



## Save Our Indian River Lagoon Project Plan March 2022 Progress Report

### WORK COMPLETED THIS MONTH:

- 2022 Plan Update approved at the 2/22/22 County Commission Meeting
- Sewer design contract executed for South Beaches A, South Central A, & South Central D
- 5 Septic Upgrades reimbursements processed for a total of 60 completed to date
- 2 Quick Connect reimbursements processed for a total of 37 completed to date
- City of West Melbourne Ray Bullard Stormwater Project completed
- Cocoa J and K Septic to Sewer – Design complete. Met with City to discuss grant funding opportunities.
- Sykes Creek Phase I Muck Dredging – Construction contract executed
- Eau Gallie Northeast Muck Dredging – Permission to cross the Intercoastal Waterway received
- Living Shoreline Performance - University of Central Florida 18-month monitoring at the Ahmed-Niland oyster bar observed heavy sedimentation at some of the modules, but stable oyster density overall with continued growth and recruitment
- Remote Sensing of Harmful Algae Blooms – Weekly reports were received and shared. Historical (2015-2021) satellite data was acquired and analyzed. Surface water quality data collected by St Johns River Water Management District monthly at 32 stations were compared to 157 Sentinel 2 and 564 Sentinel 3 scenes. Algorithms were developed for estimating Chlorophyll a concentrations from the remotely sensed Normalized Difference Chlorophyll Index (NDVI) values.
- Amendments executed – Cocoa Beach Phase IIb Muck Dredging
- Derelict Vessels – 3 removed
- Video Completed – Basin 26 (Sunset Ave) Stormwater Treatment

### WORK UNDERWAY THIS MONTH:

- South Central C Septic-to-Sewer –southern section lift station under construction
- Sykes Creek N Septic-to-Sewer –Permit submittal under review by Utility Services
- Micco Septic-to-Sewer –Contracting with the successful low bidder for construction contract
- South Beaches P Septic-to-Sewer – Permitting in progress
- Sunset Ave/Serenity Park/Basin 26 Stormwater Treatment – Construction underway
- Scottsmoor C & I Stormwater Treatment – Going out to bid
- Kingsmill-Aurora Phase II - Design underway, going through wetlands delineation
- Basin 958 Pioneer Road – Concept 100% done, design at 30% completion, applied for SJRWMD Grant
- Grand Canal Muck Dredging – Site preparation is underway for dredging to resume after March 15<sup>th</sup>
- Satellite Beach and Indian Harbor Beach Grand Canal Muck Dredging –Design underway
- Canaveral South Muck Dredging – Field data collection underway
- Pineda BRL Muck Dredging – Coordination of field data collection task order underway
- Brevard Zoo is installing an oyster bar at Ryckman Park
- Grant-funded Remote Algae Bloom Sensing study – High frequency bloom areas are being compared to stormwater outfall, septic community, muck deposit and seagrass locations. Drone flights beginning.
- Notice of Funding sent for projects added in the Save Our Indian River Lagoon Project Plan 2022 Update
- Video progress – Phase 1 of McNabb Oyster Prisms filmed, waiting on spring installation for phase 2



#### **PRESENTATIONS THIS MONTH:**

February 10 - Citizen's Academy – Virginia

February 23 – ABC Good Morning America Interviews – Laurilee Thompson, Virginia and Terri

March 23 – Palm Bay Sustainability Board - Brandon

April 27 – Center for Watershed Protection Conference - Terri

#### **UPCOMING LAGOON SCIENCE FORUMS AND PUBLIC EVENTS:**

March 10 – Marine Resources Council [Indian River Lagoon Report Card online](#)

March 21 – Marine Resources Council [Indian River Lagoon Report Card in Cape Canaveral](#)

April 21 & 22 – [Indian River Lagoon Symposium](#)

#### **UPCOMING VOLUNTEER PARTICIPATION OPPORTUNITIES:**

March 11 & 12 – [Brevard Zoo Restore Ryckman Park Oyster Bar Build](#)

March 15 – Brevard Zoo Restore Our Shores [Clam Bed Installation](#)

March 26 & April 2 – Brevard Zoo Restore Our Shores [Oyster Supply Making](#)

Brevard Zoo Restore Our Shores [Clam Restoration Project seeking volunteers](#)

Marine Resources Council Super Clam monitoring seeking volunteers – [Email Caity Savoia to register](#)

Rotary Park rain garden maintenance – [Email Carlos Cuevas for opportunities](#)

Storm drain marking in Cocoa – [Email Carlos Cuevas for opportunities](#)

Storm drain marking in Melbourne – [Email Bri Forte for opportunities](#)

#### **WEBSITE AND SOCIAL MEDIA LINKS:**

[Lagoon Loyal Outreach and Engagement Landing Page](#)

[Save Our Indian River Lagoon Website](#)

[Save Our Indian River Lagoon Facebook](#)

[Save Our Indian River Lagoon Instagram](#)

[Save Our Indian River Lagoon YouTube](#)

#### **FUTURE TOPICS FOR SPECIAL PRESENTATIONS:**

1. Pollution and Algal Bloom Mapping via Satellite Imagery Interpretation
2. Low Impact Development/Resilience – Local examples, efforts and potential opportunities
3. Surface Water Remediation – Ferrate, S.W.I.G., D.T.G., Chemical Tech, HABITATS
4. Lagoon projects managed and funded by other agencies, entities or grant programs
5. Indian River Lagoon Research News: TechCon, Shore, and Harbor Branch Symposium Highlights
6. Water Technology Conference/Industry Day – Economic Development and National Estuary Program
7. Completed and Ongoing Lagoon Research – Florida Tech Research Initiative
8. Lagoon Fish and Fisheries Research – Dr. Grant Gilmore
9. Nutrient Loading Impacts of Reclaimed Water
10. Project Performance Measurement Results
11. Soil Guardians Program – Sally Scalera
12. Microplastics in the Lagoon
13. Herbicide Alternatives
14. Clam Restoration and Aquaculture Stimulus Projects
15. Zoo Conservation and Aquarium