



Save Our Indian River Lagoon Project Plan November 2023 Progress Report

WORK COMPLETED THIS MONTH:

- Melbourne Tillman Water Control District completed their Vegetation Harvesting Project
- Leaky Lateral Repairs – 506 of 649 detected private sewer leaks have been repaired; 66 grant applications received; 54 payments processed
- Quick Connects – 8 more reimbursements processed of 128 to date; 408 agreements executed. Over 280 sewer connection applications have been requested by homeowners since the most recent mailing
- Septic Upgrades – 4 more reimbursement processed of 207 to date; 351 total agreements executed
- University of Central Florida conducted monitoring at McNabb Park. Survival of mangroves in the planter boxes was 77-89% and smooth cordgrass was 94%. Mangroves are developing prop roots and flowers and the cordgrass shoot density increased. Many of the oyster treatments had declines in oyster density with variable results between treatments, but surviving oysters are growing.
- Videos: AECOM Algae Harvesting
- Contracts - Rockledge Flow Equalization Basin time extension executed

WORK UNDERWAY THIS MONTH:

- 2024 project applications were reviewed, ranked and matched with potential substitution options
- Economic forecasts updated for revenues and expenses
- 8 Derelict Vessels Removed
- Micco Sewer Line Extension – 95% complete; preparing for lift station start-up
- South Central C Septic-to-Sewer – 94.2% complete; second lift station start-up successful, awaiting FPL power connection for the third and final lift station and state approval to start connecting homes
- Brevard County Septic-to-Sewer – South Banana Zone B in permitting; submitting permit applications for Merritt Island Zone F; preparing Sykes Creek Zone N and South Beaches Zones O & P for bidding; 75% design review complete for North Merritt Island Zone E; 75% design under review for Sykes Creek M; 75% design underway for Micco Zone B, Sykes Creek Zones R & T; 30% design underway for Sharpes Zones A & B, Cocoa Zone C, South Central Zone D, and Merritt Island Zones C & G
- Basin 2258 Babcock Road Woodchip Bioreactor – Final design underway and bid docs in preparation
- Basin 998 Hampton Homes, Basin 1066 Angel Ave, Basin 1398 Sand Dollar Canal Bioreactor – Design underway
- Grand Canal Muck Dredging – Dredging underway; Approximately 311,558 cubic yards removed
- Sykes Creek Phase 1 Muck Dredging – DMMA restoration plan under review
- Sykes Creek Phase 2 Muck Dredging – Taylor Engineering consulting services contract executed. Gopher tortoise relocation scheduled for November 13th-15th
- Eau Gallie Muck Dredging – Technical Specifications under review; Seagrass survey conducted
- Canaveral South Muck Dredging – RFQ for engineering consulting services closed on October 20th. Selection committee will meet November 7th
- FDEP Innovative Technology Grant – AECOM's algae harvesting project completed 2 weeks of harvesting in Titusville and moved to Melbourne Beach area
- Contracts – Cocoa Beach McNabb Outfall Bioretention out for signature; received scope of work for Cocoa Beach Golf Course Aquatic Vegetation Harvesting, Woodland Business Center Stormwater Project, Titusville Osprey Basin Smoke Testing, and Willow Lakes Package Plant Connection



PRESENTATIONS THIS MONTH:

Scienceline interview for their upcoming article – Brandon
Florida Today Opinion Column - Virginia

UPCOMING LAGOON SCIENCE FORUMS AND PUBLIC EVENTS:

November 18 – [Indian River Lagoon Day](#)

November 15 – Ocean Research & Conservation Association [Lab Technique Training: Pipetting and Dilutions](#)

November 16 – Ocean Research & Conservation Association [Introduction of ORCA Citizen Science Projects](#)

November 28 – Ocean Research & Conservation Association [Lab Technique Training: Particle Analysis](#)

November 15 – Ocean Research & Conservation Association [Introduction to Fish Monitoring and Processing](#)

UPCOMING VOLUNTEER PARTICIPATION OPPORTUNITIES:

October 16- Brevard Zoo's Restore Our Shores [Oyster Sorting](#)

November 13 – Ocean Research & Conservation Association [Fish Homogenization – Register with Missy Weiss](#)

October 23- Brevard Zoo's Restore Our Shores [Oyster Sorting](#)

November 28 – Ocean Research & Conservation Association [Particle Analysis - Email Wyatt To Register](#)

November 29 – Ocean Research & Conservation Association [Native Plant Nursery - Email Wyatt To Register](#)

November 29 – Ocean Research & Conservation Association [Fish Processing - Email Missy Weiss To Register](#)

November 3 – Marine Resources Council [First Friday Litter Patrol](#)

Space Coast Surfrider Foundation Blue Water Task Force Monitoring – [Email Chis Baker for more information](#)

Florida Horseshoe Crab Watch – [Email Holly Abeels for more information](#)

Ocean Research & Conservation Association Pollution Mapping equipment cleaning – [Email Veronica to signup](#)

Marine Resources Council super-clam monitoring, storm drain marking in Melbourne, and Concrete Creations Program seeking volunteers – [Email Caitlin Bagnall to register](#)

Rotary Park rain garden maintenance or storm drain marking in Cocoa – [Email Carlos Cuevas for opportunities](#)

Pineda Waterway Warriors Cleanup – Every 2nd Saturday under Tropical Trail Exit overpass – [Email Sherill](#)

WEBSITE, SOCIAL MEDIA, NEWSLETTER, AND REPORT LINKS:

[Lagoon Loyal Outreach & 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](#)

[Sign up for our Monthly Newsletter](#)

[Sign up for our Weekly Harmful Algal Bloom Reports](#)

FUTURE TOPICS FOR SPECIAL PRESENTATIONS:

1. Septic Upgrade Rules & Inground Nitrogen Reducing Bioreactor Septic Drain Field Pilot Project Findings
2. Lagoon Project Feasibility Study Update by St Johns River Water Management District
3. Regional Wastewater Treatment Feasibility Study by the Economic Development Commission
4. Surface Water Remediation Technologies
5. Turf grass options and alternatives
6. Lagoon Projects - managed and funded by other agencies, entities, or grant programs
7. Nutrient Loading Impacts of Reclaimed Water
8. Project Performance Measurements and Cost-Effectiveness Results
9. Super Clam Restoration and Aquaculture Stimulus Projects
10. Shoreline Armor and Living Shoreline Permitting Authorities, Rules, and Opportunities
11. Isotope studies