in both freshwater and saltwater habitats, including rivers, springs, estuaries, bays and canals. Manatees cannot survive for prolonged periods in water that is colder than 68°F, so natural springs and power plant warm-water discharge canals provide important habitat for manatees during colder months.

Female manatees begin to breed between five and seven years of age and are pregnant for 13 months. Calves spend their first two years nursing and learning how to survive before leaving their mothers. Generally, wild manatees live to about 30 years of age.

IMDG 55.1

## Manatees and the law

Manatees are protected by the Marine Mammal Protection Act of 1972, the Endangered Species Act of 1973 and the Florida Manatee Sanctuary Act of 1978. It is illegal to feed, harass, harm, pursue, hunt, shoot, wound, kill, annoy or molest manatees.

Examples of illegal activities include:

- Giving food or water to manatees, or using food or water to attract manatees
- Separating a mother and calf
- Disturbing manatee mating herds
- Pursuing or chasing manatees either while swimming or with a vessel
- Disturbing resting manatees
- Hitting, jumping on, standing on, holding on to or attempting to ride manatees
- Blocking a manatee's path
- Fishing for or attempting to hook or catch a manatee

**Call the FWC's Wildlife Alert Hotline:**
**888-404-FWCC (3922)**
**#FWC on cell phones,**
**or text Tip@MyFWC.com**
**to report manatee deaths, injuries, harassment, accidents, or ones orphaned or distressed.**




**Follow us on:**

**Florida Fish and Wildlife Conservation Commission**
**MyFWC.com/Manatee**
*Division of Habitat and Species Conservation*
*Imperiled Species Management Section*

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# Guidelines for protecting Florida Manatees



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*We all have a shared responsibility to protect Florida's resources and pass on to future generations the beauty, wildlife, water and natural resources we have today.*

**Florida Fish and Wildlife Conservation Commission**
**MyFWC.com/Manatee**

## Tips for boat, including personal watercraft, operators

- Observe and follow all boating regulatory zone signs.
- Wear polarized sunglasses so you can see where manatees are located underwater.
- Slow down. Reducing speed gives you a greater chance to avoid manatees and for them to avoid your vessel.
- Use marked channels when boating. Channel depth reduces the likelihood of crushing or hitting manatees in shallow waters.

### Manatee Protection Zones

There are established zones to protect manatees from collisions with boats and harassment. Here are the typical signs found on Florida's waterways:




**Idle Speed Zones**
Designate a protected area where boats are not permitted to go any faster than necessary to maintain steerage and make headway while producing no wake.




**Slow Speed Zones**
Designate a protected area where boats must be fully off plane and completely settled and level in the water while moving with only minimum wake.




**Motorboats Prohibited Zones**
Designate a protected area that prohibits all entry by all power-driven vessels or those operating under mechanical means of propulsion.




**No Entry Zones**
Designate a protected area that prohibits all entry including boating, swimming, wading, fishing and diving activities.

MDC556

### Report collisions with manatees

You will not be cited if you accidently collide with a manatee while obeying posted speed zone restrictions. Please report any vessel collisions with manatees as soon as possible to increase the manatee's chance of survival.

## Tips for paddlers

- Use caution when paddling near seagrass beds, sanctuaries or refuge area boundaries as manatees frequent these areas. Give manatees space to move freely in their habitat.
- Paddle your vessel to avoid traveling over resting manatees. Manatees must surface to breathe and will startle awake if you are in the way. Startled manatees may quickly flee the area, potentially moving into harm's way. Their quick movements can also cause small vessels to capsize.
- Lower your anchor slowly when securing your vessel as there may be resting manatees below.




## Tips for divers and snorkelers

- Consider using snorkel gear when diving near manatees as the sound of air bubbles from SCUBA gear can disturb them.

### Other ways to help manatees:

- Participate in coastal cleanup events.
- Attend boating safety classes or take online courses.
- Purchase a "Save the Manatee" license plate or collectible manatee decal from your tax collector's office or online.
- Dispose of monofilament line properly at line recycling bins or drop–off locations to avoid entangling manatees, birds, marine turtles and other marine life.


Karen Parker, FWC

## Tips for viewing wild manatees

- Wear polarized sunglasses so you can see where manatees are located underwater.
- Watch manatees from a distance to limit disturbance. Be mindful of resting manatees.
- Never pursue, chase or disturb any manatee. If a manatee stops feeding, swims toward you or changes its behavior, you are too close.
- Speak quietly and avoid making loud noises when you are near wildlife areas to avoid disturbance.
- Do not separate a mother and calf.
- Watch out for "swirling" when manatees dive. The swirls look like a large "footprint" on the water's surface.
- Never offer food or water to manatees because it alters their foraging behavior and attracts them to areas where they may be harmed.
- Do not touch, remove or damage research equipment attached to manatees. The tag units help researchers monitor these manatees.

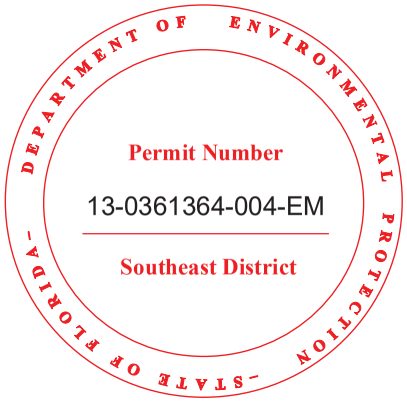


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# Figure 5


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# 2022 Miami International Boat Show




# FFWCC Acknowledgment

**EXHIBITOR: _____ BOAT:_____**

MDC558

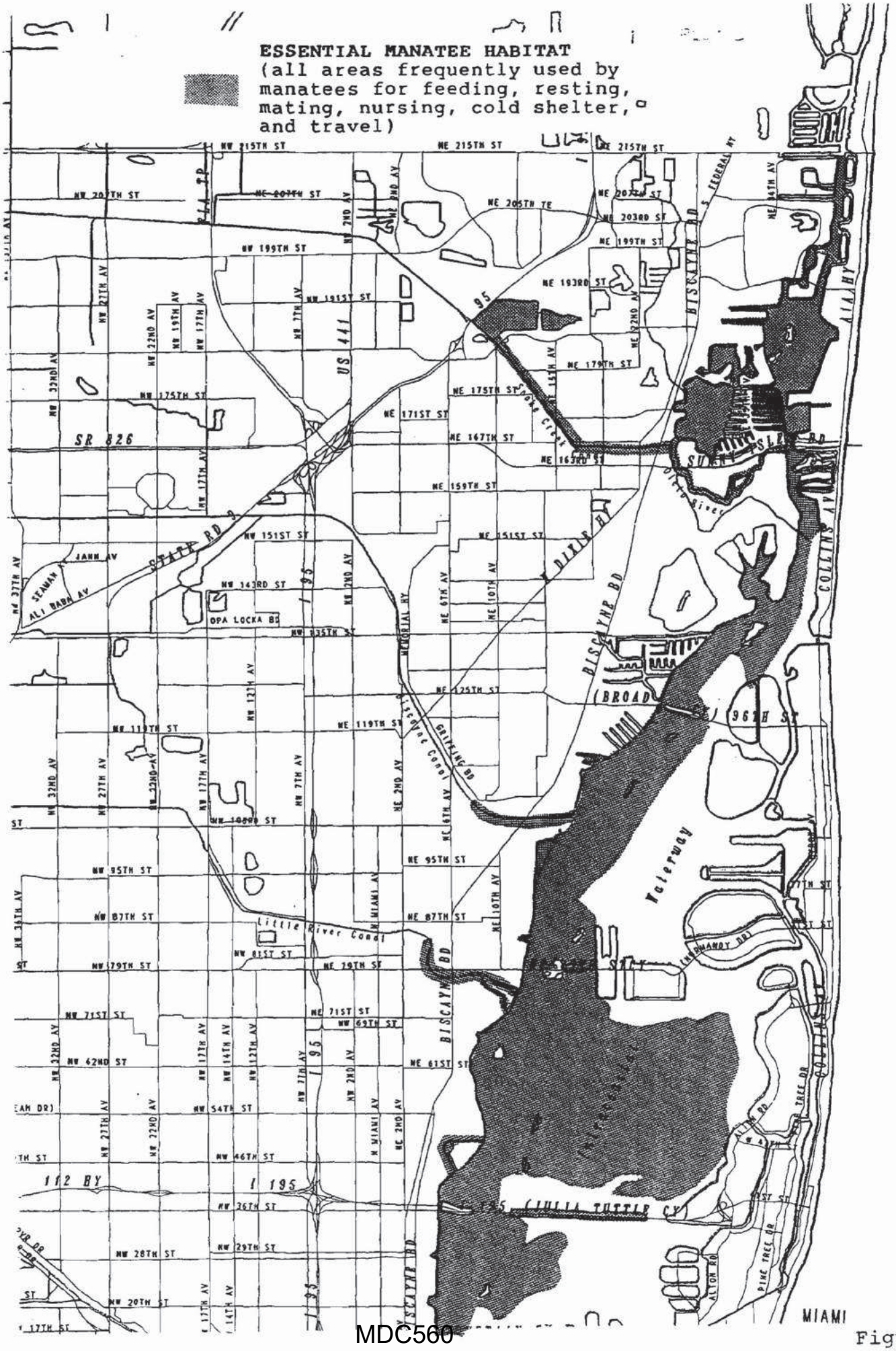
I **have read and understand the provided** FFWCC G**uidelines** f**or protecting** F**lorida** M**anatees and agree to abide by all posted speed** z**ones and other guideline to protect manatees.**

Participant Name**:** _____ Signature**:**_____

# Attachment F

# Miami-Dade County Manatee Protection Plan (Excerpt)

# Essential Manatee Habitat Map



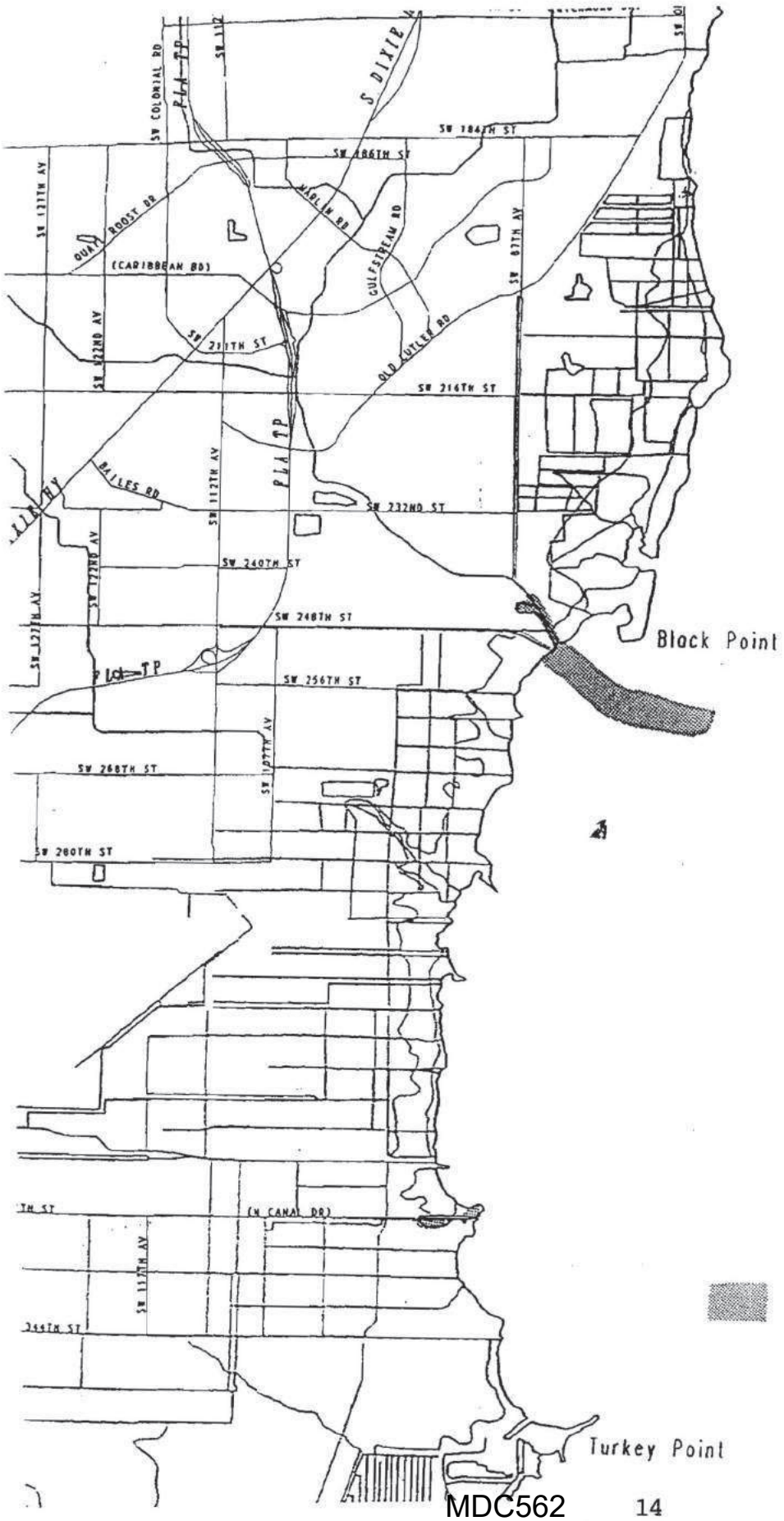

MDC560

Figure



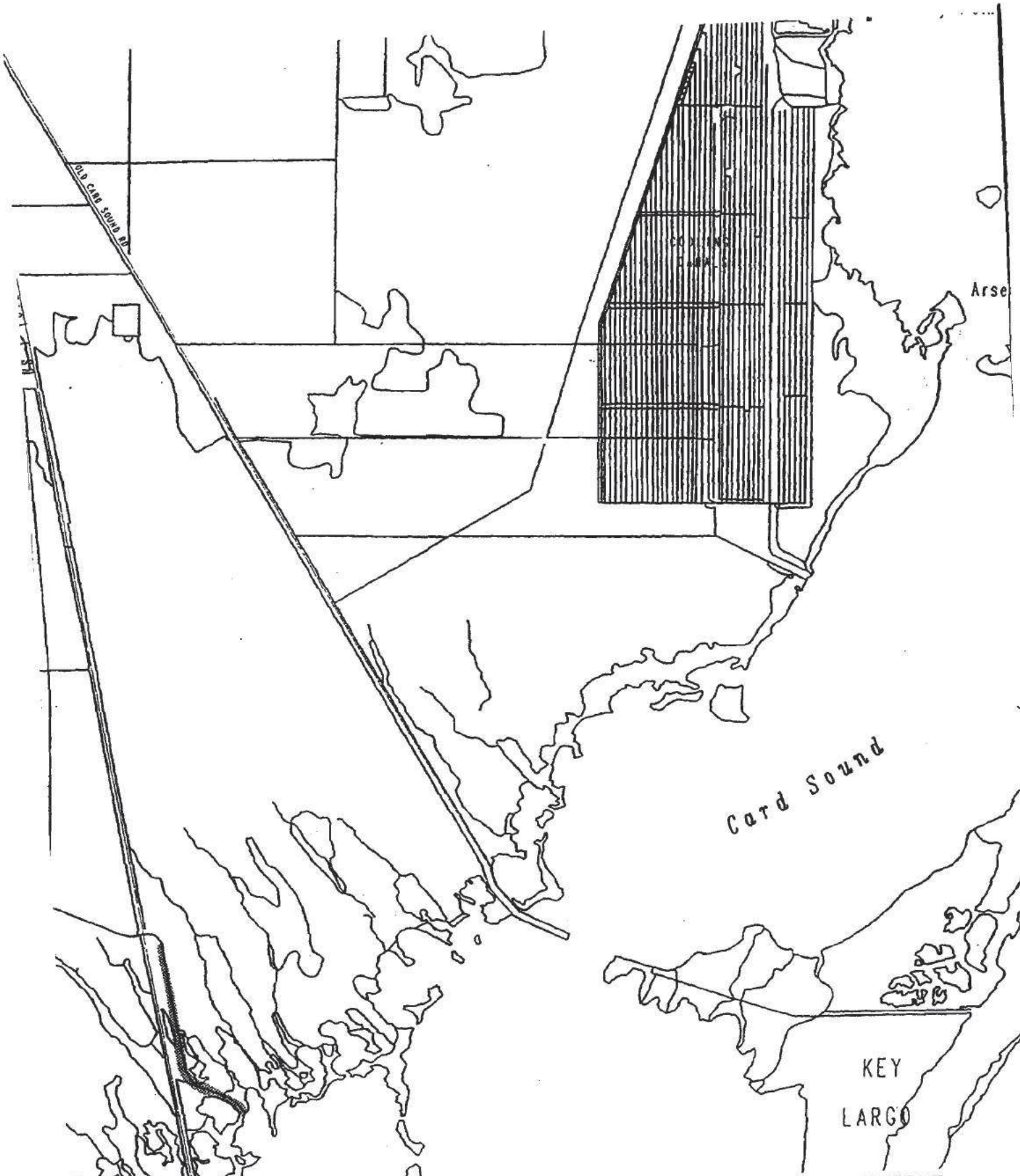

**ESSENTIAL MANATEE HABITAT**
(all areas frequently used by manatees for feeding, resting, mating, nursing, cold shelter and travel)

Figure 3b




ESSENTIAL MANATEE HABIT
(all areas frequently u
manatees for feeding, r
mating, nursing, cold s
and travel)

Figure




**ESSENTIAL MANATEE HABITAT**
(all areas frequently used by manatees for feeding, resting, mating, nursing, cold shelter, and travel)

Figure 3d



MDC563