



# FLORIDA DEPARTMENT OF Environmental Protection

Marjory Stoneman Douglas Building  
3900 Commonwealth Boulevard  
Tallahassee, FL 32399

**Ron DeSantis**  
Governor

**Jeanette Nuñez**  
Lt. Governor

**Shawn Hamilton**  
Secretary

August 15, 2022

The Honorable Ron DeSantis  
Governor of Florida  
Plaza Level 01, The Capitol  
400 South Monroe Street  
Tallahassee, Florida 32399

Miami-Dade County Legislative Delegation  
Chair: Senator Ana Maria Rodriguez  
111 NW 1st Street  
Suite 1032  
Miami, Florida 33128

Mayor Daniella Levine Cava  
111 N.W. 1st Street, 29th Floor  
Miami, Florida 33128

Mayor Francis X. Suarez  
Miami Riverside Center  
444 SW 2nd Ave  
Miami, Florida 33130

Miami-Dade County Board of County Commissioners  
111 NW 1st Street,  
Suite 220  
Miami, Florida 33128

Miami City Commission  
3500 Pan American Dr.  
Miami, Florida 33133

Dear Governor DeSantis, Senator Ana Maria Rodriguez, Mayor Daniella Levine Cava,  
Mayor Francis X. Suarez, Miami-Dade County Commissioners and Miami City  
Commissioners:

The Florida Department of Environmental Protection's (DEP) Office of Ecosystem Restoration is pleased to submit the Biscayne Bay Commission Semi-Annual Report per Section 163.11(7), F.S. Consistent with statute, this report is made available on the department's website as well as Miami-Dade County's website.

This report includes a list of the commission members, the elected Chair and Vice-Chair, the charge of the commission and work to date. If you have any questions, please reach out to Adam Blalock at (850) 245-2031.

Respectfully,

A handwritten signature in blue ink, appearing to read "Shawn Hamilton". The signature is fluid and cursive, with a prominent initial "S" and a long horizontal stroke at the end.

Shawn Hamilton  
Secretary  
Florida Department of Environmental Protection



# **BISCAYNE BAY COMMISSION**

## **Semi-Annual Report**

---

**August 15, 2022**

## ABOUT THE BISCAYNE BAY COMMISSION

On June 3, 2021, Governor Ron DeSantis took a major step forward in protecting vital natural resources within Biscayne Bay through the creation of the Biscayne Bay Commission.

While Biscayne Bay is protected in its entirety by either a national park or state aquatic preserve, it faces global, regional and local stressors, including sea level rise, impaired water quality, habitat loss, and human activity that conflicts with the bay's well-being. This legislation signed into law by Governor DeSantis enables direct action to address these issues.

The Biscayne Bay Commission will monitor the strategic plan and create an associated financial plan to fund its priorities, using agencies representing the commission.

Commission meetings will provide a forum for exchange and serve as a clearinghouse for public information on all plans, programs and projects being conducted.

To date, the commission has held three meetings, the last occurring on July 27, 2022. A copy of all [meeting agendas and additional materials](#) including past reports can be online. This semiannual report is made available to describe the accomplishments of the commission and each member agency and the status of each pending task. This includes:

- Summary of any meetings since the last submitted semiannual report.
- Attachment A – Project Tracker: Update by the commission and member agencies of all projects and tasks designed to improve Biscayne Bay. This document is a living Excel document where all member agencies provide updates to their respective projects and tasks. Information on the spreadsheet primarily includes project name, description, updates since the last semiannual update, project type and project status.
- Attachment B – Financial plan: Copy of the consolidated financial plan, inclusive of any necessary updates.

*The commission shall submit a semi-annual report describing the accomplishments of the commission and each member agency, as well as the status of each pending task, to the Miami City Commission, the Miami-Dade County Board of County Commissioners, the mayor of Miami, the mayor of Miami-Dade County, the Governor, and the chair of the Miami-Dade County Legislative Delegation. The report shall also be available on the Florida Department of Environmental Protection and Miami-Dade County websites.*

*Section 163.11(7), Florida Statutes*

## COMMISSION MEMBERS

### Commission members were appointed to their seats between July and November 2021.

Commission members are Noah Valenstein, Jean Monestime, Rebeca Sosa, Danielle Cohen Higgins, Tim Meerbott, Charlie Martinez, Adam Blalock, Thomas Reinert and Spencer Crowley (Table 1).

| CB/HB 1177 Appointment Requirements   | Commission Member      | Position Title  |
|---|------------------------|---|
| 1. One member appointed by the Governor.  | Noah Valenstein        | Founder, Brightwater Strategies                                     |
| 2. Three members of the Miami-Dade Board of County Commissioners, appointed by the board.   | Jean Monestime         | Commissioner District 2 (represents northern coastal bay)           |
|   | Rebeca Sosa            | Commissioner District 6 (represents inland surrounding Miami River) |
|   | Danielle Cohen Higgins | Commissioner District 8 (represents southern coastal bay)           |
| 3. One member of the Miami-Dade County League of Cities who resides within the boundaries of a city that borders Biscayne Bay, nominated by the league and appointed by the secretary of the Florida Department of Environmental Protection. To the extent practicable, the league must nominate a member from each city that borders Biscayne Bay on a rotating basis. | Tim Meerbott           | Mayor, Town of Cutler Bay   |
| 4. One member of the South Florida Water Management District Governing Board who resides in Miami-Dade County, appointed by the board.  | Charlie Martinez       | Governing Board Member representing Miami-Dade County               |
| 5. One representative of the Florida Department of Environmental Protection, appointed by the agency's secretary.   | Adam Blalock           | Deputy Secretary of Ecosystems Restoration                          |
| 6. One representative of the Florida Fish and Wildlife Conservation Commission, appointed by the commission.  | Thomas Reinert         | South Regional Director   |
| 7. One representative of the Florida Inland Navigation District, appointed by the district.   | Spencer Crowley        | Commissioner representing Miami-Dade County                         |

**Table 1.** Biscayne Bay Commission member composition per establishing legislation.

## **MEETINGS SINCE THE LAST SEMI-ANNUALREPORT**

### **April 8, 2022**

Following the success of the inaugural meeting on Jan. 4, 2022, the Biscayne Bay Commission held its second meeting on April 8, 2022, at Florida International University's Biscayne Bay Campus and via GoTo webinar, welcoming nearly 100 participants.

The commission approved its January meeting minutes.

Commission members viewed presentations on water quality impairments in Biscayne Bay by Florida Department of Environmental Protection (DEP) director for the Division of Environmental Assessment and Restoration (DEAR) Greg DeAngelo; Tampa Bay Estuary Program's Reasonable Assurance Program by the program's Executive Director Ed Sherwood; and Miami-Dade County's (MDC) draft reasonable assurance plan by the county's Chief Bay Officer Irela Bague and Chief Water Scientist Pamela Sweeney.

Commission members heard oral public comments (four in-person and one via webinar); discussed the presentations as they relate to the commission's purpose, specifically agreeing to support Miami-Dade County's selected location for its reasonable assurance plan; reviewed their January homework, including their priority projects and financial resources available to assist with bay projects; and discussed and approved a process for the drafting and submittal of their report before adjourning.

One written comment was provided in person. Commission members were provided with a full meeting summary including all questions and comments.

### **July 27, 2022**

The Biscayne Bay Commission held its third meeting on July 27, 2022, at Florida International University's Biscayne Bay Campus and via GoToWebinar, welcoming nearly 100 participants. Meeting minutes are under development and will be posted to [ProtectingFloridaTogether.gov/BiscayneBayCommission](https://ProtectingFloridaTogether.gov/BiscayneBayCommission), when available. The meeting included an overview of Miami-Dade County's draft Reasonable Assurance Plan (RAP) for Biscayne Bay and the proposed area of focus; a presentation on water quality trends in the RAP's proposed focus area; and a presentation on funding programs and projects to improve the water quality in Biscayne Bay.



## STATUS OF EACH PENDING TASK

Prior to the commission's inaugural meeting, initial steps were taken to make progress on the six tasks outlined below, taken from the establishing legislation. The commission has and will continue to discuss these tasks and how to address each at upcoming meetings. Tasks include:

- (a) Consolidate existing plans, programs and proposals, including the recommendations outlined in the June 2020 Biscayne Bay Task Force report, into a coordinated strategic plan for improvement of Biscayne Bay and the surrounding areas, addressing environmental, economic, social, recreational and aesthetic issues. The commission will continue to monitor the progress of each element of the plan and will revise the plan regularly.
  - Each commission member is tasked with bringing policy, ordinance and project ideas to future meetings for discussion.
  - The commission discussed looking at the project lists provided by the MDC Watershed Advisory Board and determining where there is an overlap to bolster protection of the bay.
  - A suggestion was made at the inaugural meeting to include a library (or link to one already existing) to provide access to the documents (e.g., Biscayne Bay Aquatic Preserve Management Plan, Biscayne Bay Task Force Recommendations, etc.) that the commission will consolidate on its website. DEP continues to evaluate possibilities.
  - The commission will consider the MDC's draft reasonable assurance plan, the first strategic plan for review, which is under development and expected to be finalized in mid-September. In the meantime, the commission has identified its priority projects, which will be used in the strategic plan review.
- (b) Prepare a consolidated financial plan using the projected financial resources available from the different jurisdictional agencies. The commission will monitor the progress of each element of the plan and revise the plan regularly.
  - The commission decided at its first meeting to bring information to the next meeting on the resources each member agency can bring to bear or is otherwise aware of (e.g., grant programs they do not administer).
  - A suggestion was made at the inaugural meeting for member agencies to coordinate their lobbying efforts to make their individual requests more effective. Members with lobbyists will follow up.
  - Based on commission direction at the inaugural meeting, member agencies have developed a consolidated financial plan by listing the financial resources each member agency has available to bear on future Biscayne Bay priority projects. The [consolidated financial report](#) is available online and is included here as [Attachment B](#).
- (c) Provide technical assistance and support as needed to help implement each element of the strategic and financial plans.
  - After hearing the presentations at their first meeting, commission members requested additional technical support and data from DEP's DEAR regarding Biscayne Bay impairments, water quality hotspot maps and analyses by basin. To achieve this, DEAR has presented information to the commission at each of the meetings.
  - Discussion at the commission's inaugural meeting resulted in a request to the Florida Department of Transportation for technical support regarding the agency's plans to address sea level rise along the causeways transiting Biscayne Bay and discussion of ways to build resilience (e.g., living shorelines) and restoration (e.g., improved water flow) into their plans. This presenter/topic is being explored for a future meeting.

- Commission members also discussed calling upon the state of Florida's Clean Waterways Act Stormwater Technical Advisory Committee for assistance. This presenter/topic is being explored for a future meeting.
- (d) Work in consultation with the U.S. Department of the Interior.
- No updates to report. See January 2022 report.
- (e) Provide a forum for exchange of information.
- Commission meetings are public forums conducted in accordance with the Sunshine Law. Members of the public may submit written and oral comments during the meeting or [email comments after the meeting](#).
  - A suggestion was made at the inaugural meeting for the commission to plan a site visit to Biscayne Bay. DEP is evaluating options for planning a site visit in accordance with the Sunshine Law.
  - Coordination with the MDC Watershed Advisory Board:
    - MDC's chief bay officer is invited to provide an overview/update from the board at the MDC Watershed Advisory Board. Updates are available on the Biscayne Bay webpage. DEP also furnishes meeting summaries. In addition, the commission discussed these two groups magnifying awareness of the issue at hand and amplifying the potential for environmental change by using the same talking points for projects where all levels of government aggregate actions focus on one basin. Talking points will be co-developed once priority projects have been selected.
- (f) Act as a clearinghouse for public information.
- The Biscayne Bay Commission website serves as a clearinghouse of information on the bay and the commission.
  - This and future reports [as well as agendas and meeting materials](#) will be posted online.

The Biscayne Bay Commission will continue to meet quarterly.



# Attachment A - Project Tracker

July 2022 Biscayne Bay Commission Semi-Annual Report

| Lead Entity  | Partners   | Unique Project ID | Project Name   | Project Description  | July 2022 Semi-Annual Update  | Project Type                   | Project Status | Estimated Start Date | Estimated Completion Date |
|--|--|-------------------|--|--|---|--------------------------------|----------------|----------------------|---------------------------|
| Coral Gables, City of                                |  | BB038             | Sustainability and Climate Resiliency Goals                                    | Identified sustainability and climate resiliency as a top priority in 2021. Allocated more than \$6 million to a sea-level rise mitigation fund and expects to set aside \$100 million by 2040.  |   | Governance                     | Completed      |                      |                           |
| Coral Gables, City of                                |  | BB037             | Fertilizer Ordinance   | Adopted the Florida Friendly Fertilizer Ordinance  |   | Ordinance                      | Ongoing        |                      |                           |
| Coral Gables, City of                                | Florida Department of Environmental Protection (DEP) | BB012             | Coral Gables Waterway / Biscayne Bay Water Quality Improvements - Construction | Project will construct baffles and replace existing solid pipes with exfiltration trenches to treat and redirect stormwater runoff into an underground porous limestone layer.   |   | Stormwater                     | Planned        |                      |                           |
| Coral Gables, City of                                | DEP  | BB013             | King's Bay Septic-to-Sewer Conversion  | Project proposes removal of approximately 150 septic tanks that currently receive sewer flows from the King's Bay community.   |   | Septic-to-Sewer                | Planned        |                      |                           |
| Cutler Bay, City of                                  |  | BB030             | Land Acquisition   | Purchased 8.45 acres of buffer land for conservation purposes adjacent to Biscayne Bay restoration projects  |   | Land Acquisition               | Completed      |                      |                           |
| Cutler Bay, City of                                  | South Florida Water Management District (SFWMD)      | BB031             | Wetland Restoration Adjacent to BBCW   | Working to restore a 53-acre wetland adjacent to Biscayne Bay Coastal Wetlands in partnership with SFWMD   |   | Hydrologic Restoration         | Ongoing        |                      |                           |
| Cutler Bay, City of                                  |  | BB126             | Stormwater Management  | Rated FEMA CRS Class 4 for improving town's ability to mitigate potential flooding. \$4 million set aside for stormwater management.   | Rated FEMA CRS Class 4 for improving town's ability to mitigate potential flooding. \$4 million set aside for stormwater management.  | Stormwater                     | Updated        |                      |                           |
| Cutler Bay, City of                                  |  | BB127             | Biscayne Bay Southern Everglades Ecosystem Restoration Footprints              | Taken an active role in preventing incompatible development that would conflict with restoration plans, including purchasing land and passing resolutions to protect the Biscayne Bay Coastal Wetlands Project and Biscayne Bay Southern Everglades Ecosystem Restoration footprints.  | Taken an active role in preventing incompatible development that would conflict with restoration plans, including purchasing land and passing resolutions to protect the Biscayne Bay Coastal Wetlands Project and Biscayne Bay Southern Everglades Ecosystem Restoration footprints. | Natural System Restoration     | Updated        |                      |                           |
| Cutler Bay, City of                                  |  | BB128             | Environmentally Endangered Lands Program                                       | Replenishing funding for the Environmentally Endangered Lands Program  | Replenishing funding for the Environmentally Endangered Lands Program   | Funding                        | Updated        |                      |                           |
| Florida Department of Environmental Protection (DEP) |  | BB043             | Oleta River State Park Seagrass Restoration                                    | Oleta River State Park has performed 2.3 acres of seagrass restoration. A time zero benthic survey report is on file including the collected data in tabular format and a GIS map for visual representation of the existing seagrass resources within the project area.  |   | Natural System Restoration     | Completed      |                      |                           |
| Florida Department of Environmental Protection (DEP) |  | BB044             | Oleta River State Park Septic Abatement  | Three park facilities have been taken off septic and connected to sewer.   |   | Septic-to-Sewer                | Completed      |                      |                           |
| Florida Department of Environmental Protection (DEP) |  | BB041             | Turbidity Criterion  | The Water Quality Standards Section has proposed revised turbidity criterion language as part of the department's triennial review of the water quality standards. The proposed revised turbidity criterion would provide additional protections for corals and coral habitats.  |   | Data Collection and Evaluation | Ongoing        |                      |                           |
| Florida Department of Environmental Protection (DEP) |  | BB042             | Water Quality Analysis   | The Department, through the Biscayne Bay Aquatic Preserve (BBAP) and the Division of Environmental Assessment and Restoration (DEAR) provide technical and analytical support in response to significant Biscayne Bay seagrass losses. DEAR staff also participate in Biscayne Bay fish kill and algal bloom response coordination calls. BBAP expanded its datasonde network into the Miami River, establishing two more sites along with the three existing datasonde sites in the Little River watershed. With the current datasonde network, BBAP has attained the largest continuously monitoring network by an aquatic preserve in the state. BBAP additionally has monthly water quality bottle grab sampling of 24 sites for tracking of 39 nutrients, septic tracers, pharmaceuticals, herbicides, insecticides and fungicides. |   | Data Collection and Evaluation | Ongoing        |                      |                           |
| Florida Department of Environmental Protection (DEP) | FWCC   | BB045             | Oleta River State Park Mangrove Restoration                                    | Restore two remnant mangrove systems in the park. These wetlands were impounded within the landscape during large-scale dredging and filling associated with coastal development in the 1950s and have been stressed due to failure of hydrologic connections to tidal flow. This project proposes to improve the function of the two die-off areas, totaling 26.7 acres of mangrove habitat, by reestablishing tidal flow through the maintenance or replacement of culverts.   |   | Hydrologic Restoration         | Ongoing        |                      |                           |

# Attachment A - Project Tracker

| Lead Entity  | Partners | Unique Project ID | Project Name   | Project Description   | July 2022 Semi-Annual Update   | Project Type                   | Project Status | Estimated Start Date | Estimated Completion Date |
|--|----------|-------------------|--|---|--|--------------------------------|----------------|----------------------|---------------------------|
| Florida Department of Environmental Protection (DEP) |          | BB046             | Bill Baggs Cape Florida State Park Beach Cleanup                       | Over 4,000 volunteers have participated in coastal cleanups in 2021, removing tons of marine debris from the shorelines.  |  | Marine Debris                  | Ongoing        |                      |                           |
| Florida Department of Environmental Protection (DEP) |          | BB047             | Barnacle Historic State Park Stormwater Runoff and Erosion Plan        | The park's citizen support organization (CSO) hired a landscape architect to create a stormwater runoff and erosion plan. The Barnacle is now working with the Florida Park Service Bureau of Design and Construction and the city of Miami on permitting   |  | Stormwater                     | Ongoing        |                      |                           |
| Florida Department of Environmental Protection (DEP) |          | BB048             | State Park Education   | Florida's state parks, including Oleta River, Bill Brags Cape Florida, and Barnacle Historic State Parks maintain stewardship of the state park lands, which includes public education  |  | Education                      | Ongoing        |                      |                           |
| Florida Department of Environmental Protection (DEP) |          | BB049             | State Park Litter and Marine Debris Removal                            | Florida's state parks, including Oleta River, Bill Brags Cape Florida, and Barnacle Historic State Parks maintain stewardship of the state park lands, which includes litter and marine debris removal  |  | Marine Debris                  | Ongoing        |                      |                           |
| Florida Department of Environmental Protection (DEP) |          | BB050             | State Park Invasive Plant Management                                   | Florida's state parks, including Oleta River, Bill Brags Cape Florida, and Barnacle Historic State Parks maintain stewardship of the state park lands, which includes invasive removal  |  | Natural System Restoration     | Ongoing        |                      |                           |
| Florida Department of Environmental Protection (DEP) |          | BB051             | Biscayne Bay Aquatic Preserve Litter and Marine Debris Removal         | Assistance in derelict vessel reporting and illegal crab pot removals during the FWC 2021 crab pot closure assisted the restoration of submerged lands, while the bay's islands were targeted through three major efforts. BBAP continued its decades-long history of hosting an International Coastal Cleanup site, which has removed 1,000 pounds of marine debris. Secondly, BBAP's Adopt-an-Island Program saw 16 cleanups from its adopters, who removed almost 2,000 pounds of debris from the bay's islands. This past fall, BBAP initiated a National Oceanic and Atmospheric Administration (NOAA) Marine Debris grant funded contract to remove Hurricane Irma debris from 13 of BBAP's islands. Six islands have been cleaned with the removal of almost 10 tons of debris with the remaining seven to be completed in early 2022. |  | Marine Debris                  | Ongoing        |                      |                           |
| Florida Department of Environmental Protection (DEP) |          | BB052             | Biscayne Bay Aquatic Preserve's Rookery Island Bird Monitoring Program | BBAP established the only island-based bird count, BBAP's Rookery Island Bird Monitoring Program  |  | Data Collection and Evaluation | Ongoing        |                      |                           |
| Florida Department of Environmental Protection (DEP) | FWCC     | BB054             | Stony Coral Tissue Loss Disease Response                               | Efforts include coral rescue, intervention experiments, coral restoration trials, coral disease monitoring, strategic sampling and laboratory analyses, and data management.  |  | Data Collection and Evaluation | Ongoing        |                      |                           |
| Florida Department of Environmental Protection (DEP) |          | BB053             | Biscayne Bay Aquatic Preserve Sponge Propagation Project               | A water quality restoration project achieved via sponge propagation will provide examples of water quality benefits from expanding the ecosystem services of a group of species that currently exist in the bay and provide benefits to other protected species, such as seagrasses and corals. This project, the first of its kind in Biscayne Bay, will be executed without disturbing seagrass habitat by utilizing existing bay resources and salvaging sponges removed during construction projects.   |  | Natural System Restoration     | Planned        |                      |                           |
| Florida Department of Environmental Protection (DEP) |          | BB133             | Coral Protection and Restoration (CPR) Program                         | CPR within DEP's office of Resilience and Coastal Protection administers state funds appropriated for the protection and restoration of Florida's Coral Reef, including the reduction of local stressors like land-based sources of pollution. In FY 2020-21, \$10 million in grant funding was awarded to Miami-Dade County to support identification of pollution hotspots; construction solutions leading to reduced stormwater and wastewater related nutrient inputs to surface waters of the Biscayne Bay Aquatic Preserves, and biological restoration in support of protecting Florida's Coral Reef.  | CPR within DEP's office of Resilience and Coastal Protection administers state funds appropriated for the protection and restoration of Florida's Coral Reef, including the reduction of local stressors like land-based sources of pollution. In FY 2020-21, \$10 million in grant funding was awarded to Miami-Dade County to support identification of pollution hotspots; construction solutions leading to reduced stormwater and wastewater related nutrient inputs to surface waters of the Biscayne Bay Aquatic Preserves, and biological restoration in support of protecting Florida's Coral Reef. | Funding                        | Updated        |                      |                           |
| Florida Department of Environmental Protection (DEP) |          | BB134             | Oleta River State Park Exotic Plant Removal and Intracoastal Cleanup   | The park's citizen support organization (CSO) facilitates native plantings and provides educational programs and events together with park staff and partners.  | The park's citizen support organization (CSO) facilitates native plantings and provides educational programs and events together with park staff and partners.   | Education                      | Updated        |                      |                           |

# Attachment A - Project Tracker

| Lead Entity   | Partners  | Unique Project ID | Project Name  | Project Description   | July 2022 Semi-Annual Update  | Project Type               | Project Status | Estimated Start Date | Estimated Completion Date |
|---|---|-------------------|---|---|---|----------------------------|----------------|----------------------|---------------------------|
| Florida Department of Environmental Protection (DEP)    | FWC   | BB135             | Oleta River State Park Resource Management Project      | Oleta River State Park has started a resource management project on one of the main bike trails removing approximately 28.5 acres of invasive Australian pines and other invasive exotic plant species. The area will be mulched and replanted with native species to provide a diversity of plant life, and an increased abundance of food resources that will increase native wildlife utilization of the park. | Oleta River State Park has started a resource management project on one of the main bike trails removing approximately 28.5 acres of invasive Australian pines and other invasive exotic plant species. The area will be mulched and replanted with native species to provide a diversity of plant life, and an increased abundance of food resources that will increase native wildlife utilization of the park. | Natural System Restoration | Updated        |                      |                           |
| Florida Department of Environmental Protection (DEP)    |   | BB136             | Barnacle Historic State Park Annual Discussion          | Annual discussion with district biologists to identify the park's natural and cultural resource needs and goals.  | Annual discussion with district biologists to identify the park's natural and cultural resource needs and goals.  | Natural System Restoration | Updated        |                      |                           |
| Florida Department of Environmental Protection (DEP)    |   | BB137             | Barnacle State Park Volunteer Workdays                  | Hosted several volunteer workdays   | Hosted several volunteer workdays   | Education                  | Updated        |                      |                           |
| Florida Department of Environmental Protection (DEP)    |   | BB138             | Barnacle State Park Mangrove Maintenance Trimming Needs | Worked with DEP and the Department of Regulatory and Economic Resources Division of Environmental Management on mangrove maintenance trimming needs   | Worked with DEP and the Department of Regulatory and Economic Resources Division of Environmental Management on mangrove maintenance trimming needs   | Natural System Restoration | Updated        |                      |                           |
| Florida Department of Environmental Protection (DEP)    |   | BB139             | Barnacle State Park Exotics Removal                     | Continued work on exotics removal by Rangers  | Continued work on exotics removal by Rangers  | Natural System Restoration | Updated        |                      |                           |
| Florida Department of Environmental Protection (DEP)    |   | BB140             | Barnacle State Park Litter Removal                      | Park staff routinely remove litter that floats on the tide, disposing to landfills.   | Park staff routinely remove litter that floats on the tide, disposing to landfills.   | Natural System Restoration | Updated        |                      |                           |
| Florida Department of Environmental Protection (DEP)    |   | BB141             | Barnacle State Park Iguana Removal                      | Friends organization assisted with iguana removal efforts.  | Friends organization assisted with iguana removal efforts.  | Natural System Restoration | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWC) | Biscayne National Park (BNP)  | BB154             | Everglades Ecosystem Restoration                        | Biscayne Bay and Southeastern Everglades Ecosystem Restoration  | Biscayne Bay and Southeastern Everglades Ecosystem Restoration  | Programmatic               | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWC) | Miami-Dade Back Bay Coastal Storm Risk Management Feasibility Study | BB155             |   | Teamed with Miami-Dade Back Bay Coastal Storm Risk Management Feasibility Study promoting the use of nature-based features (e.g., mangrove restoration and living shorelines).  | Teamed with Miami-Dade Back Bay Coastal Storm Risk Management Feasibility Study promoting the use of nature-based features (e.g., mangrove restoration and living shorelines).  | Programmatic               | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWC) | U.S. Army Corps of Engineers  | BB156             | South Atlantic Coastal Study                            | Teamed with U.S. Army Corps of Engineers for the South Atlantic Coastal Study.  | Teamed with U.S. Army Corps of Engineers for the South Atlantic Coastal Study.  | Programmatic               | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWC) | Miami Waterkeeper   | BB157             | Biscayne Bay Science Coordination                       | Responded to 2019 fish kills in the northern bay  | Responded to 2019 fish kills in the northern bay  | Programmatic               | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWC) |   | BB158             | Bill Sadowski Virginia Key Critical Wildlife Area       | FWC staff monitor and maintain the Bill Sadowski Virginia Key Critical Wildlife Area, which protects approximately 700 acres of foraging habitat for shorebirds, wading birds, manatees and other marine life. It includes a no entry zone to ensure manatee and seagrass protection.   | FWC staff monitor and maintain the Bill Sadowski Virginia Key Critical Wildlife Area, which protects approximately 700 acres of foraging habitat for shorebirds, wading birds, manatees and other marine life. It includes a no entry zone to ensure manatee and seagrass protection.   | Programmatic               | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWC) |   | BB159             | Manatee rescue and carcass salvage                      | FWC has multiple statewide or regional programs that intersect with Biscayne Bay including the manatee rescue and carcass salvage program.  | FWC has multiple statewide or regional programs that intersect with Biscayne Bay including the manatee rescue and carcass salvage program.  | Programmatic               | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWC) |   | BB160             | Sea Turtle Stranding and Salvage Network                | FWC has multiple statewide or regional programs that intersect with Biscayne Bay including the sea turtle stranding and salvage network program.  | FWC has multiple statewide or regional programs that intersect with Biscayne Bay including the sea turtle stranding and salvage network program.  | Programmatic               | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWC) |   | BB161             | National Fish and Wildlife Program                      | Early detection rapid response efforts and lionfish removal programs.   | Early detection rapid response efforts and lionfish removal programs.   | Programmatic               | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWC) |   | BB162             | Artificial Reef Program                                 | Providing annual financial grants to local governments and others for new reef construction and monitoring.   | Providing annual financial grants to local governments and others for new reef construction and monitoring.   | Programmatic               | Updated        |                      |                           |

# Attachment A - Project Tracker

| Lead Entity  | Partners                     | Unique Project ID | Project Name  | Project Description  | July 2022 Semi-Annual Update  | Project Type               | Project Status | Estimated Start Date | Estimated Completion Date |
|--|------------------------------|-------------------|---|--|---|----------------------------|----------------|----------------------|---------------------------|
| Florida Fish and Wildlife Conservation Commission (FWC)  |                              | BB163             | Office of Boating and Waterways Waterway Markers                      | Oversees and coordinates statewide regulatory waterway markers. Waterway markers are routinely surveyed for accuracy and damage. Missing, damaged or incorrect signage is reported to the FWC toll free number or website.   | Oversees and coordinates statewide regulatory waterway markers. Waterway markers are routinely surveyed for accuracy and damage. Missing, damaged or incorrect signage is reported to the FWC toll free number or website.  | Programmatic               | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWC)  |                              | BB164             | Office of Boating and Waterways Derelict Vessel Removal Program       | The Derelict Vessel (DV) Removal Program provides a means for counties and municipalities to apply for grant funds to remove vessels from their communities' waters. More information on the grants can be found at the FWD Derelict Vessel Removal Grant Program. FWC grant funds helped close 45 DV cases, with 41 currently open in Miami-Dade County. Most DV cases are in Biscayne Bay or attached waterways.   | The Derelict Vessel Removal Program provides a means for counties and municipalities to apply for grant funds to remove vessels from their communities' waters. More information on the grants can be found at the FWD Derelict Vessel Removal Grant Program. FWC grant funds helped close 45 DV cases, with 41 currently open in Miami-Dade County. Most DV cases are in Biscayne Bay or attached waterways. | Programmatic               | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWC)  |                              | BB166             | Fisheries Dependent Monitoring  | FWC's Fish and Wildlife Research Institute monitors fisheries catches through angler interviews (recreational) and at fish houses (commercial)   | Standardized sampling continues   | Programmatic               | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWC)  | Biscayne National Park (BNP) | BB167             | BNP Fisheries Monitoring  | FWC and BNP are monitoring size and abundance for a suite of selected marine fisheries species, with a goal to increase the size and abundance of these species by 20% relative to the baseline, through park-specific management changes. Monitoring is conducted via Reef-Fish Visual Census (RVC) techniques.   | FWC did not conduct any RVC surveys within BNP from 2020 through 2021 due to COVID-19, so sampling was conducted solely by BNP staff.   | Programmatic               | Updated        |                      |                           |
| Florida Fish and Wildlife Conservation Commission (FWCC) |                              | BB055             | Boating and Resource Citations and Warnings                           | FWC's Division of Law Enforcement patrols, protects and preserves Florida's natural environment, with officers constantly "in the woods and on the water." FWC law enforcement has a strong presence on the waters of Biscayne Bay.  | In Miami-Dade County, from Jan. 1 - June 1, 2022, FWC officers issued the following boating and resource citations and warnings, a large portion of which were in Biscayne Bay, including 1,979 boating citations; 313 resource citations; and 514 warnings   | Programmatic               | Updated        |                      |                           |
| Florida Inland Navigation District (FIND)                |                              | BB056             |   | The Waterway Assistance Program is a grant program established by the Florida Legislature and the District for the purpose of financially cooperating with local governments to alleviate problems associated with the Atlantic Intracoastal Waterway and associated waterways within the District. Waterway related projects must be located on natural, navigable waterways within the District. Eligible waterway related projects include navigation channel dredging, channel markers, navigation signs or buoys, boat ramps, docking facilities, fishing & viewing piers, waterfront boardwalks, inlet management, environmental education, law enforcement equipment, boating safety programs, beach re-nourishment, dredge material management, environmental mitigation, and shoreline stabilization.                               |   | Programmatic               | Ongoing        |                      |                           |
| Florida Inland Navigation District (FIND)                | Multiple                     | BB060             | Small-Scale Derelict Vessel Removal Program                           | Derelict Vessels in District waterways can cause navigation safety and environment problems. The District provides assistance funding up to \$50,000 per county per year to assist other governments with derelict vessel removal projects.  |   | Marine Debris              | Ongoing        |                      |                           |
| Florida Inland Navigation District (FIND)                | Miami-Dade County            | BB061             | Waterfront Recreational Access Plan                                   | In 2018, FIND awarded Miami-Dade County a \$100,000 grant to develop a master plan for public access to county waterways. The plan's purpose is to "provide an interconnected blueways system with improved public access and recreational opportunities to Biscayne Bay and Miami-Dade County's waterways in order to encourage residents and visitors to enjoy, responsibly use and protect these unique natural ecosystems." When complete, the access plan will provide local, state and regional governmental interests with a roadmap to increase public access to the bay.  |   | Governance                 | Ongoing        |                      |                           |
| Florida Inland Navigation District (FIND)                |                              | BB062             | Flood Shoal and Intracoastal Waterway (IWW) Channel at Haulover Inlet | The Bal Harbor Shore Protection project includes 90,000 CY obtained from dredging and approximately 110,000 CY from truck haul. Material will be placed on the beach between R-27 and R-31.3. Out of the 90,000 CY being dredged, approximately 25% will be dredged from the Bakers Haulover reach of the Intracoastal Waterway. This material is located within a problematic flood shoal that is north of the inlet. The removal of this material from the flood shoal has multiple benefits. First, material removal from the flood shoal will act as advance maintenance, lessening the shoaling that would be expected to be deposited into the IWW. Second, the dredging of material from the IWW and placement on the beach is a prime example of beneficial use, removing material at the benefit of one project to benefit another. |   | Natural System Restoration | Ongoing        |                      |                           |

# Attachment A - Project Tracker

| Lead Entity   | Partners          | Unique Project ID | Project Name  | Project Description  | July 2022 Semi-Annual Update  | Project Type                   | Project Status | Estimated Start Date | Estimated Completion Date |
|---|-------------------|-------------------|---|--|---|--------------------------------|----------------|----------------------|---------------------------|
| Florida Inland Navigation District (FIND)                   | Multiple          | BB063             | FIND Cooperative Assistance Program   | Cooperative Assistance Programs are grant programs established for the purpose of financially cooperating with local governments carrying out public navigation, increasing boater access, local and regional mooring field management, public recreation/waterfront parks, inlet management, environmental education, and boating safety projects, directly related to the waterways and to alleviate problems associated with the Atlantic Intracoastal Waterway and associated waterways within the District. |   | Programmatic                   | Ongoing        |                      |                           |
| Florida Inland Navigation District (FIND)                   | Multiple          | BB064             | FIND Interlocal Agreement Program   | The Waterway Assistance Program is a grant program established by the Florida Legislature and the District for the purpose of financially cooperating with local governments to increase public access associated with the Atlantic Intracoastal Waterway and associated waterways within the District.  |   | Programmatic                   | Ongoing        |                      |                           |
| Florida Inland Navigation District (FIND)                   | Miami-Dade County | BB065             | FIND Waterway Cleanup Program   | The waterways in the District can accumulate trash and debris from many sources. The District sponsors voluntary waterway cleanups in each of the 12 counties with Keep Florida Beautiful affiliates as well as Marine Industry Associations and others. Eligible applicants may be funded in accordance with Rule No. 66B-2.016 of the Florida Administrative Code.   |   | Marine Debris                  |                |                      |                           |
| Florida Inland Navigation District (FIND)                   | Multiple          | BB066             | FIND Small-Scale Spoil Island Enhancement and Restoration Program                                       | FIND Small-Scale Spoil Island Enhancement and Restoration Program - The District has elected to develop a Small-Scale Spoil Island Enhancement Program to foster "adoption & stewardship" of these islands. This program is intended to provide general improvements, cleanup and maintenance to these islands. The District intends to seek the most technically sound and cost-effective proposals that specifically address the enhancement, improvement and maintenance of spoil islands of the Waterway.    |   | Natural System Restoration     |                |                      |                           |
| Florida International University - Institute of Environment | Florida DEP       | BB014             | Biscayne Bay and Reef Observation, Interpretation and Prediction System (B-BROIIPS)                     | Project will fill data gaps, build a unified and open data and visualization portal, create predictive models at levels from statistical to mechanistic and then provide the predictions needed for informed management decisions influencing bay and reef.  |   | Data Collection and Evaluation | Planned        |                      |                           |
| Key Biscayne, Village of                                    | Florida DEP       | BB015             | Stormwater Sustainability Pilot Project   | Pilot to demonstrate the effectiveness and benefits of capturing stormwater run-off pollutants captured at the source. Includes installation and monitoring of Ultra-Urban Filters (UUFs), under-grate filter baskets, and curb inlet filters within the K-8 School Basin.   |   | Stormwater                     | Planned        |                      |                           |
| Miami Beach, City of  |                   | BB028             | Climate Initiative  | Established a climate action goal to reach net zero emissions by 2050  |   | Governance                     | Completed      |                      |                           |
| Miami Beach, City of  |                   | BB027             | Plastic Free Ordinance  | Passed a plastic free ordinance, a plastic straw ordinance and an expanded polystyrene ordinance, becoming the first municipality in Florida to do so and was the inspiration for county-wide passage of the Plastic 305 initiative.   |   | Ordinance                      | Ongoing        |                      |                           |
| Miami Beach, City of  |                   | BB029             | Fertilizer Ordinance  | Adopted DEP's model ordinance for fertilizer use for urban landscapes, alongside additional and more stringent standards related to the use of nitrogen and phosphorus-based fertilizers.  |   | Ordinance                      | Ongoing        |                      |                           |
| Miami Shores, Village of                                    | Florida DEP       | BB016             | Miami Shores-NE 8th Avenue Drainage Improvement Project   | This project mitigates flooding during heavy rain events and protects Biscayne Bay. It connects to Biscayne/Blvd./State Road 1 (evacuation route), and planned improvements help ensure that all roads leading to evacuation exit routes remain passable.  |   | Stormwater                     | Planned        |                      |                           |
| Miami Waterkeeper   | Florida DEP       | BB017             | Improving Water Quality in Biscayne Bay through Coordination, Outreach, Monitoring, and Source Tracking | Establish coordination between scientists and agencies for water quality events; monitor fecal indicator bacteria (FIB) in Biscayne Bay weekly; analyze an EPA-funded dataset correlating nutrients, FIB, and land use and generate management recommendations.  |   | Data Collection and Evaluation | Ongoing        |                      |                           |
| Miami, City of  | FIND              | BB057             | Virginia Key Seawall, Dock and Kayak Launch   | The Virginia Key seawall, dock and kayak launch at Shrimper's Lagoon   |   | Recreation                     | Completed      |                      |                           |
| Miami, City of  | FIND              | BB058             | Spring Garden Park Seawall and Kayak Launch   | Spring Garden Park Seawall and Kayak Launch  |   | Recreation                     | Completed      |                      |                           |
| Miami, City of  | FIND              | BB059             | Dinner Key Marina Redevelopment   | Dinner Key Marina Redevelopment  |   |                                | Completed      |                      |                           |
| Miami-Dade County (MDC)                                     |                   | BB106             | BBTF-5D   | Conduct an analysis of marine debris in Biscayne Bay   | City of Miami partnership with Ocean Conservancy on a Circularity Assessment Protocol (CAP) a tool that can give us a clear picture of the lifecycle of plastics and debris in the city of Miami. | Marine Debris                  | Completed      | Jun-21               |                           |
| Miami-Dade County (MDC)                                     |                   | BB125             | BBTF-7G   | Identify and establish dedicated and recurring funding sources to pay for marine debris prevention and removal activities  | The Biscayne Bay Environmental Enhancement Trust Fund has been identified as a funding source in addition to the general fund.  | Funding                        | Completed      | 2021                 |                           |
| Miami-Dade County (MDC)                                     |                   | BB001             | MDC's Chief Bay Officer   | Chief Bay Officer acts as an advisor to the Mayor and Board of County Commissioners and advocates on matters related to the health and recovery of Biscayne Bay.   |   | Governance                     | Completed      |                      | Jan-21                    |
| Miami-Dade County (MDC)                                     |                   | BB002             | MDC's Biscayne Bay Task Force   | Task force made up of nine members consisting of professionals and the community at-large, who review relevant data, prior studies and reports related to Biscayne Bay and determine how various issues may affect residents and property owners.  |   | Governance                     | Completed      |                      | Jun-20                    |

# Attachment A - Project Tracker

| Lead Entity             | Partners                 | Unique Project ID | Project Name                                     | Project Description   | July 2022 Semi-Annual Update  | Project Type  | Project Status | Estimated Start Date | Estimated Completion Date |
|-------------------------|--------------------------|-------------------|--|---|---|---------------|----------------|----------------------|---------------------------|
| Miami-Dade County (MDC) |                          | BB003             | MDC's Biscayne Bay Website and Report Card       | MDC provides website as a public service to its residents and visitors. The Biscayne Bay Report Card evaluates water quality, habitat, and fisheries in Biscayne Bay as the three representative aspects of the Bay's overall ecological health.  |   | Education     | Completed      |                      | Apr-21                    |
| Miami-Dade County (MDC) |                          | BB005             | "Protect Biscayne Bay" Specialty License Plate   | MDC Partnered with the Miami Foundation and unveiled a Protect Biscayne Bay specialty license plate. Funds from the sale of the license plate will be directed to the Miami Foundation who will house the Biscayne Bay Recovery Fund.   |   | Education     | Completed      |                      | Jun-21                    |
| Miami-Dade County (MDC) |                          | BB006             | Biscayne Bay Watershed Management Advisory Board | The Biscayne Bay Watershed Management Advisory board was created by the Board of County Commissioners (BCC), through Ordinance No 21-72 as recommended by the Biscayne Bay Task Force. It establishes a permanent board to advise the BCC and the County Mayor on issues related to Biscayne Bay. |   | Governance    | Completed      |                      | Nov-21                    |
| Miami-Dade County (MDC) |                          | BB080             | BBTF-2A  | Establish by ordinance a Biscayne Bay Watershed Management Board (WMB)  | Adopted Ordinance to create and establish the Miami-Dade County Biscayne Bay Watershed Management Advisory Board  | Governance    | Completed      | Jul-21               | Ongoing                   |
| Miami-Dade County (MDC) | Multiple Cities and FDEP | BB067             | BBTF-1A  | Reasonable Assurance Plan (RAP) for Biscayne Bay with DEP.  | Currently developing Reasonable Assurance Plan for Biscayne Bay with FDEP for the first phase.  | Water Quality | Ongoing        | Apr-22               |                           |
| Miami-Dade County (MDC) |                          | BB068             | BBTF-1B  | Screenshot below:   | Department of Regulatory and Economic Resources Division of Environmental Management (RER DERM) working on calculations pre and post projects in Northern Biscayne Bay through the RAP process.   | Water Quality | Ongoing        | Apr-22               |                           |
| Miami-Dade County (MDC) |                          | BB069             | BBTF-1C  | Activate additional Department of Regulatory and Economic Resources' (RER) resource management functions  | RER DERM created the water resources section and increased staff to focus on Biscayne Bay recovery efforts.   | Water Quality | Ongoing        | 2021                 |                           |
| Miami-Dade County (MDC) |                          | BB070             | BBTF-1D  | County should conduct an immediate assessment of land-based hotspot areas prioritized based on existing, known impairments.   |   | Water Quality | Ongoing        |                      |                           |
| Miami-Dade County (MDC) |                          | BB071             | BBTF-1E  | Review, develop (as needed), implement and enforce local ordinances and policies to attain pollution load reduction goals set forth in the Watershed Restoration Plan (WRP)   | RER DERM currently updating Chapter 24 of the code to improve stormwater and septic systems operations and maintenance  | Water Quality | Ongoing        | Jun-22               |                           |
| Miami-Dade County (MDC) |                          | BB072             | BBTF-1F  | Coordinate, staff and provide an annual budget for comprehensive, centralized Biscayne Bay Watershed data and research coordination and data management infrastructure  | Collaborating with academia and tech industry to develop outline and plan   | Water Quality | Ongoing        | Jan-22               |                           |
| Miami-Dade County (MDC) |                          | BB073             | BBTF-1G  | Undertake and secure funding for new pilot projects and research projects focused on reducing pollutant loads   | Implementing pilot projects with State funding to install additional stormwater grates, smart sensors, baffle boxes, and similar mechanisms and technologies; pilot projects; and research projects.  | Water Quality | Ongoing        | Apr-22               |                           |
| Miami-Dade County (MDC) |                          | BB076             | BBTF-1J  | Initiate and fund studies that illuminate specific knowledge gaps for application toward watershed restoration  | RER DERM currently working on studies with academic partners.   | Water Quality | Ongoing        |                      |                           |
| Miami-Dade County (MDC) |                          | BB077             | BBTF-1L  | Increase compliance of all marinas and commercial operations along waterways  | Chief Bay Officer collaborating with Miami-Dade County Parks and Recreation & Miami-Dade Police Department to improve education and enforcement efforts.  | Water Quality | Ongoing        | 2021                 |                           |
| Miami-Dade County (MDC) |                          | BB078             | BBTF-1M  | Continue to monitor the progress of the October 7th, 2015 Consent Agreement between FP&L and Miami-Dade County  |   | Water Quality | Ongoing        |                      |                           |
| Miami-Dade County (MDC) |                          | BB079             | MDC - S11  | Spoil Island Contract   | Disbursement of \$550,000.00 from Biscayne Bay Environmental Enhancement Trust Fund to conduct environmental enhancement for trash removal on spoil islands in Biscayne Bay.  | Marine Debris | Ongoing        | Apr-22               | Dec-22                    |
| Miami-Dade County (MDC) |                          | BB081             | BBTF-2D  | Develop a formal partnership in the form of a Memorandum of Understanding (MOU) with the SFWMD  | Approved cost-share partnership with the South Florida Water Management District (SFWMD) to update the 2005 Biscayne Bay Economic Study, to bring such partnership agreement to this Board for approval as quickly as possible, and to identify sufficient legally available funds in such agenda item. | Governance    | Ongoing        | May-21               |                           |



# Attachment A - Project Tracker

| Lead Entity             | Partners | Unique Project ID | Project Name | Project Description  | July 2022 Semi-Annual Update   | Project Type   | Project Status | Estimated Start Date | Estimated Completion Date |
|-------------------------|----------|-------------------|--------------|--|--|--|----------------|----------------------|---------------------------|
| Miami-Dade County (MDC) |          | BB082             | BETF-2E      | Enable the alignment and coordination of County departments that takes a holistic, comprehensive approach to Biscayne Bay recovery and resilience  | Chief Bay Officer with the support of the County Mayor are working cross departments to coordinate recovery efforts.   | Governance   | Ongoing        | Jan-21               |                           |
| Miami-Dade County (MDC) |          | BB084             | BETF-3A      | Increase compliance with existing laws to result in the immediate connection of ~12,000 properties to the sewer system   | Miami-Dade Water & Sewer initiated the first phase of connections in northern Biscayne Bay. Currently planning the phase two.  | Infrastructure   | Ongoing        | Jan-22               | Ongoing                   |
| Miami-Dade County (MDC) |          | BB087             | BETF-3D      | Undertake immediate efforts to identify and eliminate all root causes of Sanitary Sewer Overflows (SSO) including inflow and infiltration. Accelerate sewer infrastructure maintenance and upgrades  | Miami-Dade Water & Sewer working with consultant to design redundant sewer mains, identify the most at risk for failure.   | Infrastructure   | Ongoing        | Apr-22               |                           |
| Miami-Dade County (MDC) |          | BB088             | BETF-3E      | Develop and expedite a Condition Assessment and Asset Management Action Plan to document the condition of the County's wastewater system assets and certify all historical "As Built" and/or those not already certified with a focus on identifying horizontal and vertical locations of main wastewater transmission lines | Adopted resolution to undertake an effort to update the historical "As-Built" for County-owned sewer infrastructure that is eight-inches in diameter or greater and which "As-Built": (a) are over 25 years old or (b) were not prepared by a Florida-licensed Professional Land Surveyor. This Board further directs the County Mayor or County's Mayor designee to prioritize the part of this project that focuses on updating the historical "As-Built" for County-owned sewer infrastructure that is eight inches or greater in diameter and located within a quarter mile of any canal or body of water that discharges to Biscayne Bay. | Infrastructure   | Ongoing        | Sep-21               | 2023-2024                 |
| Miami-Dade County (MDC) |          | BB090             | BETF-3G      | Develop a plan to prioritize the retrofitting of stormwater infrastructure within basins with the most substantial water quality and/or habitat degradation issues   | Pilot projects underway  | Infrastructure   | Ongoing        | Apr-22               |                           |
| Miami-Dade County (MDC) |          | BB091             | BETF-3H      | Eliminate direct and indirect stormwater discharges to Biscayne Bay  | 1. Stormwater pilot projects - See item BB073 2. Miami-Dade Water & Sewer Department (WASD) Capital Improvement Plan replacing of sewer mains. 3. updating design standards for septic and stormwater systems.   | Infrastructure   | Ongoing        |                      |                           |
| Miami-Dade County (MDC) |          | BB093             | BETF-3K      | Ensure that new infrastructure projects to address coastal flooding and storm surge that are cost-shared by the County adhere to the recommendations of this Task Force and prioritize Biscayne Bay health and resilience  | MDC Office of Resilience   | Infrastructure   | Ongoing        |                      |                           |
| Miami-Dade County (MDC) |          | BB098             | BETF-4E      | Prioritize existing and identify new green and blue infrastructure approaches and restoration projects   | RER DERM, Office of Resilience working with academia and private sector to review potential solutions for sea level rise.  | Watershed Habitat Restoration and Natural Infrastructure | Ongoing        |                      |                           |
| Miami-Dade County (MDC) |          | BB099             | BETF-4F      | Continue to work with SFWMD and to have the State of Florida allocate the funds necessary to ensure the timely commencement of construction of the Cutler Flow Way in accordance with the project timeline in the Integrated Delivery Schedule.  | Finalizing transfer of property to SFWMD   | Watershed Habitat Restoration and Natural Infrastructure | Ongoing        | Jan-21               | Sep-22                    |
| Miami-Dade County (MDC) |          | BB100             | BETF-4G      | Continue to advocate for funding to support the Biscayne Bay Southern Everglades Ecosystem Restoration (BBSEER) project (also known as the BBCW / C-111)   | MDC adopts urgings annually to adds CERP to legislative package. BBCW Phase 1 final construction and BBSEER planning process have been fully funded.   | Watershed Habitat Restoration and Natural Infrastructure | Ongoing        | Apr-22               |                           |
| Miami-Dade County (MDC) |          | BB102             | BETF-4I      | Accelerate green infrastructure solutions for flooding, resiliency and water quality   | 1. MDC working on building resilience in secondary canal system with elevating canal banks. 2. In partnership with SFWMD to develop strategies to SFWMD's level of service for C7, C8 & C9. 3. Partnering with SFWMD on grant proposals for Innovative Water Technology.   | Watershed Habitat Restoration and Natural Infrastructure | Ongoing        | May-21               |                           |

# Attachment A - Project Tracker

| Lead Entity             | Partners | Unique Project ID | Project Name | Project Description  | July 2022 Semi-Annual Update   | Project Type           | Project Status | Estimated Start Date | Estimated Completion Date |
|-------------------------|----------|-------------------|--------------|--|--|------------------------|----------------|----------------------|---------------------------|
| Miami-Dade County (MDC) |          | BB103             | BBTF-5A      | Create a comprehensive marine debris prevention, reduction, and removal program within DERM and to adequately fund and staff the program   | Received approval from DERM Director's Office to create a scope of work to bid out the development of a comprehensive marine debris plan, to be informed by the goals and objectives identified by the marine debris planning team and to include, at a minimum, the following: 5D, 5E, 5F, and 5G   | Marine Debris          | Ongoing        | Jun-22               |                           |
| Miami-Dade County (MDC) |          | BB104             | BBTF-5B      | Establish a marine debris working group to promote collaboration on ways to reduce marine debris   | RER DERM working with consultant, municipalities and stakeholders to develop plan through workshops and charrettes.  | Marine Debris          | Ongoing        | Jun-22               |                           |
| Miami-Dade County (MDC) |          | BB105             | BBTF-5C      | Through the Miami-Dade County Police Department (MDPD), direct the Marine Patrol Unit to prioritize its commitment to the enforcement of all applicable laws having a nexus to the environmental health of the Bay and its tributaries | Chief Bay Officer collaborated with Miami-Dade Police Department to increase law enforcement presence in Biscayne Bay and tributaries by increased FTEs. MDPD conducted Earth Day clean up activity to show commitment towards Biscayne Bay recovery efforts.  | Marine Debris          | Ongoing        |                      |                           |
| Miami-Dade County (MDC) |          | BB107             | BBTF-5E      | Adopt a target maximum input level policy for trash  |  | Marine Debris          | Ongoing        |                      |                           |
| Miami-Dade County (MDC) |          | BB108             | BBTF-5F      | Evaluate the various existing stormwater outfall systems throughout the county to determine their effectiveness at preventing debris from entering Biscayne Bay  | Creating report to include maintenance of stormwater infrastructure and stormwater mechanisms, including, but not limited to, stormwater drainage on roads and the secondary canal system: what stormwater-related maintenance the County currently undertakes, including the type of maintenance; the general locations; differences in maintenance by location, if differences exist; and the frequency of such maintenance. | Marine Debris          | Ongoing        | Apr-21               |                           |
| Miami-Dade County (MDC) |          | BB109             | BBTF-5G      | Identify and establish dedicated and recurring funding sources to pay for marine debris prevention and removal activities  |  | Marine Debris          | Ongoing        |                      |                           |
| Miami-Dade County (MDC) |          | BB110             | BBTF-6A      | Create a multi-lingual, multi-media campaign and educational outreach program  | Resolution directing the county mayor or county mayor's designee to develop and implement a multilingual, multimedia public awareness campaign and educational outreach program to promote and improve awareness regarding Biscayne bay.   | Education and Outreach | Ongoing        | Apr-21               |                           |
| Miami-Dade County (MDC) |          | BB111             | BBTF-6B      | Leverage the funding in the Community Based Organization grant program to create a special focus on Biscayne Bay education   | RER DERM has updated the program to emphasize focus on Biscayne Bay recovery. OMB finalizing the streamlining of the grant process.  | Education and Outreach | Ongoing        | Sep-21               |                           |
| Miami-Dade County (MDC) |          | BB113             | BBTF-6D      | Implement policies to reduce the amount of locally generated plastic marine debris   | Created a "Plastic Free 305" during Earth Month 2022. The program shall be a voluntary certification program for business in Miami-Dade County to reduce the use of single-use plastics.   | Education and Outreach | Ongoing        | Dec-21               |                           |
| Miami-Dade County (MDC) |          | BB114             | BBTF-6E      | Build upon and increase volunteer clean-up activities county-wide  | adopted resolution to organize and conduct additional Baynanza events to take place year-round, subject to the availability of funding. Such events may include, for example, additional Biscayne Bay cleanup events, environmental education events, and other activities to raise awareness related to Biscayne Bay. Conducted the 40th Annual Baynanza clean up.  | Education and Outreach | Ongoing        | Apr-21               |                           |
| Miami-Dade County (MDC) |          | BB116             | BBTF-6G      | Support a "Living Laboratory for Bay Health"   | FIU and North Bay Village collaborating.   | Education and Outreach | Ongoing        |                      |                           |
| Miami-Dade County (MDC) |          | BB117             | BBTF-6H      | Develop and implement a contractor and lawn care industry training program   | Miami-Dade County partnered with University of Florida - IFAS Extension to develop a Green Industries Best Management Practices for commercial applicators in Miami-Dade County.   | Education and Outreach | Ongoing        | Apr-21               |                           |

# Attachment A - Project Tracker

| Lead Entity             | Partners        | Unique Project ID | Project Name                    | Project Description   | July 2022 Semi-Annual Update  | Project Type           | Project Status | Estimated Start Date | Estimated Completion Date |
|-------------------------|-----------------|-------------------|---------------------------------|---|---|------------------------|----------------|----------------------|---------------------------|
| Miami-Dade County (MDC) |                 | BB118             | BETF-6I                         | Expand the scope of Baynanza to add year-round activities and collaborate on Biscayne Bay Marine Health Summit activities.  | Resolution to organize and conduct additional Baynanza events to take place year-round with 501(c)(3) nonprofit organizations to fund Biscayne Bay cleanup events.  | Education and Outreach | Ongoing        | May-22               |                           |
| Miami-Dade County (MDC) |                 | BB119             | BETF-7A                         | Collaborate with the Miami-Dade Legislative Delegation and the Congressional Delegation to secure annually appropriated funds to support Biscayne Bay watershed restoration   | Miami-Dade County has adopted urgings and engaged in advocacy efforts at the state and federal levels every session focused on projects to improve water quality in the watershed. Since 2020, MDC received ongoing appropriations from state grants and federal grants and earmark requests.                         | Funding                | Ongoing        | 2020                 |                           |
| Miami-Dade County (MDC) |                 | BB120             | BETF-7B                         | Immediately engage in the legislative process to designate a Biscayne Bay License Plate   | During Florida's 2021 legislative session, Senator Ileana Garcia (R) District 37 and State Representative Nick Duran (D) District 112, led a successful bipartisan effort to create the "Protect Biscayne Bay" specialty license plate. We are currently at 274 sales out of 3,000 needed for circulation - 6.21.2022 | Funding                | Ongoing        | Oct-21               |                           |
| Miami-Dade County (MDC) |                 | BB121             | BETF-7C                         | Immediately enter into a cost-share partnership with SFWMD  | See item BETF-2D  | Funding                | Ongoing        | Feb-22               |                           |
| Miami-Dade County (MDC) |                 | BB124             | BETF-7F                         | Develop a mechanism to collaborate with municipalities and work with the development community  | Chief Bay Officer and RER DERM hosted a workshop to coordinate activities prior to the rainy season. In addition, the County hosts Utility Roundtables with municipalities as well.   | Funding                | Ongoing        | Jun-21               |                           |
| Miami-Dade County (MDC) |                 | BB004             | Countywide Fertilizer Ordinance | Florida friendly fertilizer use on urban landscapes ordinance was adopted in April 2021. The ordinance relates to the regulation of fertilizer, creating Chapter 18C of the Code of Miami-Dade County, Florida; regulating fertilizer application and usage in the incorporated and unincorporated areas; adopting the Florida Department of Environmental Protection's Model Ordinance for Florida-Friendly Fertilizer Use for Urban Landscapes; providing for additional and more stringent standards than the model ordinance, including an annual period during which fertilizer application generally would be prohibited and limitations on nitrogen and phosphorus; providing enforcement authority to Department Director; amending section 8CC of the Code; providing for enforcement by civil penalty; directing the County Mayor to conduct an educational campaign, make recommendations as to areas of County parks which could be modified to require less fertilization, make recommendations as to water quality testing related to fertilizer, and to prepare reports for the Board of County Commissioners. |   | Ordinance              | Ongoing        |                      | Apr-21                    |
| Miami-Dade County (MDC) |                 | BB020             | Marine Debris Program           | Create a comprehensive marine debris prevention, reduction and removal program within Miami-Dade County Environmental Resources Management and adequately fund and staff the program.   |   | Marine Debris          | Ongoing        |                      |                           |
| Miami-Dade County (MDC) |                 | BB021             | Marine Debris Enforcement       | Through the Miami-Dade County Police Department, direct the Marine Patrol Unit to prioritize its commitment to the enforcement of all applicable laws having a nexus to the environmental health of the bay and its tributaries.  |   | Marine Debris          | Ongoing        |                      |                           |
| Miami-Dade County (MDC) | Multiple Cities | BB040             | Septic-to-Sewer Task Force      | The Task Force would consist of 13 members (all experts or knowledgeable on issues related to septic tanks, sanitary sewer systems, or septic to sewer conversions). The proposed Task Force would be established solely to advise the County Commission and the County Mayor on septic to sewer conversion in Miami-Dade County.   |   | Governance             | Ongoing        |                      |                           |
| Miami-Dade County (MDC) |                 | BB085             | BETF-3B                         | Develop and enforce septic system design criteria with design parameters  | Draft ordinance was workshopped with industry and at the Biscayne Bay Watershed Management Advisory Board. Pending final action by the Board of County Commissioners  | Infrastructure         | Planned        |                      |                           |

# Attachment A - Project Tracker

| Lead Entity             | Partners                         | Unique Project ID | Project Name  | Project Description   | July 2022 Semi-Annual Update   | Project Type   | Project Status | Estimated Start Date | Estimated Completion Date |
|-------------------------|----------------------------------|-------------------|---|---|--|--|----------------|----------------------|---------------------------|
| Miami-Dade County (MDC) |                                  | BB086             | BBTF-3C   | Initiate a mandatory septic system registration and inspection program  | Staff reviewing feasibility of inspection program. County Commission adopted resolution to create educational campaign for County residents and business owners on septic system maintenance, including, but not limited to, materials that should and should not be placed into a septic system, the type and frequency of recommended maintenance, how to address an improperly functioning septic system, and why proper maintenance is important, such as to avoid financial, health, and environmental contamination risks. | Infrastructure   | Planned        | May-21               |                           |
| Miami-Dade County (MDC) |                                  | BB089             | BBTF-3F   | Enforce the existing code and update the stormwater design criteria to improve effectiveness and include advances in stormwater treatment technologies  | RER DERM currently drafting the update for Chapter 24 of the code to improve stormwater design, operations and maintenance   | Infrastructure   | Planned        | Jun-22               |                           |
| Miami-Dade County (MDC) |                                  | BB094             | BBTF-4A   | Develop ecologically acceptable living shoreline design options that are consistent with the existing Biscayne Bay Aquatic Preserve Act   | Currently identifying consultant to develop a living shoreline guidance document.  | Watershed Habitat Restoration and Natural Infrastructure   | Planned        | Aug-22               | Jul-23                    |
| Miami-Dade County (MDC) |                                  | BB112             | BBTF-6C   | Conduct an educational campaign to inform the public on the proper and improper ways to dispose of trash and the impacts of littering and marine debris to the health and management of Biscayne Bay  | See item BB110   | Education and Outreach   | Planned        | Apr-21               |                           |
| Miami-Dade County (MDC) | Florida DEP                      | BB011             | Phase 2 - Implementation of Biscayne Bay Task Force Recommendations   | Phase 2- Identification of pollution hotspots, construction solutions leading to reduced nutrient inputs to surface waters of Biscayne Bay Aquatic Preserves, and biological restoration in support of protecting Florida's Coral Reef.   | Grant awarded in 2021  | WQ Characterization - Phase 2<br>Wastewater Innovative Technology<br>S2S Education and Outreach<br>Construction<br>Stormwater Innovative Technology                                    | Planned        |                      |                           |
| Miami-Dade County (MDC) | National Park Service Foundation | BB165             | Marine Debris Program   | The Marine Debris Program has contracted with Miami-Dade County to expand and enhance derelict fisheries trap retrieval efforts throughout Biscayne Bay and host local volunteer debris removal events. The Marine Debris Program coordinates with the National Park Service Foundation to fund a marine debris removal and hot spot mapping project. This partnership will facilitate the removal of marine debris both in water and on the shoreline in Biscayne National Park. | The Marine Debris Program has contracted with Miami-Dade County to expand and enhance derelict fisheries trap retrieval efforts throughout Biscayne Bay and host local volunteer debris removal events. The Marine Debris Program coordinates with the National Park Service Foundation to fund a marine debris removal and hot spot mapping project. This partnership will facilitate the removal of marine debris both in water and on the shoreline in Biscayne National Park.  | Programmatic   | Updated        |                      |                           |
| Miami-Dade County (MDC) | Florida DEP                      | BB007             | Biscayne Bay Water Quality Characterization and Pollution Reduction - Implementation of Biscayne Bay Task Force Recommendations | Projects will support identification of pollution hotspots, construction solutions leading to reduced nutrient inputs to surface waters of Biscayne Bay Aquatic Preserves, and biological restoration in support of protecting Florida's Coral Reef.  | Projects will support identification of pollution hotspots, construction solutions leading to reduced nutrient inputs to surface waters of Biscayne Bay Aquatic Preserves, and biological restoration in support of protecting Florida's Coral Reef.   | Task 3 - WQ Characterization<br>Task 4 - Innovative Technology<br>Task 5 - Education and Outreach<br>Task 6 - Septic to Sewer<br>Task 7 - Stormwater Treatment<br>Task 8 - Restoration | Updated        | Jun-21               | Jun-23                    |
| Miami-Dade County (MDC) |                                  | BB074             | BBTF-1H   | Elevate and further amend the Comprehensive Develop Master Plan (CDMP) to further include Biscayne Bay watershed management planning elements   | Elevate and further amend the Comprehensive Develop Master Plan (CDMP) to further include Biscayne Bay watershed management planning elements  | Water Quality  |                |                      |                           |
| Miami-Dade County (MDC) |                                  | BB075             | BBTF-1I   | Conduct a climate change vulnerability assessment for Biscayne Bay  | Conduct a climate change vulnerability assessment for Biscayne Bay   | Water Quality  |                |                      |                           |
| Miami-Dade County (MDC) |                                  | BB083             | BBTF-2F   | Develop a formal partnership in the form of a Memorandum of Understanding (MOU) with the Miami River Commission   |  | Governance   |                |                      |                           |
| Miami-Dade County (MDC) |                                  | BB092             | BBTF-3I   | Set policy that all As-Builts/Record Drawings are done and certified by a Florida Professional Surveyor and Mapper qualified and registered to do work in Miami-Dade County   |  | Infrastructure   |                |                      |                           |
| Miami-Dade County (MDC) |                                  | BB095             | BBTF-4B   | Raise awareness of the value of mangroves through a homeowner education campaign  |  | Watershed Habitat Restoration and Natural Infrastructure   |                |                      |                           |

# Attachment A - Project Tracker

| Lead Entity                                    | Partners          | Unique Project ID | Project Name   | Project Description   | July 2022 Semi-Annual Update  | Project Type   | Project Status | Estimated Start Date | Estimated Completion Date |
|--|-------------------|-------------------|--|---|---|--|----------------|----------------------|---------------------------|
| Miami-Dade County (MDC)                        |                   | BB096             | BBTF-4C  | Increase enforcement of existing rules for protecting existing mangroves and mangrove shorelines  |   | Watershed Habitat Restoration and Natural Infrastructure |                |                      |                           |
| Miami-Dade County (MDC)                        |                   | BB097             | BBTF-4D  | Identify vulnerable properties along the coastline and partner with municipalities to focus on public properties and private property owners to create a voluntary Mangrove Protection and Restoration Zone Program |   | Watershed Habitat Restoration and Natural Infrastructure |                |                      |                           |
| Miami-Dade County (MDC)                        |                   | BB101             | BBTF-4H  | Establish seagrass targets and maintenance requirements   |   | Watershed Habitat Restoration and Natural Infrastructure |                |                      |                           |
| Miami-Dade County (MDC)                        |                   | BB122             | BBTF-7D  | Collaborate with Florida Inland Navigational District (FIND) to immediately identify projects that will improve water quality and restoration of the Biscayne Bay watershed   |   | Funding  |                |                      |                           |
| Miami-Dade County (MDC)                        |                   | BB123             | BBTF-7E  | Leverage municipal financial resources through interlocal agreements to supplement County funds   |   | Funding  |                |                      |                           |
| Miami-Dade Water and Sewer Department          | Florida DEP SED   | BB143             | Miscellaneous Electrical Improvements  | Miscellaneous electrical improvements at MDWASD Central District treatment plant.   | Miscellaneous electrical improvements at MDWASD Central District treatment plant.   | Water Quality  | Completed      |                      |                           |
| Miami-Dade Water and Sewer Department          | Florida DEP SED   | BB144             | Replacement of Pumps   | Replacement of pumps at one of the effluent pump stations at Central District treatment plant.  | Replacement of pumps at one of the effluent pump stations at Central District treatment plant.  | Water Quality  | Completed      |                      |                           |
| Miami-Dade Water and Sewer Department          | Florida DEP SED   | BB145             | Rehabilitation of Digesters  | Rehabilitation of digesters at treatment plant 2 clusters 1-4 at Central District treatment plant.  | Rehabilitation of digesters at treatment plant 2 clusters 1-4 at Central District treatment plant.  | Water Quality  | Completed      |                      |                           |
| Miami-Dade Water and Sewer Department          | Florida DEP SED   | BB146             | Construction of 80-ton Oxygen Production Units   | Construction of two 80-ton oxygen production units at Central District treatment plant.   | Construction of two 80-ton oxygen production units at Central District treatment plant.   | Water Quality  | Completed      |                      |                           |
| Miami-Dade Water and Sewer Department          | Florida DEP SED   | BB147             | Standby Pumps and Rehab Outfall Pump Station Wet Well  | Standby Pumps and Rehab Outfall Pump Station Wet Well for effluent disposal at North District   | Standby Pumps and Rehab Outfall Pump Station  | Water Quality  | Completed      |                      |                           |
| Miami-Dade Water and Sewer Department          | Florida DEP SED   | BB148             | Rehabilitation of South Dade 54 Inch Force Main  | Rehabilitation of 3.5 miles of the South Dade 54-inch force main (collection system).   | Rehabilitation of 3.5 miles of the South Dade 54-inch force main (collection system).   | Water Quality  | Completed      |                      |                           |
| Miami-Dade Water and Sewer Department          | Florida DEP SED   | BB149             | Rehabilitation of City of Miami 54 Inch Force Main   | Rehabilitation of a 54-inch force main in the city of Miami (collection system).  | Rehabilitation of a 54-inch force main in the city of Miami (collection system).  | Water Quality  | Completed      |                      |                           |
| Miami-Dade Water and Sewer Department          | Florida DEP SED   | BB150             | Replacement of Asbestos Cement Force Main  | Replacement of 30 miles of asbestos cement force main transmission system (collection system).  | Replacement of 30 miles of asbestos cement force main transmission system (collection system).  | Water Quality  | Completed      |                      |                           |
| Miami-Dade Water and Sewer Department          | Florida DEP SED   | BB151             | Replacement of Force Main Collection System  | Replacement of 231,731.01 linear feet (43.89 miles) of force mains (collection system).   | Replacement of 231,731.01 linear feet (43.89 miles) of force mains (collection system).   | Water Quality  | Completed      |                      |                           |
| Miami-Dade Water and Sewer Department          | FPL               | BB152             | Supply of Reclaimed Water to Turkey Point  | A cooperative project with FPL is underway to supply reclaimed water for industrial reuse to the Turkey Point power plant, indirectly reducing MDWASD ocean outfall discharges under the Ocean Outfall legislation. | A cooperative project with FPL is underway to supply reclaimed water for industrial reuse to the Turkey Point power plant, indirectly reducing MDWASD ocean outfall discharges under the Ocean Outfall legislation. | Water Quality  | Completed      |                      |                           |
| Miami-Dade Water and Sewer Department          | Florida DEP SED   | BB153             | Deep Injection Wells   | Deep injection wells are being built to be the primary disposal method at each plant, eliminating or greatly reducing nutrients, solids, and other constituents discharged via the outfalls.                        | Deep injection wells are being built to be the primary disposal method at each plant, eliminating or greatly reducing nutrients, solids, and other constituents discharged via the outfalls.                        | Water Quality  | Completed      |                      |                           |
| Miami-Dade Water and Sewer Department (MDWASD) | Florida DEP SED   | BB142             | Rehabilitation of Chlorine Contact Chamber at South District Treatment Plant   | Rehabilitation of Chlorine Contact Chamber at South District Treatment Plant  | Rehabilitation of Chlorine Contact Chamber at South District Treatment Plant  | Water Quality  | Completed      |                      |                           |
| Mote Marine Laboratory & Aquarium              | Florida DEP/FWC   | BB008             | Strategic Integration of Stony Coral Disease Resistance into Coral Reproduction and Restoration Practices to Recover FL's Coral Reef | Applied Stony coral tissue loss disease research to increase restoration innovation.  |   | Data Collection and Evaluation                           | Ongoing        | Apr-21               | Jun-23                    |
| North Bay Village, City of                     |                   | BB033             | Fertilizer Ordinance   | Adopted the Florida Friendly Fertilizer Ordinance   |   | Ordinance  | Ongoing        |                      |                           |
| North Bay Village, City of                     |                   | BB034             | Innovative Research Partnership  | Developed a partnership with Florida International University and the University of Miami to find innovative research to help improve the health of Biscayne Bay  |   | Data Collection and Evaluation                           | Ongoing        |                      |                           |
| North Bay Village, City of                     | FIU               | BB035             | Marine Park  | Set aside a marine park   |   | Recreation   | Ongoing        |                      |                           |
| North Bay Village, City of                     | Miami-Dade County | BB036             | Rapid Derelict Vessel Removal  | Working on rapid derelict vessel removal in partnership with the county   |   | Marine Debris  | Ongoing        |                      |                           |
| North Bay Village, City of                     | Florida DEP       | BB018             | North Bay Village Stormwater Pump Station  | Project consists of replacing the injection well and pump station and adding Contech CDS stormwater treatment units at each outfall.  |   | Stormwater   | Planned        |                      |                           |
| Palmetto Bay, City of                          |                   | BB032             | Fertilizer Ordinance   | Adopted DEP's model ordinance for fertilizer use for urban landscapes, alongside additional and more stringent standards related to the use of nitrogen and phosphorus-based fertilizers.                           |   | Ordinance  | Ongoing        |                      |                           |

# Attachment A - Project Tracker

| Lead Entity                             | Partners   | Unique Project ID | Project Name   | Project Description  | July 2022 Semi-Annual Update   | Project Type                   | Project Status | Estimated Start Date | Estimated Completion Date |
|---|--|-------------------|--|--|--|--------------------------------|----------------|----------------------|---------------------------|
| Pinecrest, City of                      | Miami-Dade County  | BB039             | Pinecrest Potable Water Project  | Will connect 700 homes previously reliant on well water to the county water and sewer system.  |  | Potable Water                  | Ongoing        |                      |                           |
| South Florida Water Management District |  | BB022             | Cutler Flow Way  | Contract 6: Cutler Wetlands Flow way- Intermediate design completed. Final design, contract award and construction expected in 2022, with completion in 2025.  |  | Hydrologic Restoration         | Ongoing        |                      |                           |
| South Florida Water Management District | Miami-Dade County; Florida DEP   | BB024             | Model Lands Restoration Project  | Miami-Dade County in cooperation with the SFWMD and DEP is implementing a concept for the construction, operation and monitoring of environmental pump stations to divert excess stormwater from the Florida City Canal and improve hydrology and reduce saltwater intrusion in the Model Lands.   |  | Hydrologic Restoration         | Ongoing        |                      |                           |
| South Florida Water Management District | Miami-Dade County  | BB025             | Biscayne Bay Economic Study Update   | The purpose of the Biscayne Bay Economic Study Update is to estimate the economic contribution of Biscayne Bay as it is used for recreation, shipping, cruises and commercial fishing. Economic contribution is the output, resident income, employment and tax revenue generated from these activities. The study will also update the recreational uses and intensity of Biscayne Bay. This update of the economic role of Biscayne Bay in Florida could be used to justify investments and programs to protect the bay and its contributions to economic activity and community well-being. |  | Data Collection and Evaluation | Ongoing        |                      |                           |
| South Florida Water Management District | Cutler Bay, City of  | BB026             | BBCW/C-111   | The Biscayne Bay Coastal Wetlands (BBCW) project, a part of the Comprehensive Everglades Restoration Plan (CERP), was authorized by Congress in 2014.  |  | Hydrologic Restoration         | Ongoing        |                      | Dec-25                    |
| South Florida Water Management District | Florida DEP  | BB019             | Biscayne Bay Water Quality Model Development and Application   | Objective is to develop and implement a physically-based hydrodynamic water quality model for Biscayne Bay. Model applications will provide quantitative assessments of potential projects and operations to reduce nutrient loading to Biscayne Bay.  |  | Data Collection and Evaluation | Planned        |                      |                           |
| South Florida Water Management District | Miami-Dade County  | BB023             | CERP-Biscayne Bay and Southeastern Everglades Ecosystem Restoration  | Biscayne Bay and Southeastern Everglades Ecosystem Restoration is a CERP study with multiple components to bring fresh water and improve timing of deliveries to Biscayne Bay, the Model Lands, Southern Glades and other areas, building on the work of the BBCW project.   |  | Hydrologic Restoration         | Planned        |                      |                           |
| South Miami                             |  | BB129             | Storm Drains   | Added grates on storm drains to prevent trash from reaching Biscayne Bay.  | Added grates on storm drains to prevent trash from reaching Biscayne Bay.  | Stormwater                     | Updated        |                      |                           |
| South Miami                             |  | BB130             | Septic-to-Sewer Plan   | Funded plan to get all residents on city water and currently working to find funding to implement the septic-to-sewer plan, which already has the engineering component completed.   | Funded plan to get all residents on city water and currently working to find funding to implement the septic-to-sewer plan, which already has the engineering component completed. | Funding                        | Updated        |                      |                           |
| South Miami                             |  | BB131             | Biscayne Bay Southern Everglades Ecosystem Restoration   | Passed resolution to protect Biscayne Bay Southern Everglades Ecosystem Restoration from any industrial development that conflicts with current restoration alternatives.  | Passed resolution to protect Biscayne Bay Southern Everglades Ecosystem Restoration from any industrial development that conflicts with current restoration alternatives.          | Ordinance                      | Updated        |                      |                           |
| The Florida Sea Base                    | Florida DEP  | BB010             | Coral Restoration and Youth Environmental Education  | Coral restoration project that is part of a STEM program in Florida Keys.  |  | Education                      | Ongoing        | May-21               | Jun-23                    |
| The Green Corridor Cities               | Cutler Bay, Palmetto Bay, Pinecrest, South Miami, Coral Gables, Miami and Miami Shores | BB132             | PACE Program   | Support of PACE Program funding for water and sewer infrastructure improvements.   | Support of PACE Program funding for water and sewer infrastructure improvements.   | Infrastructure                 | Updated        |                      |                           |
| University of Miami                     | Florida DEP  | BB009             | Enhancing Coral Restoration through propagation, research, and training across a network of six FL Institutions to improve reproductive success, genetic diversity, and resilience of restored corals. | Project will integrate and expand asexual and sexual propagation activities for Miami-Dade and Broward Counties.   |  | Data Collection and Evaluation | Ongoing        | Jul-21               | Jun-23                    |



# BISCAYNE BAY COMMISSION - FINANCIAL PLAN

## WATER RESOURCE FUNDING APPLICABLE TO BISCAYNE BAY

### FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

#### Division of Water Restoration Assistance

The Florida Department of Environmental Protection's (DEP) [Division of Water Restoration Assistance](#) provides loans and grants to local governments, utilities and other agencies for projects that improve the quality and quantity of the state's water resources and provide a significant benefit to the environment and local communities. These projects improve stormwater quality; reduce pollutants entering surface water and groundwater; conserve energy or water; protect springs; collect and treat wastewater; produce and distribute drinking water; provide alternative water supply; and restore potable water for homeowners in areas affected by declining source water quality.

For more information about any of the grant or loan programs below, visit [FloridaDEP.gov](http://FloridaDEP.gov) or contact Angela Knecht at [Angela.Knecht@FloridaDEP.gov](mailto:Angela.Knecht@FloridaDEP.gov) or **850-245-2934**.

#### State Revolving Fund Program

The division's largest program is Florida's [State Revolving Fund](#), funded through money received from federal grants and state contributions. These funds then "revolve" through the repayment of previous loans and interest earned. While these programs offer loans, grant-like funding is also available for qualified small, disadvantaged communities, which reduces the amount owed on loans by the percentage that the community qualifies. Projects are considered for funding each August, November, February and May depending on funding, and the initial paperwork to be considered at these meetings must be submitted 45 days in advance of those meetings (The details and paperwork are available at the links below).

- The [Clean Water State Revolving Fund](#) (CWSRF) is Florida's largest financial assistance program for water infrastructure, providing low-interest loans to local governments to plan, design, and build or upgrade wastewater, stormwater and nonpoint source pollution prevention projects. Certain agricultural best management practices may also qualify for funding. The loan terms include a 20-year amortization and low-interest rates.
- [Small Community Wastewater Facility Grants](#) are available for the construction of wastewater facilities in municipalities with 10,000 or fewer people and per capita income levels below Florida's average per capita income. These grants are incorporated into and must accompany a CWSRF loan.
- The [Drinking Water State Revolving Fund](#) (DWSRF) provides low-interest loans to local governments and certain private utilities to plan, design, build or upgrade drinking water systems. Discounted assistance for small communities may be available. Principal forgiveness may also be available for disadvantaged communities. The loan terms include a 20-year amortization and low interest rates.

#### Nonpoint Source Funds

The [Nonpoint Source Program](#) (NPS) provides funding for control of water pollution from nonpoint

sources and is managed by DEP's NPS Management Program.

The program administers federal and state grant funding for projects that reduce stormwater pollution from nonpoint sources, particularly to address impaired waterbodies and meet restoration goals related to total maximum daily loads (TMDLs) and restoration plans. These funds to construct traditional and green stormwater infrastructure projects to treat nutrient pollution in impaired waters are primarily granted to local governments (county and municipal governments; special districts; water management districts; other state agencies; public universities/colleges; and national estuary programs located in Florida). The federal [Clean Water Act section 319\(h\) grant](#) from the U.S. Environmental Protection Agency can also be used to implement demonstration of agricultural best management practices, abandon septic tanks and connect residents to sewer, and education campaigns targeting behavior change to reduce personal pollution to waterbodies.

NPS project proposals may be submitted anytime throughout the year. Department review and evaluation periods are expected to occur in September/October and March/April of each year or as needed. If the project is not funded in the first selection cycle (September/October), it will be considered in the following cycle (March/April) with no need to resubmit, unless there is a need to update the proposal. However, if a previously submitted project is not selected within the current state fiscal year, the proposal will need to be resubmitted for evaluation.

### **Wastewater Grant Program**

The [Wastewater Grant Program](#) (WWGP) provides grants to governmental entities for wastewater projects that reduce excess nutrient pollution within a basin management action plan (BMAP), an alternative restoration plan adopted by final order or a rural area of opportunity (RAO). The program requires at least a 50% match that may be waived by the department for RAOs.

Projects to construct, upgrade or expand wastewater facilities to provide advanced wastewater treatment and connect septic tanks to sewer systems are prioritized. Consideration is given to nutrient reductions; project readiness; cost effectiveness; overall environmental benefit; project location; local matching funds; and water savings and water quality improvement. Please refer to [section 403.0673, Florida Statutes](#), for the full description of the Wastewater Grant Program statute. Project proposals for each fiscal year are to be submitted via [ProtectingFloridaTogether.gov](#).

### **Innovative Technology Grant Program**

The [Innovative Technologies Grant Program](#) is available to local governmental entities for projects that evaluate and implement innovative technologies and short-term solutions to combat algal blooms and nutrient enrichment, restore and preserve Florida waterbodies, and implement certain water quality treatment technologies. It has received \$10 million each year for the past three years and \$15 million for Fiscal Year 2022-23.

Project proposals for each fiscal year can be submitted at [ProtectingFloridaTogether.gov](#).

### **Office Of Resilience and Coastal Protection**

The [Office of Resilience and Coastal Protection](#) (RCP) is committed to helping prepare Florida's communities and habitats for changes resulting from sea level rise by providing funding and technical

assistance to coastal communities and continuing to promote and ensure a coordinated approach to sea level rise planning among state, regional and local agencies.

- The [Resilient Florida Program](#) includes a selection of grants that are available to counties, municipalities, water management districts, flood control districts, regional resilience entities and other eligible entities. To effectively address the impacts of flooding and sea level rise that the state faces, eligible applicants may receive funding assistance for planning grants to analyze and plan for vulnerabilities as well as implementation grants for adaptation and mitigation. Please refer to [section 380.093, F.S.](#), for more information on the available grant programs, definitions and required parameters. Project proposals can be submitted July 1 – September 1 each year via [DEP's Grants Portal](#). To learn more, visit DEP's Resilient Florida Program online, call 850-245-7600 or email [Resilience@FloridaDEP.gov](mailto:Resilience@FloridaDEP.gov).
- [Water Quality Improvement Grants in Biscayne Bay](#): For the second year in a row, Governor DeSantis and the Florida Legislature funded a grant program in FY 2022-23 specifically targeting water quality improvements in Biscayne Bay. Eligible projects must be designed to improve water quality, and eligible project proposals must be submitted by a local government, academic institution, nonprofit organization or for-profit organization that receives state financial assistance. Funding cannot be provided by DEP directly to any federal agency, vendor or private, for-profit entity. Project proposals can be submitted through Aug. 15, 2022, at [ProtectingFloridaTogether.gov](#).
- The [RCP Project Funding Sources list](#) includes information about grant opportunities that are available for local governments, state agencies and other eligible entities to help plan, design, manage or construct projects such as vulnerability assessments, adaptation plans, beach and inlet management, public access needs, coral protection, and marina waste pump handling.

## FLORIDA DEPARTMENT OF ECONOMIC OPPORTUNITY

The [Florida Department of Economic Opportunity](#) (in collaboration with its partners assists the Governor in advancing Florida's economy by championing the state's economic development vision and by administering state and federal programs and initiatives to help visitors, residents, businesses and communities.

- The [Florida Small Cities Community Development Block Grant](#) (CDBG) Program is a competitive grant program that awards funds to units of local government in small urban and rural areas. Florida receives \$18 to \$26 million annually from HUD to award subgrants to eligible units of local government.

The program provides an excellent opportunity for communities to obtain funds for projects that they cannot otherwise afford. CDBG funds can also provide administrative support for local governments that may not have the staffing resources necessary to administer their projects.

Examples of CDBG funded projects include water and sewer improvements; rehabilitation of substandard housing; street and sidewalk improvements; economic development activities that create jobs for low- and moderate-income people; downtown revitalization, including facade improvements, streetscaping, and underground utilities; park facilities and community centers; and drainage/stormwater improvements.

- The [Rural Community Development Revolving Loan Program](#) (RCDRL) was created by the 1996 Florida Legislature to facilitate the use of existing federal, state and local financial resources by providing local governments with access to financial assistance to further promote the economic viability of rural communities. This program is intended to be highly flexible, and the loan amounts will vary depending on the need of applicants. It will provide term loans to local governments or to economic development organizations substantially underwritten by a unit of local government; within counties with populations of 75,000 or fewer or a contiguous county of 125,000 or fewer as stated in [section 288.065, F.S.](#) The long-term goals of the RCDRL include the creation of jobs for the residents of rural Florida and an increase in economic vitality and diversification for these areas. For more information, visit the [RCDRL website](#) or contact Tina Grow at 850-717-8533 or [Tina.Grow@DEO.MyFlorida.com](mailto:Tina.Grow@DEO.MyFlorida.com).
- The [Technical Assistance Planning Grants](#) Program provides funding for Community Planning Technical Assistance (CPTA) Grants for counties, municipalities and regional planning councils with the opportunity to create innovative plans and development strategies to promote a diverse economy, vibrant rural and suburban areas while meeting statutory requirements for planning and protecting environmentally sensitive areas. Understanding that many Florida communities have been impacted by hurricanes, CPTA Grants may also be used for disaster recovery, resiliency and economic development planning.

## ENTERPRISE FLORIDA

[Enterprise Florida](#) is a public-private partnership of business and government leaders with the goal of promoting Florida as a premier business destination and expanding the state's economy through private-sector job creation. Enterprise Florida works closely with a statewide network of economic development partners and is a resource for a variety of public and private projects and activities, including those in rural communities, to facilitate the creation, capital investment, strengthening and diversification of local economies by promoting tourism, trade and economic development. The various Enterprise Florida programs and financial incentives are intended, among other things, to provide additional financial assistance to enable communities to better access other infrastructure funding programs.

- Resources for Rural Communities: Enterprise Florida's Rural Expansion Toolkit includes grant opportunities for marketing and training, consulting services and site preparedness in Florida's rural communities, including development and enhancement of sites to make them build-ready and competitive for site selection projects. Grant funds may be available for, but are not limited to, the following types of activities: matching funds for federal grants; renovation of existing building or demolition of old buildings (county or city-owned); stormwater project for potential commercial sites; phase one environmental study; gas line extension; water and sewer construction or upgrade; access road construction (including engineering or architecture costs); or other approved infrastructure costs.

Grants within this program are eligible for reimbursement up to \$25,000 with a 24-month term beginning upon the execution of the grant contract. Learn more about the program.

Applications will be accepted from local or regional economic development or community partners located within a rural community – as identified in [288.0656\(e\), F.S.](#) – that can demonstrate a



pathway to site readiness. Visit [www.enterpriseflorida.com/rural/resources-rural-communities](http://www.enterpriseflorida.com/rural/resources-rural-communities) to learn more about the Rural Expansion Toolkit as well as other local, state and national economic development resources.

The [Environmental Finance Center Network](#) (EFCN) is a university-based organization creating innovative solutions to the difficult how-to-pay issues of environmental protection and improvement. The EFCN works with the public and private sectors to promote sustainable environmental solutions while bolstering efforts to manage costs.

[Funding Sources by State or Territory](#) (select Florida) lists water and wastewater funding sources in the state. For more information, visit [EFCNetwork.org/about-the-network/](http://EFCNetwork.org/about-the-network/) or [https://efcnetwork.org/wp-content/uploads/2020/05/FL-Water-Wastewater-Funds-2020\\_draft.pdf](https://efcnetwork.org/wp-content/uploads/2020/05/FL-Water-Wastewater-Funds-2020_draft.pdf).

## FLORIDA LEGISLATURE

The [Florida Legislature](#) may solicit applications directly for [Community Budget Issue Request](#) projects, including water projects, in anticipation of upcoming legislative sessions. This process is an opportunity to secure legislative sponsorship of project funding through the state budget. Interested parties should contact their local legislative delegation to determine whether there are opportunities available to fund projects. Information on contacting senators and representatives is available at [Leg.State.FL.US](http://Leg.State.FL.US).

## Florida Rural Water Association

The [Florida Rural Water Association](#) (FRWA) is a nonprofit, nonregulatory professional association that assists water and wastewater systems with every phase of operations, including drinking water, wastewater, groundwater protection/source water protection and engineering services.

Active members include public water and wastewater systems such as counties, municipalities, associations, districts, mobile home parks, schools and authorities. For more information, visit [FRWA.net](http://FRWA.net).

- The [FRWA Loan Program](#) assists communities in obtaining competitive interim financing for construction projects. To assist borrowers across the state with financing capital construction projects, FRWA, in conjunction with a partner, created an interim construction loan program to provide construction funding for communities which have received a permanent loan commitment from the U.S. Department of Agriculture-Rural Development (USDA-RD) or permanent loan commitment from DEP's State Revolving Fund (SRF) Program and needs construction funding. The program structure enables communities access to competitive fixed rate loan funds at a very low cost of borrowing. Loan proceeds are utilized for the construction period only and are paid off with USDA-RD/DEP's SRF funds when the project is complete or funded. For more information, visit: [www.frwa.net/funding](http://www.frwa.net/funding) or contact Gary Williams at 850-668-2746 or [Gary.Williams@frwa.net](mailto:Gary.Williams@frwa.net).

## U.S. DEPARTMENT OF AGRICULTURE

The [U.S. Department of Agriculture \(USDA\) Natural Resources Conservation Service \(NRCS\)](#) offers voluntary programs to eligible landowners and agricultural producers to provide financial and technical assistance to help manage natural resources in a sustainable manner. Through these programs, the agency approves contracts to provide financial assistance to help plan and implement conservation practices that address natural resource concerns or opportunities to help save energy, improve soil, water, plant, air, animal and related resources on agricultural lands and non-industrial private forest land. For more information, visit [www.NRCS.USDA.gov/wps/portal/nrcs/main/national/programs/financial](http://www.NRCS.USDA.gov/wps/portal/nrcs/main/national/programs/financial).

- EUSDA's [Regional Conservation Partnership Program \(RCPP\)](#) promotes coordination of NRCS conservation activities with partners that offer value-added contributions to expand the collective ability to address on-farm, watershed, and regional natural resource concerns. Through RCPP, NRCS co-invests with partners to implement projects that demonstrate innovative solutions to conservation challenges and provide measurable improvements and outcomes tied to the resource concerns they seek to address. Read the RCPP Fact Sheet. For more information, visit [www.NRCS.USDA.gov/wps/portal/nrcs/main/national/programs/financial/rcpp](http://www.NRCS.USDA.gov/wps/portal/nrcs/main/national/programs/financial/rcpp).
- USDA's [Rural Development \(USDA-RD\)](#) offer loans, grants and loan guarantees to help create jobs and support economic development and essential services such as housing; health care; first responder services and equipment; and water, electric and communications infrastructure. The program promotes economic development by supporting loans to businesses through banks, credit unions and community-managed lending pools, and it offers technical assistance and information to help agricultural producers and cooperatives to improve the effectiveness of their operations. For more information, visit [www.RD.USDA.gov](http://www.RD.USDA.gov).
- USDA's [Rural Utilities Service Water and Environmental Programs \(WEP\)](#) provide funding for the construction of water and waste facilities in rural communities and is proud to be the only federal program exclusively focused on rural water and waste infrastructure needs of rural communities with populations of 10,000 or less. WEP also provides funding to organizations that provide technical assistance and training to rural communities in relation to their water and waste activities. WEP is administered through national office staff in Washington, D.C., and a network of field staff in each state. For more information, visit [www.RD.USDA.gov/programs-services/all-programs/water-environmental-programs](http://www.RD.USDA.gov/programs-services/all-programs/water-environmental-programs).
- USDA's [Rural Development Rural Utilities Service \(RUS\)](#) provides much needed infrastructure or infrastructure improvements to rural communities. These include water and waste treatment, electric power and telecommunications services. All of these services help to expand economic opportunities and improve the quality of life for rural residents. For more information, visit [www.RD.USDA.gov/about-rd/agencies/rural-utilities-service](http://www.RD.USDA.gov/about-rd/agencies/rural-utilities-service).

## U.S. DEPARTMENT OF COMMERCE ECONOMIC DEVELOPMENT ADMINISTRATION

The [U.S. Department of Commerce Economic Development Administration \(EDA\)](#) provides economic development financial assistance to communities so they can encourage innovation and entrepreneurship in a way that works best for them. Through its network of regionally based



staff and portfolio of [flexible grant tools](#), EDA helps communities that are experiencing economic distress take control of their future and position themselves for economic prosperity and resiliency. For funding opportunity information, visit [www.EDA.gov/funding-opportunities](http://www.EDA.gov/funding-opportunities).

## **FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION RESOURCES**

### **Division of Habitat and Species Conservation: Aquatic Habitat Conservation and Restoration Program**

The Florida Fish and Wildlife Conservation Commission's Division of Habitat and Species Conservation receives recurring annual allocations of Land Acquisition Trust Fund and Marine Resources Trust Fund to complete aquatic habitat restoration and enhancement projects on public lands throughout the state. Completed projects include ephemeral and forested wetland, lake, river, estuarine, and marine habitat restoration, providing ecological services to people and supporting fish and wildlife resources. These projects restore hydrologic connectivity between habitat types and along landscape corridors; improve water quality; and create productive structural and nursery habitat for fish and wildlife benefiting regional and local communities. FWC works with numerous partner organizations to identify, plan and implement aquatic restoration projects through procurement of engineering, construction, research and monitoring contractors. This program also matches state funding to amplify project impacts by seeking grants from federal programs by the U.S. Fish and Wildlife Service, National Oceanic and Atmospheric Administration (NOAA), National Fish Habitat Partnerships, and National Fish and Wildlife Foundation. For more information visit <https://myfwc.com/wildlifehabitats/habitat/ahcr/>.

### **Division of Law Enforcement: Boating and Waterways Section – Derelict Vessel Program**

This program offers grants to counties and cities for reimbursement for their costs in the removal of derelict vessels. All derelict vessels (DV), after completing a law enforcement investigation, statutorily required due process procedures, and being entered into the Statewide DV Database, may be submitted for a removal reimbursement grant by a local government. This grant program will reimburse local governments at 100% of their pre-approved costs, until the annual state-wide allocations are exhausted. An executed grant must be in place **before** the vessels are removed and disposed of. Pre-award cost is not allowed for vessels already removed. Please see the following link for a copy of the DV Grant Program guidelines as well as the application form: <https://myfwc.com/boating/grants-programs/derelict-vessel/?redirect=dvgrant>.

### **Division of Law Enforcement: Boating and Waterways Section – Marine Debris Program**

The FWC does not have an established marine debris grant program but is in the process of establishing one. FWC is currently developing a contract with Miami-Dade DERM to provide funding for abandoned and derelict trap retrieval through fall 2023. FWC is awaiting final approval on a re-budget request submitted to NOAA for FWC to hire dedicated staff to be stationed at Biscayne National Park to assist NPS, Florida Sea Grant and Miami-Dade DERM with continued hurricane debris removal throughout Biscayne Bay on mangrove/spoil islands, reef and reef tract, and the shoreline.

FWC does track and promote additional marine debris removal funding opportunities:

- <https://marinedebris.noaa.gov/resources/funding-opportunities> Summer/fall funding opportunities released annually, with alternating focus areas.
- <https://www.epa.gov/trash-free-waters>
- <https://myfwc.com/conservation/special-initiatives/cwci/grants/> Multiple grant resources that could be used for marine debris and/or other coastal work.
- <https://helpingseaturtles.org/apply-for-a-grant/>

### **Division of Law Enforcement: Boating and Waterways Section – Boating Access and Improvement**

The Florida Boating Improvement Grant Program (FBIP) offers competitive grants to counties and cities for reimbursement of costs to enhance public boating access, and, contingent upon available funding, will reimburse the local government up to 100% of their pre-approved costs. An executed grant agreement must be in place before the project work begins. No match is required but it increases the score in the competitive selection process. Additionally, eligible projects with at least 25% match that are not selected for FBIP funding may be eligible for federal Sport Fish Restoration funding, if available. This program will pay for a wide variety of facilities and amenities including waterway markers (signs/buoys, channel markers, navigation aids); ramps for motorized boats; piers and docks; surveys; dredging; parking; restrooms; design/engineering/permitting; informational kiosks; and educational items (e.g., brochures, guides and educational programs). Please see the link below for a copy of the FBIP Guidelines as well as the Application form:

<https://myfwc.com/boating/grants-programs/fbip/>

The Boating Infrastructure Grant Program (BIGP) offers nationally competitive federal grants to public and private applicants for reimbursement of a portion of their costs to enhance public transient recreational vessel boating access. Transient recreational vessels are defined as those 26' in length or greater and staying for 15 days or less. This grant program (contingent upon selection by FWC and award by U.S. Fish and Wildlife Service) will reimburse the applicant up to 75% of their pre-approved costs. A minimum 25% non-federal match is required, and a higher match percentage increases the competitiveness of the application. This program will pay for a wide variety of facilities and amenities including directional waterway markers, slips, docks, breakwaters, parking, restrooms and showers, dredging as part of a project (not maintenance), mooring systems and dockside utilities. Please see the link below for a copy of the BIGP Guidelines as well as the Application form:

<https://myfwc.com/boating/grants-programs/bigp/>

### **FLORIDA INLAND NAVIGATION DISTRICT RESOURCES**

#### **Waterway Assistance Program**

The Waterway Assistance Program is a grant program established by the Florida Legislature and the Florida Inland Navigation District for the purpose of financially cooperating with local governments to increase public access associated with the Atlantic Intracoastal Waterway and associated waterways within the district. The program is authorized by Section 374.976, F.S., and is administered under the

provisions of Chapter 66B-2, Florida Administrative Code. Eligible local governmental agencies include municipalities, counties, port authorities and special taxing districts within the 12 counties of the district.

Grant applications are posted to the district's website in January. Applications are due at the district office toward the end of March. Please see the application package for deadline dates. Funding is awarded in October.

Applications are initially reviewed by district staff for compliance with district rules. If the application is in compliance, applicants present their application to the district's board of commissioners. The board then evaluates the application utilizing a rating form. Projects scoring the minimum number points become eligible for funding which is subject to statutory and budget limitations. For those projects which are approved for funding by the district board, funds become available on October 1.

The limitation on funding has been established by the Legislature to be equal to the tax revenue that the district receives from the county in which the applicant is located. There may be several applicants from within a county competing for these funds.

Waterway related projects must be located on natural, navigable waterways within the district. Eligible waterway related projects include navigation channel dredging; channel markers; navigation signs or buoys; boat ramps; docking facilities; fishing and viewing piers; waterfront boardwalks; inlet management; environmental education; law enforcement equipment; boating safety programs; beach renourishment; dredge material management; environmental mitigation; and shoreline stabilization.

The district is authorized to provide up to 75% for public navigation projects, while all other project categories are eligible for up to 50% funding assistance. The district annually allocates approximately \$10 to \$12 million for the program. Cash and other grant funds may be utilized as the local match.

[http://cms5.revize.com/revize/floridainland/grants\\_and\\_assistance\\_programs/index.php](http://cms5.revize.com/revize/floridainland/grants_and_assistance_programs/index.php)

### **Cooperative Assistance Program**

The Cooperative Assistance Program is a grant program established by the Florida Legislature and the district for the purpose of financially cooperating with federal, state and regional governments to alleviate problems associated with the Atlantic Intracoastal Waterway and associated waterways within the district. The program is authorized by Section 374.976, F.S., and is administered under the provisions of Chapter 66B-1, F.A.C.

Eligible federal, state and regional governmental agencies seeking to develop waterway improvement projects within the 12 counties of the district (Miami-Dade to Nassau counties) can apply for funding assistance. Grant application package will be available on the district's website in January And applications are due at toward the end of March. Please see application package for specific deadline dates. Funding is awarded in October.

Applications are initially reviewed by district staff for compliance with district rules. If the application is in compliance, the applicant presents their application to the district's board of commissioners. The board then evaluates the application for funding that is subject to statutory and budget limitations. For those projects which are approved for funding by the district board, assistance funds become available on Oct. 1.

Waterway related projects must be located on natural, navigable waterways within the district. Eligible waterway related projects include the following:

1. Public navigation channel dredging.
2. Public navigation aids and markers.
3. Inlet management projects that are a benefit to public navigation in the district.
4. Public shoreline stabilization directly benefiting the district's waterway channels (ICW or OWW).
5. Acquisition and development of publicly owned spoil disposal sites and public commercial/industrial waterway access
6. Waterway signs and buoys for safety, regulation or information.
7. Acquisition, dredging, shoreline stabilization and development of public boat ramps and launching facilities.
8. Acquisition, dredging, shoreline stabilization and development of public boat docking and mooring facilities.
9. Derelict vessel removal.
10. Waterway related environmental education programs and facilities.
11. Public fishing and viewing piers.
12. Public waterfront parks and boardwalks and associated improvements.
13. Maritime management planning.
14. Waterway boating safety programs and equipment.
15. Renourishment on beaches adversely impacted by navigation inlets, navigation structures, navigation dredging or a navigation project.
16. Environmental restoration, enhancement or mitigation projects.
17. Other waterway related projects.

There is no limitation on the amount of funding that can be requested. The district is authorized to provide up to 75% for certain types of public navigation dredging projects while all other project categories are eligible for up to 50% funding assistance. The district annually allocates approximately \$1 million to \$4 million for the program. Cash and other grant funds may be utilized as the local match.

[http://cms5.revize.com/revize/floridainland/grants\\_and\\_assistance\\_programs/index.php](http://cms5.revize.com/revize/floridainland/grants_and_assistance_programs/index.php)

## **MIAMI-DADE COUNTY RESOURCES**

### **Stormwater Utility Fees**

The stormwater utility was established in 1991 to properly manage the environmental impact of stormwater pollution and to provide adequate flood protection.

The utility was created to help solve the problem of polluted stormwater and to improve the drainage capability of areas that are susceptible to flooding. Impervious areas create barriers to rainwater, limiting the ability of water to soak into the ground and recharge the aquifer. Special structures need to be built to drain these areas.

Fees collected by the stormwater utility go toward the planning, construction, operation and maintenance of stormwater management systems – such as canal and drainage improvement projects and secondary drainage systems - in unincorporated portions of the county and within certain municipalities.

They also go toward reducing pollution caused by silt, oil, gasoline, fertilizers, pesticides and litter



carried by the stormwater to the drainage systems and canals that have been developed to prevent flooding during heavy rainfall. Stormwater drains not only have to remove water from the streets as quickly as possible, but they also must deal with all of the contaminants that get picked up along the way. The county utilizes stormwater utility revenue to issue revenue bonds to finance capital improvements to stormwater systems (secondary canals, local drainage infrastructure, etc.).

### **Water and Sewer Utility Fees**

Customer billing by the Miami-Dade Water and Sewer Department (WASD) represents the cost of operating and maintaining existing assets (water and wastewater treatment facilities, pipelines, pump stations, etc.), as well as fund debt service for capital improvements. Capital improvements by the Miami-Dade Water and Sewer Department are funded primarily through revenue bonds issued against water and sewer utility fee revenue. Proceeds from these bonds are generally used to fund projects intended to improve the existing system that will benefit all or a large number of customers, both retail and wholesale.

### **General Obligation Bonds**

General obligation bonds are issued by the county and are payable from ad valorem taxes on all taxable real and tangible personal property within the county (excluding exempt property as required by Florida law). The general obligation bonds are legally backed by the full faith and credit of the county, which has committed taxes over the next 40 years to repay the bonds. The issuance of general obligation bonds requires a voter referendum. Miami-Dade County voters on Nov. 2, 2004, approved the \$2.9 billion Building Better Communities Bond Program, which allowed the county to issue long-term bonds to fund more than 300 neighborhood and regional capital projects. Among these have been water, sewer and stormwater system improvements. Assignment of general obligation bond funds for this purpose must align with a county referendum and requires approval by the board of county commissioners.

### **Utility Service Fee**

The utility service fee is a user fee that is assessed upon water and sewer bills throughout Miami-Dade County to fund regulatory activities necessary to protect drinking water supplies. The fee, which is assessed as 6% of the total bill, supports ground and surface water monitoring, monitoring of landfills and other solid waste facilities, and other regulatory compliance functions necessary for source protection.

### **Biscayne Bay Environmental Enhancement Trust Fund**

An ordinance (180-9) was adopted on Feb. 19, 1980, by the Dade County Commission creating the Biscayne Bay Environmental Enhancement Trust Fund. This fund consists of money from enforcement and damage actions, mitigation assessments, donations, appropriations, grants and allocations.

Funds are used for the express purpose of financing environmental enhancement of Biscayne Bay and its foreshore, with limited environmental enhancement activities in the coastal waters of the county beyond Biscayne Bay such as installation, maintenance or management of artificial reefs and mooring buoys. As per section one of the ordinance, the prioritized list of enhancement activities, excluding studies, described in this overview qualify for funding from this source.

- (i) Funds shall be disbursed for the environmental enhancement of Biscayne Bay or its foreshore or coastal waters of the county beyond Biscayne Bay strictly in accordance with terms and

conditions of the grant, allocation, appropriation or donation and shall be earmarked accordingly.

- (ii) Any excess monies derived from such grant, allocation, appropriation or donation shall be disbursed or allocated in accordance with the terms and conditions, if any, of such grant, allocation, appropriation or donation. If no such terms or conditions attach to such excess, then such excess, if any, shall be disbursed for the environmental enhancement of Biscayne Bay or its foreshore or coastal waters of the county beyond Biscayne Bay as authorized and approved by resolution of the board of county commissioners.

The Biscayne Bay Environmental Enhancement Trust Fund is kept and maintained in trust by the board of county commissioners for the purposes set forth in this section in a separate and segregated fund of the county that is not commingled with other county funds until disbursed for an authorized purpose.



## LEAGUE OF CITIES/MUNICIPALITY RESOURCES

### Stormwater Utility Fees

The league is composed of 34 member cities, 31 of which border Biscayne Bay or a canal that drains to the bay. The villages, towns and cities have a variety of financial resources at their disposal, including general fund, stormwater utility fund, transportation plan fund, and homeowner assessments. Additionally, many of members take advantage of the grant programs listing within this document to fund their priority projects affecting the health of Biscayne Bay.

Additional resources they listed that are not included in the document are the Florida Department of Emergency Management, the Florida Department of Transportation and the Florida Beverage Association.

## OTHER RESOURCES

### Catalog of Federal Domestic Assistance

The [Catalog of Federal Domestic Assistance](#) (CFDA) provides a full listing of federal programs that are available to organizations, government agencies (state, local, tribal), U.S. territories and individuals who are authorized to do business with the government. A CFDA program can be a project, service or activity. For more information, visit [Recovery.fema.gov/glossary/CFDA](https://www.fema.gov/glossary/CFDA).

### Congress – State and Tribal Assistance Grant Program

The [Congress – State and Tribal Assistance Grant Program](#) provides the opportunity to secure congressional sponsorship of project funding, including water project funding, through the annual federal budget process. The program's stated purpose is to strengthen state, local government and tribal abilities to address environmental and public health threats while furthering environmental compliance. To contact congressional members for assistance in pursuing funding, visit [www.GovTrack.us/congress/members](http://www.GovTrack.us/congress/members).

### Division of Emergency Management Recovery Bureau

Florida's [Division of Emergency Management Recovery Bureau](#) works to maximize disaster assistance to eligible public entities, individuals and families through various state and federal disaster assistance programs. These programs help to rebuild lives and communities that have been impacted by a major disaster and begin the recovery process. After being requested by the Governor, the U.S. President may sign a disaster declaration that includes both individual and public assistance programs as authorized by the [Robert T. Stafford Disaster Relief and Emergency Assistance Act](#). For more information, visit [www.FloridaDisaster.org/dem/recovery](http://www.FloridaDisaster.org/dem/recovery) or call 850-815-4000. **Environmental Protection Agency**

The [Environmental Protection Agency](#) (EPA) awards more than \$4 billion annually in funding for grants and other assistance agreements. From small nonprofit organizations to state governments, EPA works to help many visionary organizations achieve their environmental goals. With countless success stories over the years, EPA grants remain a chief tool to protect human health and the environment. For more information, visit [www.EPA.gov/grants](http://www.EPA.gov/grants).

## Florida Resource Directory

The [Florida Resource Directory](#) is a one-stop source for learning about the latest state and many federal programs and resources to help local communities. The directory will help rural and distressed urban communities as well as community-based organizations find and access sources of assistance for any type of infrastructure project, housing, health services, training, small business and tourism development assistance, or help building a community park. For more information, visit [FMW.state.fl.us:8890/apps/rediHtml/](http://FMW.state.fl.us:8890/apps/rediHtml/) or call 850-717-8980.

[Grants.gov](#)

[Grants.gov](#) provides a centralized location for grant seekers to find and apply for federal funding opportunities, housing information on over 1,000 grant programs and vetting grant applications for [federal grant-making agencies](#). For more information, visit [www.Grants.gov](http://www.Grants.gov).