| Ref # | Indicator | Metric(s) Monitored | Location (RECOVER Regions and/or Other Areas) | Description of Monitoring | Monitoring Objectives |
|-------|--------------|-------------------------------------|---|---|--|
| 47 | Exotic Fauna | Species Richness | All RECOVER Modules | Opportunistic observations of nonnative wildlife. | The FWC (via FWC staff observations and the public observations via the Exotic Species Hotline) on collaboration with the University of Georgia's EddMAPs (IveGot1 application) record opportunistic observations of nonnative wildlife throughout the state of Florida. Both entities share data. |
| 398 | Exotic Flora | | NE and SFWMD North of Lake Okeechobee, Kissimmee and Caloosahatchee basins. | Surface water chemistry and biological monitoring for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code). These data are used to assess the waterbody health and for those waterbodies that are verified as impaired, provides data used to develop Total Maximum Daily Loads (TMDLs) and evaluate implementation of Basin Management Action Plans (BMAPs). | Meet data sufficiency for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code) and EPA CWA Section 303(d) surface water assessments. Meets data sufficiency for Total Maximum Daily Loads (TMDLs) development in impaired waterbody segments. |
| 704 | Fish | Other - Movement, health metrics | NE | Fish in the Northern Estuaries Monitoring | Link freshwater inflow to fish distribution, abundance and health in the St. Lucie Estuary. |
| 74 | Fish | Species Abundance | NE | Large-bodied fish communities are monitored using a 183-m haul seine | The measurable objective of this project is to monitor large-bodied fishes (e.g., common snook, sheepshead, mojarras, pinfish) in the St. Lucie River Estuary and southern Indian River Lagoon. |
| 75 | Fish | Species Abundance | NE | Small-bodied fish communities are monitoring using a 21.3-m seine | The measurable objective of this project is to monitor juvenile common snook abundance in the St. Lucie and Loxahatchee rivers. All species collected in seines are worked up and available for analyses associated with species composition, diversity, and richness. |

| 76 | Fish | Species Abundance | NE | Smalltooth sawfish abundance, movement, and | The measurable objective of this project is to |
|-----|-------------------|----------------------------------|------------------------------|--|--|
| | | | | distribution are monitored in the | monitor changes in smalltooth sawfish |
| | | | | Caloosahatchee and St. Lucie estuaries | distribution and movements (determined from |
| | | | | | acoustic tagging) and abundance in the |
| | | | | | Caloosahatchee River Estuary, St. Lucie River |
| | | | | | Estuary, and southern Indian River Lagoon. |
| 56 | Fish | Body Condition | NE | Sport fish (e.g., sheepshead and common | The measurable objective of this project is to |
| | | | | snook) movements and health are monitored in | monitor changes in sport fish distribution |
| | | | | the St. Lucie River Estuary | (determined from acoustic tagging) and health |
| | | | | | (e.g., body condition, physiological biomarkers) |
| | | | | | resulting from restoration. |
| | | | | | |
| 256 | Fish - Smalltooth | Species Abundance - Survey | NE (Surveys conducted in the | Long-term smalltooth sawfish monitoring | Tracking population abundance of an |
| | Sawfish | includes point measurements | Caloosahatchee River Estuary | surveys in the northern estuaries | endangered species in response to management |
| | | of water quality and habitat | and St. Lucie River Estuary) | | decisions aimed at restoring the population. |
| | | parameters at each sample | | | Ontogenetic habitat shifts |
| | | site. All individual sawfish are | | | |
| | | assessed for health condition. | | | |
| | | | | | |
| 705 | Macroinvertebra | Other - Density; Size | NE | CRE MFL Clam Monitoring | Link freshwater inflow to clam distribution, |
| | tes | | | | abundance and size class distribution in the |
| | | | | | Caloosahatchee River Estuary. |

| 83 | Other - Algal | Other | | The Florida Fish and Wildlife Conservation | |
|-----|-------------------|------------------------|---------------------------|--|---|
| | Blooms | | | Commission's Fish and Wildlife Research | |
| | | | | Institute (FWRI) harmful algal bloom (HAB) | |
| | | | | database documents Karenia brevis blooms, | |
| | | | | also called red tides, from 1953 to the present | |
| | | | | one of the longest records of red tide data. | |
| | | | | The database contains more than 200,000 | |
| | | | | records from samples provided by more than | |
| | | | | 190 state and county agencies, private research | |
| | | | | institutions, universities, and FWC staff. Data | |
| | | | | include location coordinates, cell counts of | |
| | | | | Karenia brevis and other HAB species, and a | |
| | | | | variety of water quality measurements such as | |
| | | | | temperature, salinity and dissolved oxygen. The | |
| | | | | database is updated daily and data are | |
| | | | | routinely provided to FWC scientists, other | |
| | | | | researchers, resource managers, and the | |
| | | | | public. | |
| | | | | | |
| 404 | Other - Depth | Depth | All RECOVER Modules and | Surface water chemistry and biological | Meet data sufficiency for Impaired Waters Rule |
| | | | SFWMD North of Lake | monitoring for Impaired Waters Rule (Chapter | (Chapter 62-303, Florida Administrative Code) |
| | | | Okeechobee, Kissimmee and | 62-303, Florida Administrative Code). These | and EPA CWA Section 303(d) surface water |
| | | | Caloosahatchee basins. | data are used to assess the waterbody health | assessments. |
| | | | | and for those waterbodies that are verified as | Meets data sufficiency for Total Maximum Daily |
| | | | | impaired, provides data used to develop Total | Loads (TMDLs) development in impaired |
| | | | | Maximum Daily Loads (TMDLs) and evaluate | waterbody segments. |
| | | | | Implementation of Basin Management Action | |
| 400 | Other Disselved | Disastrad Organization | | Plans (BIVIAPS). | March data aufficiance for locacined Michael Dula |
| 409 | Other - Dissolved | Dissolved Oxygen | | Surface water chemistry and biological | (Chapter C2 202) Elevide Administrative Code) |
| | Oxygen | | SEWIND NOTITI OF Lake | (Chapter - Code) Those | and EDA CWA Section 202(d) surface water |
| | | | Calescabatches basins | data are used to access the waterbody health | and EPA CWA Section 505(d) surface water |
| | | | | and for those waterbodies that are verified as | dssessifients. |
| | | | | impaired provides data used to develop Total | Loads (TMDLs) development in impaired |
| | | | | Maximum Daily Loads (TMDLs) and evaluate | waterbody segments |
| | | | | implementation of Basin Management Action | water body segments. |
| | | | | Diane (RMADe) | |
| | | | | ורומווש (טועותרש). | |

| 262 | Other - eDNA Biodiversity | Species Diversity - chlorophyll a; nutrients; ocean acidification; eDNA; temperature; salinity | NE, SCS, SWS, Florida Keys | Monitoring of water quality and other chemistry and biodiversity metrics in the Florida Keys and southwest Florida shelf | To determine how Everglades restoration affects water quality in the nearshore and downstream FKNMS. Also, systematically measure oceanographic conditions and water quality in areas where red tide frequently blooms |
|-----|--|---|---|---|---|
| 687 | Other - elevation in treatment areas | Other - elevation | NE - TCSTA Cell 1; LRSTA Phase I; NSSTA | topographical surveys in NSTAs | verify elevation changes over time in STAs online for over 5 years |
| 311 | Other - Infauna | Other - Benthic infauna abundance and richness, sediment composition, water quality (surface and bottom water DO, pH, water temperature, turbidity), and salinity | NE | Benthic infaunal sampling is performed quarterly at 15 fixed sites in the ST. Lucie River, St. Lucie Estuary, and Indian River Lagoon to understand changes in salinity regimes, sediment composition, and water quality. | Evaluate the present health status of the St. Lucie Estuary and southern Indian River Lagoon as baseline data record and follow long-term changes in these ecosystems attribute causative factors to observed changes (e.g. freshwater runoff/release, natural successions and oscillations, climate change) pinpoint and evaluate anthropogenic disturbances provide reference data for possible intensive, short-term monitoring programs and other research efforts in the IRL-SLE; and evaluate the efficacy of using the M-AMNI health index and calculate values, where possible, to evaluate temporal changes at each site. |
| 416 | Other - Nutrients | Nutrients | All RECOVER Modules and SFWMD North of Lake Okeechobee, Kissimmee and Caloosahatchee basins. | Surface water chemistry and biological monitoring for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code). These data are used to assess the waterbody health and for those waterbodies that are verified as impaired, provides data used to develop Total Maximum Daily Loads (TMDLs) and evaluate implementation of Basin Management Action Plans (BMAPs). | Meet data sufficiency for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code) and EPA CWA Section 303(d) surface water assessments. Meets data sufficiency for Total Maximum Daily Loads (TMDLs) development in impaired waterbody segments. |

| 423 | Other - Percent Cover | Percent Cover | All RECOVER Modules and SFWMD North of Lake Okeechobee, Kissimmee and Caloosahatchee basins. | Surface water chemistry and biological monitoring for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code). These data are used to assess the waterbody health and for those waterbodies that are verified as impaired, provides data used to develop Total Maximum Daily Loads (TMDLs) and evaluate implementation of Basin Management Action | Meet data sufficiency for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code) and EPA CWA Section 303(d) surface water assessments. Meets data sufficiency for Total Maximum Daily Loads (TMDLs) development in impaired waterbody segments. |
|-----|--------------------------|--------------------------|---|--|---|
| 429 | Other - Phosphorus | Phosphorus | All RECOVER Modules and SFWMD North of Lake Okeechobee, Kissimmee and Caloosahatchee basins. | Plans (BMAPs). Surface water chemistry and biological monitoring for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code). These data are used to assess the waterbody health and for those waterbodies that are verified as impaired, provides data used to develop Total Maximum Daily Loads (TMDLs) and evaluate implementation of Basin Management Action Plans (BMAPs). | Meet data sufficiency for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code) and EPA CWA Section 303(d) surface water assessments. Meets data sufficiency for Total Maximum Daily Loads (TMDLs) development in impaired waterbody segments. |
| 183 | Other - porewater | Other - hydrogen sulfide | NE | St. Lucie Estuary Seagrass Restoration Project, analyzing water quality, pore water and seed bank | Objective it to determine the specific preconditions that enable successful seagrass restoration within the specific area of the St. Lucie Estuary. The pilot project will conduct in situ data collection from 4 sites representing 2- 40 acres. |
| 236 | Other - Sea turtles | Nest Success | NE | Since 1989, the Index Nesting Beach Survey (INBS) has been carried out on a subset of SNBS beaches with the purpose of measuring trends in the number of nests. The index survey uses standardized data-collection criteria including consistent effort by location, fixed dates, and specialized annual training of beach surveyors. As of 2016, 36 beaches participate to the INBS program, representing 275 miles of coastline. | Managers use the results to evaluate and minimize the effects of human activities (e.g., coastal construction, beach renourishment, and recreation) on turtles and their nests and identify important areas for enhanced protection or land acquisition. |

| 237 | Other - Sea turtles | Nest Success | NE | The Statewide Nesting Beach Survey (SNBS) program was initiated in 1979 under a cooperative agreement between the Florida Fish and Wildlife Conservation Commission (FWC) and the U.S. Fish and Wildlife Service. Its purpose is to document the total distribution, seasonality and abundance of sea turtle nesting in Florida. Approximately 215 beaches are surveyed annually, representing about 825 miles. | Managers use the results to evaluate and minimize the effects of human activities (e.g., coastal construction, beach renourishment, and recreation) on turtles and their nests and identify important areas for enhanced protection or land acquisition. |
|-----|------------------------------|--|---|--|---|
| 685 | Other - sediment | Other - pH; loss on ignition (LOI, ash); bulk density; 1N HCl- extractable metals (Fe, Al, Ca and Mg); 1N total inorganic P;, water extractable P; total phosphorus (TP, ignition method); 1N KCL extractable nitrate/nitrite N (NOx); 1N extractable ammonia/ ammonium N (TAN) ; total nitrogen | NE - LRSTA Phase II, TMC | Baseline soil sampling in NSTAs | Obtain baseline nutrient and other data to compare changes in the STAs over time of operation and allow comparison of soils and WQ |
| 184 | Other - sediment | Other - seed bank | NE | St. Lucie Estuary Seagrass Restoration Project, analyzing water quality, pore water and seed bank | Objective it to determine the specific preconditions that enable successful seagrass restoration within the specific area of the St. Lucie Estuary. The pilot project will conduct in situ data collection from 4 sites representing 2- 40 acres. |
| 436 | Other - Species Abundance | Species Abundance | All RECOVER Modules and SFWMD North of Lake Okeechobee, Kissimmee and Caloosahatchee basins. | Surface water chemistry and biological monitoring for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code). These data are used to assess the waterbody health and for those waterbodies that are verified as impaired, provides data used to develop Total Maximum Daily Loads (TMDLs) and evaluate implementation of Basin Management Action Plans (BMAPs). | Meet data sufficiency for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code) and EPA CWA Section 303(d) surface water assessments. Meets data sufficiency for Total Maximum Daily Loads (TMDLs) development in impaired waterbody segments. |

| 443 | Other - Species | Species Diversity | All RECOVER Modules and | Surface water chemistry and biological | Meet data sufficiency for Impaired Waters Rule |
|-----|-------------------------|---------------------------|----------------------------|--|--|
| | Diversity | | SFWMD North of Lake | monitoring for Impaired Waters Rule (Chapter | (Chapter 62-303, Florida Administrative Code) |
| | | | Okeechobee, Kissimmee and | 62-303, Florida Administrative Code). These | and EPA CWA Section 303(d) surface water |
| | | | Caloosahatchee basins. | data are used to assess the waterbody health | assessments. |
| | | | | and for those waterbodies that are verified as | Meets data sufficiency for Total Maximum Daily |
| | | | | impaired, provides data used to develop Total | Loads (TMDLs) development in impaired |
| | | | | Maximum Daily Loads (TMDLs) and evaluate | waterbody segments. |
| | | | | implementation of Basin Management Action | |
| | | | | Plans (BMAPs). | |
| 242 | Other - Surface | Other - Surface Elevation | NE - J.N. Ding Darling NWR | Monitor Surface Elevation Change with rSETs to | Monitor changes in mangrove wetland elevation |
| | Elevation Change | Change, Tree Density, DBH | | evaluate impacts from rising sea levels in | related to rising sea levels |
| | | | | mangrove wetlands. | |
| 449 | Other - | Temperature | All RECOVER Modules and | Surface water chemistry and biological | Meet data sufficiency for Impaired Waters Rule |
| | Temperature | | SFWMD North of Lake | monitoring for Impaired Waters Rule (Chapter | (Chapter 62-303, Florida Administrative Code) |
| | | | Okeechobee, Kissimmee and | 62-303, Florida Administrative Code). These | and EPA CWA Section 303(d) surface water |
| | | | Caloosahatchee basins. | data are used to assess the waterbody health | assessments. |
| | | | | and for those waterbodies that are verified as | Meets data sufficiency for Total Maximum Daily |
| | | | | impaired, provides data used to develop Total | Loads (TMDLs) development in impaired |
| | | | | Maximum Daily Loads (TMDLs) and evaluate | waterbody segments. |
| | | | | implementation of Basin Management Action | |
| | | | | Plans (BMAPs). | |
| 694 | Other - | Species Abundance | NE | Zooplankton abundance and community | Link freshwater inflow to zooplankton |
| | zooplankton | | | structure in the Caloosahatchee River Estuary | community composition and abundance within |
| | | | | | the Caloosahatchee River Estuary. Zooplankton |
| | | | | | are an important food source for fish. |
| | | | | | |
| 695 | Other - | Species Diversity | NE | Zooplankton abundance and community | Link freshwater inflow to zooplankton |
| | zooplankton | | | structure in the Caloosahatchee River Estuary | community composition and abundance within |
| | | | | | the Caloosahatchee River Estuary. Zooplankton |
| | | | | | are an important food source for fish. |
| | | | | | |
| 696 | Other - | Species Richness | NE | Zooplankton abundance and community | Link freshwater inflow to zooplankton |
| | zooplankton | | | structure in the Caloosahatchee River Estuary | community composition and abundance within |
| | | | | | the Caloosahatchee River Estuary. Zooplankton |
| | | | | | are an important food source for fish. |
| | | | | | |

| 691 | Other - zooplankton | Species Abundance | NE | Zooplankton abundance and community structure in the St. Lucie Estuary | Link freshwater inflow to zooplankton community composition and abundance within |
|-----|------------------------|--|---|---|---|
| | | | | | the Caloosahatchee River Estuary. Zooplankton are an important food source for fish. |
| 692 | Other - zooplankton | Species Diversity | NE | Zooplankton abundance and community structure in the St. Lucie Estuary | Link freshwater inflow to zooplankton community composition and abundance within the Caloosahatchee River Estuary. Zooplankton are an important food source for fish. |
| 693 | Other - zooplankton | Species Richness | NE | Zooplankton abundance and community structure in the St. Lucie Estuary | Link freshwater inflow to zooplankton community composition and abundance within the Caloosahatchee River Estuary. Zooplankton are an important food source for fish. |
| 159 | Oysters | Species Abundance - Growth, reproduction, settlement | NE | Oyster community is monitored at fixed sample locations monthly | The measurable objective of this project is to monitor changes in oyster abundance and health in the Caloosahatchee River Estuary, St. Lucie River Estuary, Loxahatchee River and Lake Worth Lagoon. |
| 702 | Oysters | Other - Density; Size; Recruitment; Disease | NE | Oyster Monitoring in the Northern Estuaries | Link freshwater inflow to oyster distribution, abundance and health within the St. Lucie, Loxahatchee, and Caloosahatchee River estuaries. |
| 270 | Phytoplankton | Density - chlorophyll a; nutrients; ocean acidification; eDNA; temperature; salinity | NE, SCS, SWS, Florida Keys | Monitoring of water quality and other chemistry and biodiversity metrics in the Florida Keys and southwest Florida shelf | To determine how Everglades restoration affects water quality in the nearshore and downstream FKNMS. Also, systematically measure oceanographic conditions and water quality in areas where red tide frequently blooms |
| 456 | Phytoplankton | Other | All RECOVER Modules and SFWMD North of Lake Okeechobee, Kissimmee and Caloosahatchee basins. | Surface water chemistry and biological monitoring for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code). These data are used to assess the waterbody health and for those waterbodies that are verified as impaired, provides data used to develop Total Maximum Daily Loads (TMDLs) and evaluate implementation of Basin Management Action Plans (BMAPs). | Meet data sufficiency for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code) and EPA CWA Section 303(d) surface water assessments. Meets data sufficiency for Total Maximum Daily Loads (TMDLs) development in impaired waterbody segments. |

| 688 | Phytoplankton | Other - concentrations/link to | NE | Water quality monitoring of the northern | Understand how freshwater inflow impacts |
|-----|---------------|--------------------------------|---------------------------|---|--|
| | | satellite data | | estuaries to link freshwater inflow impacts to | estuarine structure and function linking nutrients |
| | | | | changes in water quality including algal blooms | to algal blooms and estuarine productivity |
| 699 | Salinity | Other - concentration | NE | Loxahatchee Groundwater and surface water | Monitor groundwater and surface water depth |
| | | | | monitoring | and salinity to detect impact of salt water |
| | | | | | intrusion into freshwater swamps |
| 462 | Salinity | Other | All RECOVER Modules and | Surface water chemistry and biological | Meet data sufficiency for Impaired Waters Rule |
| | | | SFWMD North of Lake | monitoring for Impaired Waters Rule (Chapter | (Chapter 62-303, Florida Administrative Code) |
| | | | Okeechobee, Kissimmee and | 62-303, Florida Administrative Code). These | and EPA CWA Section 303(d) surface water |
| | | | Caloosahatchee basins. | data are used to assess the waterbody health | assessments. |
| | | | | and for those waterbodies that are verified as | Meets data sufficiency for Total Maximum Daily |
| | | | | impaired, provides data used to develop Total | Loads (TMDLs) development in impaired |
| | | | | Maximum Daily Loads (TMDLs) and evaluate | waterbody segments. |
| | | | | implementation of Basin Management Action | |
| | | | | Plans (BMAPs). | |
| 689 | Salinity | Other - concentration | NE | Water quality monitoring of the northern | Understand how freshwater inflow impacts |
| | | | | estuaries to link freshwater inflow impacts to | estuarine structure and function linking nutrients |
| | | | | changes in water quality including algal blooms | to algal blooms and estuarine productivity |
| 703 | SAV | Other - Percent Cover; Acreage | NE | Northern Estuaries SAV Ecosystem Assessment | Link freshwater inflow to SAV distribution, |
| | | | | | abundance and health in the southern IRL, St. |
| | | | | | Lucie, and Caloosahatchee River estuaries. |
| 189 | SAV | Percent Cover | NE | St. Lucie Estuary Seagrass Restoration Project, | Objective it to determine the specific |
| | | | | analyzing water quality, pore water and seed | preconditions that enable successful seagrass |
| | | | | bank | restoration within the specific area of the St. |
| | | | | | Lucie Estuary. The pilot project will conduct in |
| | | | | | situ data collection from 4 sites representing 2- |
| | | | | | 40 acres. |
| 468 | SAV | Other | All RECOVER Modules and | Surface water chemistry and biological | Meet data sufficiency for Impaired Waters Rule |
| | | | SFWMD North of Lake | monitoring for Impaired Waters Rule (Chapter | (Chapter 62-303, Florida Administrative Code) |
| | | | Okeechobee, Kissimmee and | 62-303, Florida Administrative Code). These | and EPA CWA Section 303(d) surface water |
| | | | Caloosahatchee basins. | data are used to assess the waterbody health | assessments. |
| | | | | and for those waterbodies that are verified as | Meets data sufficiency for Total Maximum Daily |
| | | | | impaired, provides data used to develop Total | Loads (TMDLs) development in impaired |
| | | | | Maximum Daily Loads (TMDLs) and evaluate | waterbody segments. |
| | | | | implementation of Basin Management Action | |
| | | | | Plans (BMAPs). | |

| 244 | SAV | Species Abundance | NE | This project will support research activities, | The objectives of the study are to: |
|-----|--------------|------------------------------|----------------------------|--|--|
| | | | | including assessment of manatee health and | 1. Perform assessments to evaluate manatee |
| | | | | behavioral response to the current | body condition and health. |
| | | | | environmental conditions found in the area of | 2. Determine forage habitat characteristics in |
| | | | | the Unusual Mortality Event (UME). These data | Brevard County and other locations in the UME |
| | | | | will provide information on habitat use, and | area |
| | | | | identify remaining areas with SAV forage | (species composition, abundance, coverage & |
| | | | | species for assessments, spatially correlated | density) and utility as forage for manatees |
| | | | | with prior years' tracking habitat analysis, and | 3. Quantify manatee response to current forage |
| | | | | manatee distribution and | availability |
| | | | | abundance information from prior aerial | 4. Compare current findings with previous |
| | | | | surveys. | results, starting before the persistent algae |
| | | | | | blooms that |
| | | | | | began in 2010 |
| 700 | Vegetation | Canopy Height | NE | Loxahatchee Vegetation Monitoring | Monitor cypress swamp to detect impact of salt |
| | | | | | water intrusion |
| 701 | Vegetation | Species Abundance | NE | Loxahatchee Vegetation Monitoring | Monitor cypress swamp to detect impact of salt |
| | | | | | water intrusion |
| 476 | Vegetation | Other | All RECOVER Modules and | Surface water chemistry and biological | Meet data sufficiency for Impaired Waters Rule |
| | | | SFWMD North of Lake | monitoring for Impaired Waters Rule (Chapter | (Chapter 62-303, Florida Administrative Code) |
| | | | Okeechobee, Kissimmee and | 62-303, Florida Administrative Code). These | and EPA CWA Section 303(d) surface water |
| | | | Caloosahatchee basins. | data are used to assess the waterbody health | assessments. |
| | | | | and for those waterbodies that are verified as | Meets data sufficiency for Total Maximum Daily |
| | | | | impaired, provides data used to develop Total | Loads (TMDLs) development in impaired |
| | | | | Maximum Daily Loads (TMDLs) and evaluate | waterbody segments. |
| | | | | implementation of Basin Management Action | |
| | | | | Plans (BMAPs). | |
| 245 | Wading Birds | Other - Colony size, Nesting | NE - J.N. Ding Darling NWR | Monitoring colonial wading and water bird | Monitor changes in colony bird nesting efforts |
| | | effort per species | | rookeries | and locations |
| | | | | | |
| 698 | Water Depth | Depth | NE | Loxahatchee Groundwater and surface water | Monitor groundwater and surface water depth |
| | | | | monitoring | and salinity to detect impact of salt water |
| | | | | | intrusion into freshwater swamps |

| 490 | Water Depth | Other | All RECOVER Modules and SFWMD North of Lake Okeechobee, Kissimmee and Caloosahatchee basins. | Surface water chemistry and biological monitoring for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code). These data are used to assess the waterbody health and for those waterbodies that are verified as impaired, provides data used to develop Total Maximum Daily Loads (TMDLs) and evaluate implementation of Basin Management Action Plans (BMAPs). | Meet data sufficiency for Impaired Waters Rule (Chapter 62-303, Florida Administrative Code) and EPA CWA Section 303(d) surface water assessments. Meets data sufficiency for Total Maximum Daily Loads (TMDLs) development in impaired waterbody segments. |
|-----|---------------|--|---|---|---|
| 684 | Water Quality | Other - Phosphorus; nitrogen; Sulfate; TSS; DO; Spec. conductance; temp | NE | Internal WQ monitoring in LRSTA, TMC WPA, TCSTA above minimum required for permit | Evaluate nutrient trends to make operational recommendations to improve STAs' performance; used in weekly dashboard creation for operations meetings. |
| 280 | Water Quality | Dissolved Oxygen - chlorophyll a; nutrients; ocean acidification; eDNA; temperature; salinity | NE, SCS, SWS, Florida Keys | Monitoring of water quality and other chemistry and biodiversity metrics in the Florida Keys and southwest Florida shelf | To determine how Everglades restoration affects water quality in the nearshore and downstream FKNMS. Also, systematically measure oceanographic conditions and water quality in areas where red tide frequently blooms |
| 284 | Water Quality | Nutrients - chlorophyll a; dissolved oxygen; ocean acidification; eDNA; temperature; salinity | NE, SCS, SWS, Florida Keys | Monitoring of water quality and other chemistry and biodiversity metrics in the Florida Keys and southwest Florida shelf | To determine how Everglades restoration affects water quality in the nearshore and downstream FKNMS. Also, systematically measure oceanographic conditions and water quality in areas where red tide frequently blooms |
| 288 | Water Quality | Phosphorus - chlorophyll a; nutrients; ocean acidification; eDNA; temperature; salinity | NE, SCS, SWS, Florida Keys | Monitoring of water quality and other chemistry and biodiversity metrics in the Florida Keys and southwest Florida shelf | To determine how Everglades restoration affects water quality in the nearshore and downstream FKNMS. Also, systematically measure oceanographic conditions and water quality in areas where red tide frequently blooms |
| 291 | Water Quality | Temperature - chlorophyll a; nutrients; ocean acidification; eDNA; temperature; salinity | NE, SCS, SWS, Florida Keys | Monitoring of water quality and other chemistry and biodiversity metrics in the Florida Keys and southwest Florida shelf | To determine how Everglades restoration affects water quality in the nearshore and downstream FKNMS. Also, systematically measure oceanographic conditions and water quality in areas where red tide frequently blooms |

| 506 | Water Quality | Other | All RECOVER Modules and | Surface water chemistry and biological | Meet data sufficiency for Impaired Waters Rule |
|-----|---------------|-----------------------------|----------------------------|---|--|
| | | | SFWMD North of Lake | monitoring for Impaired Waters Rule (Chapter | (Chapter 62-303, Florida Administrative Code) |
| | | | Okeechobee, Kissimmee and | 62-303, Florida Administrative Code). These | and EPA CWA Section 303(d) surface water |
| | | | Caloosahatchee basins. | data are used to assess the waterbody health | assessments. |
| | | | | and for those waterbodies that are verified as | Meets data sufficiency for Total Maximum Daily |
| | | | | impaired, provides data used to develop Total | Loads (TMDLs) development in impaired |
| | | | | Maximum Daily Loads (TMDLs) and evaluate | waterbody segments. |
| | | | | implementation of Basin Management Action | |
| | | | | Plans (BMAPs). | |
| 690 | Water Quality | Nutrients | NE | Water quality monitoring of the northern | Understand how freshwater inflow impacts |
| | | | | estuaries to link freshwater inflow impacts to | estuarine structure and function linking nutrients |
| | | | | changes in water quality including algal blooms | to algal blooms and estuarine productivity |
| | | | | | |
| 246 | Water Quality | Other - Salinity, CDOM, DO, | NE - J.N. Ding Darling NWR | WQ monitoring in J.N. Ding Darling NWR, | Monitor changes in WQ related to freshwater |
| | | Chlorophyll | | Sanibel Island FL | discharges from S78 |
| | | | | | |

| Connection to CERP Purpose, Goals, and Objectives | Monitoring Frequency | Start Date | End Date | To be Monitored in the Future? | Comments |
|---|----------------------|------------|----------|--------------------------------|---|
| Moderate | daily | | Present | Yes | |
| Moderate | other - Two events | 2002 | Present | Yes | Lake Condition index (LVI) per DEP SOP LVI 1000 and DEP SOP LVI 2000, in lakes. https://floridadep.gov/dear/bioassessment/content/bio assessment-methods#Lakes |
| High | | 2022 | Present | Yes | |
| High | monthly | 1998 | Present | Yes | Monthly seining occurs in the St. Lucie River Estuary and southern Indian River Lagoon. Not currently used as a RECOVER performance measure. |
| High | monthly | 2016 | Present | Yes | Not currently used as a RECOVER performance measure. For examples of how data can be used to inform Everglades Restoration, see Stevens, P.W., R. Paperno, J.L. Beal, T.C. MacDonald, H.N. Miller, P.A. Klarmann, and C.R. Malinowski. 2022. Identification of fish habitat hotspots for use in prioritizing conservation and restoration projects in coastal rivers, Environ Biol Fish 106:221-235. |

| High | monthly - March through September | 2013 | 2025 | Funds Dependent | Not currently used as a RECOVER performance measure. |
|------|---|------|---------|-----------------|---|
| High | biannually | 2022 | Present | Funds Dependent | Acoustic tagging and fish health occurs biannually (dry season/wet season); fish movements are tracked continuously for duration of tag life (e.g., 1.5 years). This is a joint effort between FWC and SFWMD. Not currently identified as a RECOVER performance measure. |
| High | other - Monthly sampling March through October | 2009 | present | Yes | Surveys are expected to continue provided federal funding (NOAA-NMFS) remains in place. |
| High | | 2021 | Present | Yes | |

| Low/none | | | | | |
|----------|---|------|---------|-----|---|
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| Moderate | other - Different for every waterbody segment (WBID). Typically 5-6 events annually for 2 - 5 years. | 2002 | Present | Yes | Current waterbody segments and analytes can be found on DEP Strategic Monitoring Program webpage. https://floridadep.gov/dear/watershed-assessment- section/content/strategic-monitoring-plans |
| Moderate | other - Different for every waterbody segment (WBID). Typically 5-6 events annually for 2 - 5 years. | 2002 | Present | Yes | Current waterbody segments and analytes can be found on DEP Strategic Monitoring Program webpage. https://floridadep.gov/dear/watershed-assessment- section/content/strategic-monitoring-plans |

| High | other - every other | 1998 | present | Yes | We monitor 2 indicators; water quality and phytoplankton. |
|----------|---|------|---------|--|---|
| High | | 2022 | Present | Funds Dependent | |
| High | quarterly | 2005 | Present | through 9/30/2025, and then funds dependent | |
| Moderate | other - Different for every waterbody segment (WBID). Typically 5-6 events annually for 2 - 5 years. | 2002 | Present | Yes | Current waterbody segments and analytes can be found on DEP Strategic Monitoring Program webpage. https://floridadep.gov/dear/watershed-assessment- section/content/strategic-monitoring-plans |

| Moderate | other - Two events | 2002 | Present | Yes | Lake Condition index (LVI) per DEP SOP LVI 1000 and DEP SOP LVI 2000, in lakes. https://floridadep.gov/dear/bioassessment/content/bio assessment-methods#Lakes |
|----------|---|------|---------|-----|---|
| Moderate | other - Different for every waterbody segment (WBID). Typically 5-6 events annually for 2 - 5 years. | 2002 | Present | Yes | Current waterbody segments and analytes can be found on DEP Strategic Monitoring Program webpage. https://floridadep.gov/dear/watershed-assessment- section/content/strategic-monitoring-plans |
| Moderate | | | | | |
| Low/none | annually - nesting season | 1989 | Present | Yes | FWC coordinates the collection of nesting data through a network of permit holders consisting of federal, state, and local park personnel; other government agency personnel; members of conservation organizations, university researchers; and private citizens. Florida staff members coordinate data collection, provide training, and compile annual survey data for publications and data recession. |

| Low/none | annually - nesting season | 1979 | Present | Yes | FWC coordinates the collection of nesting data through a network of permit holders consisting of federal, state, and local park personnel; other government agency personnel; members of conservation organizations, university researchers; and private citizens. Florida staff members coordinate data collection, provide training, and compile annual survey data for publications and data recession. |
|----------|---------------------------|------|---------|-----|---|
| Low/none | | 2022 | present | Yes | Resampling performed as necessary based on cell/STA performance |
| Low/none | | | | | |
| Moderate | other - Two events | 2002 | Present | Yes | Lake Condition index (LVI) per DEP SOP LVI 1000 and DEP SOP LVI 2000, in lakes. https://floridadep.gov/dear/bioassessment/content/bio assessment-methods#Lakes |

| Moderate | other - Two events | 2002 | Present | Yes | Lake Condition index (LVI) per DEP SOP LVI 1000 and DEP SOP LVI 2000, in lakes. https://floridadep.gov/dear/bioassessment/content/bio assessment-methods#Lakes |
|----------|---|------|---------|-----------------|---|
| High | annually | 2017 | Present | Funds Dependent | |
| Low/none | other - Different for every waterbody segment (WBID). Typically 5-6 events annually for 2 - 5 years. | 2002 | Present | Yes | Current waterbody segments and analytes can be found on DEP Strategic Monitoring Program webpage. https://floridadep.gov/dear/watershed-assessment- section/content/strategic-monitoring-plans |
| High | | 2010 | Present | Yes | |
| High | | 2010 | Present | Yes | |
| High | | 2010 | Present | Yes | |

| High | | 2023 | Present | Yes | |
|----------|---|------|---------|-----------------|--|
| High | | 2023 | Present | Yes | |
| High | | 2023 | Present | Yes | |
| High | monthly | 2005 | 2024 | Funds Dependent | Funds through 2029 dependent on contract renewal from SFWMD and Palm Beach County (PBC not currently in CERP Performance Metric for northern estuaries) |
| High | | 2005 | Present | Yes | |
| High | other - every other month | 1998 | present | Yes | We monitor 2 indicators; water quality and phytoplankton. |
| Moderate | other - 4 events, quarterly for 3 consecutive years. | 2002 | Present | Yes | Phytoplankton is collected in lakes that are verified as impaired for nutrients and or Chlorophyll-a Corrected. The results will be used for data models used for TMDL development. |

| High | | 2011 | Present | Yes | |
|------|---|------|---------|-----|---|
| High | | 2005 | Present | Yes | |
| | | | | | |
| High | other - Different for every waterbody segment (WBID). Typically 5-6 events annually for 2 - 5 years. | 2002 | Present | Yes | Current waterbody segments and analytes can be found on DEP Strategic Monitoring Program webpage. https://floridadep.gov/dear/watershed-assessment- section/content/strategic-monitoring-plans |
| High | | 2011 | Present | Yes | |
| High | | 2017 | Present | Yes | |
| High | | | | | |
| High | other - Two events | 2002 | Present | Yes | Lake Condition index (LVI) per DEP SOP LVI 1000 and DEP SOP LVI 2000, in lakes. https://floridadep.gov/dear/bioassessment/content/bio assessment-methods#Lakes |

| High | biannually | 2021 | 2024 | Funds Dependent | These assessments will allow us to quantify current manatee condition and movement patterns and establish relationships among ecological factors and health indices, summarize changes in habitat quality and manatee habitat use, and compare their condition to previous records collected from the region, both before and during the current vegetation loss and previous UME. |
|------|--------------------|------|---------|-----------------|---|
| High | | 2007 | Present | Yes | behind schedule in meeting the 5 year sampling timeframe |
| High | | 2007 | Present | Yes | behind schedule in meeting the 5 year sampling timeframe |
| High | other - Two events | 2002 | Present | Yes | Lake Condition index (LVI) per DEP SOP LVI 1000 and DEP SOP LVI 2000, in lakes. https://floridadep.gov/dear/bioassessment/content/bio assessment-methods#Lakes |
| High | monthly | 2012 | Present | Funds Dependent | |
| High | | 2005 | Present | Yes | |

| High | other - Different for every waterbody segment (WBID). Typically 5-6 events annually for 2 - 5 years. | 2002 | Present | Yes | Current waterbody segments and analytes can be found on DEP Strategic Monitoring Program webpage. https://floridadep.gov/dear/watershed-assessment- section/content/strategic-monitoring-plans |
|----------|---|---|---------|-----|---|
| Moderate | | Varies with STA coming online; as early as 2008 | Present | Yes | |
| Moderate | other - every other month | 1998 | present | Yes | We monitor 2 indicators; water quality and phytoplankton. |
| Moderate | other - every other month | 1998 | present | Yes | We monitor 2 indicators; water quality and phytoplankton. |
| Moderate | other - every other month | 1998 | present | Yes | We monitor 2 indicators; water quality and phytoplankton. |
| Moderate | other - every other month | 1998 | present | Yes | We monitor 2 indicators; water quality and phytoplankton. |

| Moderate | other - Different for every waterbody segment (WBID). Typically 5-6 events annually for 2 - 5 years. | 2002 | Present | Yes | Current waterbody segments and analytes can be found on DEP Strategic Monitoring Program webpage. https://floridadep.gov/dear/watershed-assessment- section/content/strategic-monitoring-plans |
|----------|---|------|---------|-----------------|---|
| Moderate | | 2011 | Present | Yes | |
| High | daily | 2018 | Present | Funds Dependent | |

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