

# ***DRAFT***

# ***2024 South Florida Environmental Report***

## **VOLUME I**

## **THE SOUTH FLORIDA ENVIRONMENT**

**Acronyms, Abbreviations, and Units of Measurement | Glossary | Conversion of Units of Measurement**

### **Chapter 2A: South Florida Hydrology and Water Management**

- Appendix 2A-1: Area Maps and Major Hydrologic Components
- Appendix 2A-2: Monthly Totals for Water Year 2023 Rainfall and Potential Evapotranspiration, and Historical Average Rainfall
- Appendix 2A-3: Monthly Flows for Water Year 2023, Water Year 2022, and Historical Averages
- Appendix 2A-4: Daily and Monthly Average Stages for Water Year 2023, Water Year 2022, and Historical Averages
- Appendix 2A-5: Water Year 2023 Groundwater Levels

### **Chapter 2B: Water Climate Resilience Metrics**

- Appendix 2B-1: Trends in Tidal Water Levels at Coastal Structures

### **Chapter 3: Water Quality in the Everglades Protection Area**

- Appendix 3-1: Water Year 2023 Water Quality Monitoring Results
- Appendix 3-2: Water Years 2019–2023 Water Quality Monitoring Results at Individual Stations
- Appendix 3-3: Water Year 2023 Attainment of the Everglades Dissolved Oxygen Site-Specific Alternative Criteria at Individual Stations
- Appendix 3-4: Water Year 2023 Total Phosphorus and Total Nitrogen Concentrations at Individual Stations
- Appendix 3-5: Water Year 2023 and Five-Year (Water Years 2019–2023) Annual Flows and Total Phosphorus Loads and Concentrations by Structure and Area
- Appendix 3-6: Water Years 2019–2023 Annual Total Phosphorus Criteria Compliance Assessment

### **Chapter 4: Nutrient Source Control Programs in the Southern Everglades**

- Appendix 4-1: Supplemental Information for the Everglades Agricultural Area Basin
- Appendix 4-2: Supplemental Information for the C-139 Basin
- Appendix 4-3: Supplemental Information for Other Tributary Basins

### **Chapter 5A: Restoration Strategies – Design and Construction Status of Water Quality Improvement Projects**

### **Chapter 5B: Performance and Operation of the Everglades Stormwater Treatment Areas**

- Appendix 5B-1: Stormwater Treatment Areas and Everglades Agricultural Area A-1 Flow Equalization Basin Schematic Maps
- Appendix 5B-2: Implementation of the Long-Term Plan for Achieving Water Quality Goals for the Everglades Protection Area Tributary Basins
- Appendix 5B-3: Summary of Stormwater Treatment Area Black-necked Stilts and Other Protected Birds during the 2023 Nesting Season
- Appendix 5B-4: Submerged Aquatic Vegetation Coverage in the Stormwater Treatment Areas
- Appendix 5B-5: Dryout in the Everglades Stormwater Treatment Areas

# ***DRAFT***

## ***2024 South Florida Environmental Report***

### **Chapter 5C: Restoration Strategies Science Plan**

- Appendix 5C-1: Evaluation of Factors Contributing to the Formation of Floating Tussocks in the Stormwater Treatment Areas
- Appendix 5C-2: Improving Resilience of Submerged Aquatic Vegetation in the Stormwater Treatment Areas
- Appendix 5C-3: The Effect of Vertical Advective Transport on Total Phosphorus Concentrations in the Stormwater Treatment Areas

### **Chapter 6: Everglades Research and Evaluation**

### **Chapter 7: Status of Invasive Species**

### **Chapter 8A: Northern Everglades and Estuaries Protection Program – Annual Progress Report**

### **Chapter 8B: Lake Okeechobee Watershed Protection Plan Annual Progress Report**

- Appendix 8B-1: Water Year 2023 Lake Okeechobee Watershed Upstream Monitoring
- Appendix 8B-2: Results from Water Year 2023 Expanded Lake Okeechobee Phytoplankton and Water Quality Monitoring Program

### **Chapter 8C: St. Lucie River Watershed Protection Plan Annual Progress Report**

- Appendix 8C-1: Water Year 2023 St. Lucie River Watershed Upstream Monitoring
- Appendix 8C-2: Estuarine Water Quality Modeling: Zero-Dimensional Theory and Its Application in a Shallow Subtropical Estuary in Florida
- Appendix 8C-3: Phytoplankton in the C-44 Canal and St. Lucie Estuary: Relationships to Water Quality
- Appendix 8C-4: Acoustic Telemetry to Determine Response of Large-Bodied Fishes to Freshwater Inflows in the St. Lucie Estuary

### **Chapter 8D: Caloosahatchee River Watershed Protection Plan Annual Progress Report**

- Appendix 8D-1: Water Year 2023 Caloosahatchee River Watershed Upstream Monitoring

### **Chapter 9: Kissimmee River Restoration and Other Kissimmee Basin Initiatives**

**Back to the Top**