Brevard County
Save Our Indian River Lagoon Project Plan
Citizen Oversight Committee

November 15, 2024 – 8:30 to 11:30 am
Brevard County Government Center
2725 Judge Fran Jamieson Way
Building C, 3rd Floor, Florida Room
Viera, Florida 32940

I. Call to Order and Pledge of Allegiance

II. Roll Call

III. Approval of the Agenda

IV. Approval of Minutes

V. Progress and Fiscal Reports

a) Monthly Progress Report – Virginia Barker, Director

b) Monthly Revenue Graph & Financial Statements – Molly Bryan, Fiscal Analyst

c) Quarterly Financial & Grant Statement – Molly Bryan, Fiscal Analyst

d) Quarterly Project Update – Aleah Ataman, Associate Environmental Specialist

VI. Other Reports and Special Presentations

a) Brevard County Half-Cent Sales Surtax - Save Our Indian River Lagoon Fiscal Year 2023 Internal Audit Report – Michelle Coppola, Manager, and Jennifer Murtha, Partner, RSM US

b) Video - Rockledge Flow Equalization Basin Project

VII. Old Business

VIII. New Business

a) 2025 Funding Requests and Recommendations for the 2025 Plan Update

b) City of Palm Bay Zone A Septic to Sewer Project Funding Request

IX. General Public Comments

X. Final Comments by Chair and Committee Members

XI. Adjournment

Save Our Indian River Lagoon
Citizen Oversight Committee Meeting Minutes
October 18, 2024 – 8:30 a.m.
2725 Judge Fran Jamieson Way, Bldg. C,
3rd Floor, Florida Room
Viera, FL 32940

Members Present:

Expertise	Member	Present	Alternate	Present
Science	Lorraine Koss	Yes	Charles Venuto	Yes
Technology	Vinnie Taranto-Chair	Yes	Don Deis	Yes
Education	Stephany Eley	Yes	Kimberly Newton	No
Finance	Todd Swingle	Yes	Curt Smith	Yes
Tourism	Bobby Putnam	Yes	Laurilee Thompson	Yes
Real Estate	Barbara Wall-Scanlon – Vice Chair	Yes	Eric Mannes	No
Lagoon Advocacy	John Windsor	Yes	Terry Casto	Yes

Staff Present:
Virginia Barker, Brevard County Natural Resources Management Director
Heather Balser, Assistant County Attorney
Terri Breeden, Environmental Section Supervisor
Brandon Smith, Environmental Specialist III
Anthony Gubler, Environmental Specialist III
Jeanne Allen, Engineer III
Cole Stubbe, Engineer I
Molly Bryan, Fiscal Analyst
Aleah Ataman, Associate Environmental Specialist
Abbey Gering, Associate Environmental Specialist
Beb Sebastian, Environmental Specialist II
Melanie Howarter, Associate Environmental Specialist
Jenny Hansen, Environmental Scientist
Joshua Hibbard, Contract Administrator
Jaculin Watkins, Executive Secretary

I. Call to Order

The meeting was called to order at 8:30 a.m.

II. Roll Call

A quorum was established.

III. Approval of the Agenda

John Windsor moved to approve the Agenda; seconded by Lorriane Koss.

There was no public comment for the motion. Motion was unanimously approved.

IV. Approval of Minutes

John Windsor moved to approve the Minutes; seconded by Stephany Eley.

There was no public comment for the motion. Motion was unanimously approved.

V. Progress and Fiscal Reports

a. Monthly Progress Report – Virginia Barker, Director

Virginia Barker presented a review the Monthly Progress Report for October, and Terri Breeden then provided an overview of the project applications received for possible inclusion in the project plan update, which will be provided to the Citizen Oversight Committee for review in November. Ms. Barker continued with an update on the status of proposed changes to the Citizen Oversight Committee structure, with delays caused by Hurricane Milton, and then highlighted additional progress updates. Discussion ensued. Ms. Barker responded to the Committee's questions.

b. Monthly Revenue Graph and Financial Statements – Molly Bryan, Fiscal Analyst

The Monthly Revenue Graph and Financial Statement were reviewed by Molly Bryan. Discussion ensued. Ms. Barker responded to the Committee's questions.

VI. Other Reports and Special Presentations

a. Water Quality Conditions Review and Seagrass Mapping - Lauren Hall, St Johns River Water Management District, Environmental Scientist IV, Coastal Section, Bureau of Environmental Sciences

Lauren Hall presented a bonus PowerPoint presentation on water quality changes associated with . Discussion ensued. Ms. Hall and Ms. Barker responded to the Committee's questions. Ms. Hall then continued with the planned presentation on Seagrass Mapping. Discussion continued, and Ms. Hall and Ms. Barker responded to the Committee's questions.

(10-minute break)

b. Seagrass Nurseries - Kathy Hill, Deputy Director, Indian River Lagoon National Estuary Program

Kathy Hill gave a PowerPoint presentation with a progress update on their seagrass nursery project. Discussion ensued. Ms. Hill responded to the Committee's questions.

c. Investigating Methods Seagrass Restoration in the Indian River Lagoon – Jenny Hansen, Brevard County Environmental Scientist

Jenny Hansen gave a PowerPoint presentation on the County's installation and preliminary results for seagrass restoration testing five planting methods in two locations in the Indian River Lagoon. Discussion ensued. Dr. Hansen responded to the Committee's questions.

d. Video – Seagrass Restoration Experimental Design

Brandon Smith presented a video on five different types of seagrass restoration methods being tested by the County in the Indian River Lagoon. Discussion ensued. Dr. Hansen responded to the Committee's questions.

VII. Old Business

No old business was heard.

VIII. New Business

a. Brevard County Utilities' Septic to Sewer Contingency Requests for Sykes Creek Zones M. N, and T

Anthony Gubler, Environmental Specialist III, presented an overview of the construction bids received for the Sykes Creek Zone M, N, and T Septic to Sewer projects and options for using contingency funds for the amounts that exceed the available budget. Discussion ensued. Ms. Barker and Mr. Gubler responded to the Committee's questions.

Stephany Eley moved to recommend to the Board of County Commissioners that Zone N and T be separated from Zone M, and approve the contingency funding requests for Zone N and T to proceed with construction.

Additional discussion ensued. Mr. Gubler and Ms. Barker responded to the Committee's questions.

Motion was seconded by Todd Swingle, followed by additional discussion regarding amending the motion to not exclude Zone M. Ms. Barker responded to the Committee's additional questions. A recommendation was made by Curt Smith to include a recommendation of contingency funding for Zone M.

The motion amendment to include Zone M was accepted by Stephany Eley, and Todd Swingle accepted the amendment with the contingency to, if possible, revisit award of M if the pending grant is not awarded. He also recommended being mindful of cancellation clauses during the procurement process. The motion was

then clarified to include reallocating the remaining $2.24M of surplus budget from South Beaches A to offset the funding needs of Sykes Creek M.

Public comments were heard. Additional discussion ensued.

Motion was unanimously approved.

IX. General Public Comments

Public comments were heard under New Business, item VIII.a.

X. Final Comments by Chair and Committee Members

Final comments were heard.

XI. Adjournment

Meeting was adjourned at 11:15 a.m.

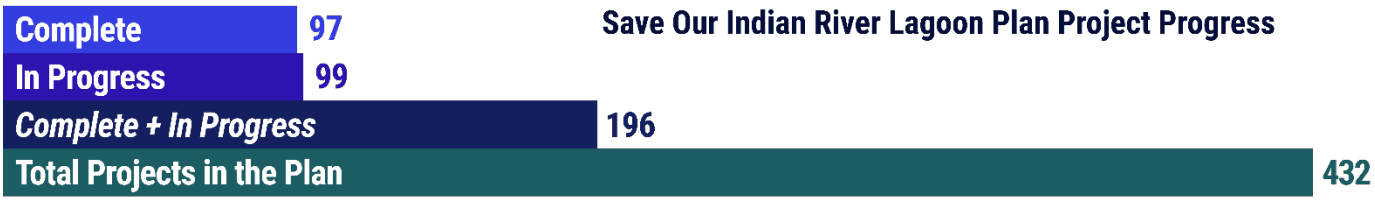
Save Our Indian River Lagoon Project Plan
November 2024 Progress Report

WORK COMPLETED THIS MONTH:

- Citizen Oversight Committee Structural Change Ordinance was approved by the County Commission on 10/22
- All eligible reappointments and both emeritus members were approved by the County Commission on 10/22
- Leaky Lateral Repairs – 1 more for a total of 689 out of 716 code cases resolved plus 18 voluntary repairs
- Quick Connects – 2 more reimbursements processed of 392 to date; 513 agreements executed
- Septic Upgrades – 5 more reimbursements processed of 327 to date; 542 total agreements executed
- City of Titusville Riverfront Center Nutrient Removing Filtration boxes – complete
- City of Cocoa Beach Golf Course Stormwater Pond Vegetation Harvesting - complete
- Brevard Zoo Oyster Reefs – the Banana River Pilot and the Turkey Creek Offshore projects are constructed
- University of Central Florida completed 1-year monitoring at Rainwater, counting 13,655 oysters at a density of 1,166 to 4,117 oysters per square meter, documenting recruitment and 14% of the oysters being adult sized
- Contracts executed – #24-187 Central IRL Oyster 3 and #24-217 Central IRL Oyster 4
- Derelict Vessels – 2 Vessel Removed
- Education and Outreach – Spark Tide Lagoon Loyal Task Order is complete
- Videos: Rockledge Flow Equalization Basin is complete

WORK UNDERWAY THIS MONTH:

- 2025 Plan Update drafting is underway
- South Central C Septic-to-Sewer – 131 of 151 homeowner connections completed
- South Beaches A Septic to Sewer – 21 of 37 connection agreements executed
- Micco Septic-to-Sewer – 1 of 29 parcels connected
- Brevard County Sykes Creek Zone M, N & T Septic-to-Sewer – bid negotiation scheduled for 11/6
- Brevard County Septic-to-Sewer – South Banana Zone B, and South Beaches Zones O & P are in the bid que
- Brevard County Septic-to-Sewer – 100% design received and state permit applications submitted for Merritt Island Zones F & C; 75% design underway for Sykes Creek Zones R, North Merritt Island Zone E, South Central D; Cocoa Zone C and Sharpes Zone B; 30% design underway for Sharpes Zones A, Micco Zone B, and Merritt Island Zones G; preliminary design started and homeowner letters sent for South Central Zone A
- Brevard County Stormwater Basin 71 Flounder – Contracted with W&J Construction
- Brevard County Stormwater Basin 958/960 Pioneer – Contracting with Universal Contracting and Construction
- Brevard County Stormwater Basin 1280B Flamingo - Rejecting two bids that are over budget
- Grand Canal Muck Dredging – underway; approximately 416,301 cubic yards dredged as of 10/14
- Eau Gallie Muck Dredging – Bid Technical Specifications in development for redesigned project
- Sykes Creek Phase 2 Muck Dredging – Bid Technical Specifications in development for redesigned project
- Titusville Causeway Multi-Trophic Restoration & Living Shorelines Resiliency Project – Final Wave Attenuation Devices being poured; Survey for Wave Attenuation Devices placement being conducted
- Seagrass and Oyster Restoration Resilience Project – Herbivory Exclusion Devices were displaced by Hurricane Milton; monitoring continues to be conducted monthly
- Contracts – State grant L0010 Septic Upgrades, 1 Brevard Zoo Oyster Project, and 5 amendments in review
- Education and Outreach – SparkTide Outreach Campaigns task order is in the signature process



PRESENTATIONS THIS MONTH:

October 19 – Oyster Gardener Training – Abbey
October 19 – Little Growers Make a Green Noise – Virginia
October 22 – Oyster Gardener Training – Brandon
October 29 – American Society for Civil Engineers Space Coast Branch – Virginia
October 30 – A Day in the Life of the Indian River Lagoon – Terri & Aleah
November 8-10 – Native Rhythms Festival – Abbey, Brandon, Melanie, & Molly
November 9 – Indian River Lagoon Day – Abbey & Cole

UPCOMING LAGOON SCIENCE FORUMS AND PUBLIC EVENTS:

November 9 – Indian River Lagoon Day
November 12 – Ocean Research and Conservation Association Lecture Series Lagoon 101
November 22 – Ocean Research and Conservation Association Introduction to Fish Monitoring
December 10 – Brevard Indian River Lagoon Coalition Straight Talk
December 10 – Ocean Research and Conservation Association Lecture Series Lagoon 101

UPCOMING VOLUNTEER PARTICIPATION OPPORTUNITIES:

November 15-17– Ocean Research and Conservation Association Riverview Park Living Shoreline Install
November 20 – Ocean Research and Conservation Association Learn to Pipette
November 22 – Ocean Research and Conservation Association Introduction to Fish Monitoring
November 22 – Ocean Research and Conservation Association Fish Processing & Extractions
November 23 – Marine Resource Council Mangrove Workshop
November 23 – Waterway Warriors Indian River Lagoon Cleanup
December 6 – Marine Resources Council First Friday Litter Patrol
December 13 – Marine Resource Council Mangrove Workshop
December 14 – Waterway Warriors Indian River Lagoon Cleanup

Ongoing volunteer opportunities:

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 Missy Weiss
Ocean Research & Conservation Association microplastic analysis – Email Missy Weiss
Rotary Park rain garden maintenance or storm drain marking – Email Carlos Cuevas

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
Visit Lagoon Loyal for home pollution reduction tips

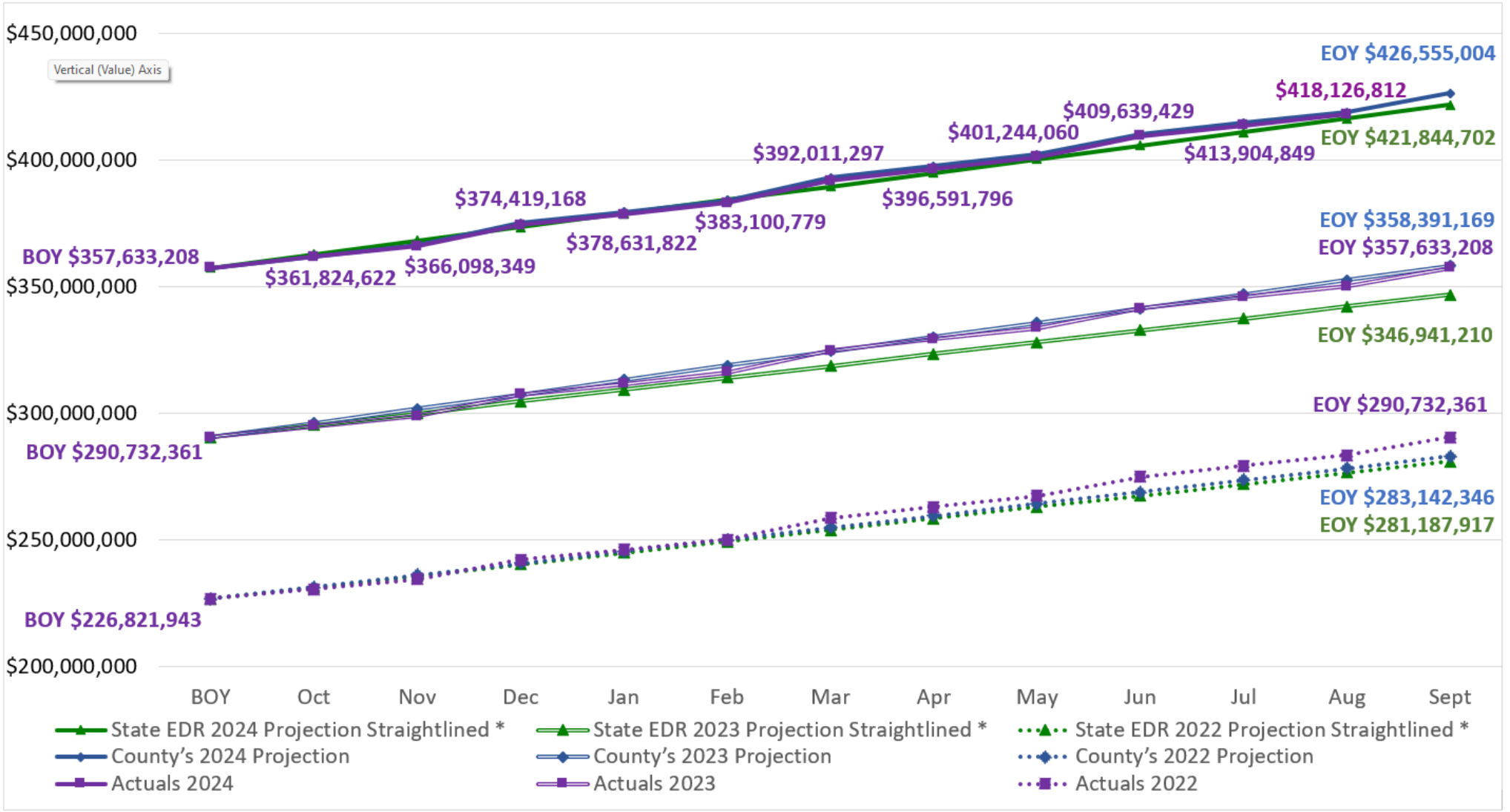
FUTURE TOPICS FOR SPECIAL PRESENTATIONS:

Vessel Mooring, Anchoring and Pump-out Enforcement
Lagoon Projects - Managed and Funded by Other Agencies, Entities, or Grant Programs
Project Performance Measurements and Cost-Effectiveness Results - McNabb Shoreline Projects
Inground Nitrogen Reducing Bioreactor Septic Drain Field Pilot Project Findings
Shoreline Armor and Living Shoreline Permitting Authorities, Rules, and Opportunities
Turf Grass Options and Alternatives

Save Our Indian River Lagoon Revenues Cumulative Graph
Fiscal Years 21-22, 22-23 and 23-24

* Economic and Demographic Research Data is sourced from Florida's Office of Economic & Demographic Research using their Estimation of Realized and Unrealized Tax Revenues Table

- Projected and Actual Data is from Systems, Applications and Products program
- EDR (Economic and Demographic Research) Data, BOY (Beginning of Year), EOY (End of Year)
- For Screen Readers use the Save Our Indian River Lagoon Revenues Cumulative Chart Fiscal Year 20-21 to Current Fiscal Year Table
- Updated the State EDR Beginning of Year to match Actuals End of Year to the prior Fiscal Years



Save Our Indian River Lagoon Revenues Cumulative Chart
Fiscal Years 21-22, 22-23 and 23-24

Economic and Demographic Research Data is sourced from Florida's Office of Economic & Demographic Research using their Estimation of Realized and Unrealized Tax Revenues Table

- Projected and Actual Data is from Systems, Applications and Products program
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Month	State EDR 2024 Projection Straight-lined *	County's 2024 Projection	Actuals 2024	State EDR 2023 Projection Straight-lined *	County's 2023 Projection	Actuals 2023	State EDR 2022 Projection Straight-lined *	County's 2022 Projection	Actuals 2022
BOY	**$357,633,208**	**$357,633,208**	**$357,633,208**	**$290,732,361**	**$290,732,361**	**$290,732,361**	**$226,821,943**	**$226,821,943**	**$226,821,943**
Oct	$362,984,166	$362,138,073	$361,824,622	$295,416,432	$296,370,595	$294,991,249	$231,352,441	$231,515,310	$230,665,218
Nov	$368,335,124	$366,476,167	$366,098,349	$300,100,502	$302,008,829	$299,092,473	$235,882,939	$236,208,677	$234,614,208
Dec	$373,686,082	$375,361,146	$374,419,168	$304,784,573	$307,647,063	$307,492,311	$240,413,437	$240,902,044	$242,347,634
Jan	$379,037,039	$379,731,879	$378,631,822	$309,468,644	$313,285,297	$311,773,147	$244,943,935	$245,595,411	$246,260,610
Feb	$384,387,997	$384,302,369	$383,100,779	$314,152,715	$318,923,531	$316,249,631	$249,474,432	$250,288,778	$250,342,140
Mar	$389,738,955	$393,126,019	$392,011,297	$318,836,785	$324,561,765	$324,891,795	$254,004,930	$254,982,145	$258,706,447
Apr	$395,089,913	$397,793,163	$396,591,796	$323,520,856	$330,199,999	$329,462,945	$258,535,428	$259,675,512	$263,179,622
May	$400,440,871	$402,313,719	$401,244,060	$328,204,927	$335,838,233	$333,890,522	$263,065,926	$264,368,879	$267,470,408
Jun	$405,791,829	$410,178,239	$409,639,429	$332,888,998	$341,476,467	$341,593,283	$267,596,424	$269,062,246	$275,034,484
Jul	$411,142,786	$414,778,122	$413,904,849	$337,573,068	$347,114,701	$346,098,557	$272,126,922	$273,755,612	$279,374,282
Aug	$416,493,744	$419,010,706	$418,126,812	$342,257,139	$352,752,935	$350,244,084	$276,657,419	$278,448,979	$283,600,235
Sept	$421,844,702	$426,555,004		$346,941,210	$358,391,169	$357,633,208	$281,187,917	$283,142,346	$290,732,361

FY 2024 Monthly Financial Statement

Save Our Indian River Lagoon

Date Range 01 October 2023 – 04 November 2024

*Total Assigned YTD-Year to Date, includes all stages of accounting for expenditures, with data derived from Systems, Applications and Products program

Revenues	Budget	Total Assigned YTD*	% Earned
Taxes	$ 68,724,435	$ 60,493,604	88.02%
Interest Earned	$ 8,448,058	$ 13,521,671	160.06%
Other Federal Grants	$ 8,703,714	$ 3,838,000	44.10%
Other State Grants	$ 37,082,410	$ 2,649,025	7.14%
Tourism Development Council Grants	$ 263,158	$ 214,842	81.64%
Other Physical Environmental Grants	$ 1,646,543	$ 321,777	19.54%
American Rescue Plan Act (ARPA)	$ 2,907,840	$ -	0.00%
Statutory Reduction	$ (6,243,418)	$ -	0.00%
Balance Forward	$ 296,802,384	$ 303,180,205	102.15%
Total	**$ 418,335,124**	**$ 384,219,124**	91.84%

Expenditures (Roll-Up)	Budget	Total Assigned YTD*	Actuals
Compensation & Benefits	$ 1,400,177	$ 1,275,742	$ 1,276,306
Operating Expenses	$ 266,244	$ 255,177	$ 239,007
Capital Outlay	$ 114,502	$ 104,318	$ 104,318
SOIRL Projects funded under Operating Expenses (Non-Capital County Project & Programs)	$ 3,552,382	$ 2,091,103	$ 1,183,154
SOIRL Projects funded under Capital Improvement (County Projects over $35K)	$ 190,516,852	$ 29,902,447	$ 9,896,264
SOIRL Projects funded under Aid to Gov't Agencies (Cities & Water Management Districts)	$ 98,719,082	$ 24,601,067	$ 1,993,865
SOIRL Projects funded under Aid to Private Organizations (Property Owners & Non-Government Organizations)	$ 41,184,114	$ 11,476,239	$ 7,143,440
Contingency	$ 15,828,710	$ -	$ -
Reserves (for approved projects scheduled beyond this fiscal year)	$ 66,753,061	$ -	$ -
Total	**$ 418,335,124**	**$ 69,706,091**	**$ 21,836,354**

Save Our Indian River Lagoon Financial Tables – Fiscal Year 23/24 Quarter 4

*Projects Completed; ⁺ Project using contingency funds; FY=Fiscal Year; TBD = To Be Determined; WWTF = Wastewater Treatment Facility

Table 1. Public Education Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
58a	Expanded Fertilizer Education	Brevard County	$997,320	$443,895	$0	$0	$120,951	$49,477	$46,571	$35,834	$30,313	$95,886	$379,032
58b	Grass Clippings Campaign	Brevard County	$400,420	$100,000		$0	$20,000	$0	$6,638	$8,363	$0	$0	$35,000
58c	Septic System Maintenance Education	Brevard County	$530,028	$266,660		$0	$48,380	$49,245	$22,709	$11,497	$21,816	$60,235	$213,882
245	Irrigation Education Campaign	Brevard County	$324,360	$0							$0	$0	$0
246	Stormwater Best Management Practice Maintenance Education	Brevard County	$324,360	$0							$0	$0	$0
193	Oyster Gardening*	Brevard Zoo	$300,000	$300,000				$150,000	$150,000				$300,000
227	Restore Our Shores: Community Collaborative	Brevard Zoo	$1,124,521	$1,000,000						$100,000	$200,000	$200,000	$500,000
	Public Education Total		**$4,001,009**	**$2,110,555**	**$0**	**$0**	**$189,332**	**$248,722**	**$225,917**	**$155,694**	**$252,129**	**$356,121**	**$1,427,913**

Table 2. Wastewater Treatment Facility Upgrades for Reclaimed Water Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
234	South Brevard Water Reclamation Facility	Brevard County	$1,752,210	$0							$0	$0	$0
99	Cocoa Beach Water Reclamation Facility Upgrade*	Cocoa Beach	$945,000	$945,000			$0	$945,000					$945,000
59	City of Melbourne Grant Street Water Reclamation Facility	Melbourne	$9,128,125	$9,128,125			$0	$0	$0	$0	$0	$0	$0
2016-17	City of Palm Bay Water Reclamation Facility*	Palm Bay	$3,634,900	$3,634,900		$43,573	$101,679	$373,976	$2,581,471	$534,201			$3,634,900
216	City of Rockledge Flow Equalization Basin Project	Rockledge	$2,308,768	$2,308,768						$133,747	$692,024	$936,654	$1,762,425
2016-2a, 2016-2b	City of Titusville Osprey WWTF & Nutrient Removal Upgrade Phase 2*	Titusville	$8,219,826	$8,219,826		$90,586	$333,705	$528,975	$2,288,921	$4,222,228	$754,838		$8,219,254
138	Ray Bullard Water Reclamation Facility Biological Nutrient Removal Upgrades	West Melbourne	$5,784,232	$4,260,000				$0	$123,592	$81,455	$125,405	$108,261	$438,712
	WWTF Upgrades for Reclaimed Water Total		**$31,773,061**	**$28,496,619**		**$134,159**	**$435,384**	**$1,847,951**	**$4,993,985**	**$4,971,630**	**$1,572,267**	**$1,044,915**	**$15,000,291**

Table 3. Rapid Infiltration Basin/Sprayfield Upgrades Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
6	Long Point Park Upgrade*	Brevard County	$22,207	$22,207	$22,086	$120							$22,207
196	Sterling House Condominium Sprayfield	Property Owner	$71,461	$0						$0	$0	$0	$0

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
	Rapid Infiltration Basin/Sprayfield Upgrades Total		**$93,668**	**$22,207**	**$22,086**	**$120**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$22,207**

Table 4. Package Plant Connection Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
192	Oak Point Wastewater Treatment Facility Improvements*	Property Owner	$279,000	$279,000					$11,403	$140,316	$127,281		$279,000
237	Willow Lakes Recreational Vehicle Park	Property Owner	$1,152,750	$1,087,500							$0	$77,464	$77,464
239	The Cove at South Beaches Package Plant Connection	Property Owner	$128,790	$0							$0	$0	$0
249	Indian River Shores Trailer Park Wastewater Treatment Facility	Property Owner	$593,965	$0						$0	$0	$0	$0
	Package Plant Connection Total		**$2,154,505**	**$1,366,500**	**$0**	**$0**	**$0**	**$0**	**$11,403**	**$140,316**	**$127,281**	**$77,464**	**$356,464**

Table 5. Sewer Laterals Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
63a	Countywide Repair/Replacement	Brevard County	$849,504	$540,678		$0	$0	$4,228	$6,204	$14,560	$112,648	$107,000	$244,640
63b	Satellite Beach Lateral Smoke Testing	Brevard County	$283,168	$202,210		$0	$0	$0	$0	$202,210			$202,210
114	Barefoot Bay Lateral Smoke Testing*	Brevard County	$83,564	$83,564				$0	$0	$32,873			$32,873
115	South Beaches Lateral Smoke Testing*	Brevard County	$84,304	$84,304				$0	$0	$84,304			$84,304
116	Merritt Island Lateral Smoke Testing*	Brevard County	$246,630	$246,630				$0	$0	$246,630			$246,630
100	Osprey Basin Lateral Repair Project	Titusville	$278,621	$200,000			$0	$0	$0	$0	$0	$0	$0
	Sewer Laterals Total		**$1,825,791**	**$1,357,386**	**$0**	**$0**	**$0**	**$4,228**	**$6,204**	**$580,577**	**$112,648**	**$107,000**	**$810,657**

Table 6. Septic System Removal by Sewer Extension Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
2019-27	Sharpes - Zone A	Brevard County	$10,966,513	$534,082			$0	$0	$0	$151,472	$54,159	$132,509	$338,139
2019-29	South Banana - Zone B	Brevard County	$1,912,035	$132,960			$0	$0	$0	$45,214	$42,926	$38,307	$126,446
2016-35	South Beaches - Zone A	Brevard County	$2,340,144	$259,160	$0	$0	$0	$18,000	$0	$57,863	$3,884	$0	$79,747
2019-36	South Beaches - Zone O	Brevard County	$185,963	$18,800			$0	$0	$16,855	$1,388	$0	$0	$18,243
2019-37	South Beaches - Zone P	Brevard County	$418,416	$101,440			$0	$0	$65,931	$29,554	$0	$0	$95,485
50b	South Central - Zone C	Brevard County	$8,961,486	$6,600,000		$47,592	$142,218	$13,565	$109,557	$4,292,683	$470,892	$0	$5,076,507
3	Micco Sewer Line Extension (Phase I and II)	Brevard County	$2,239,500	$2,239,500	$22,620	$128,500	$20,115	$30,446	$39,290	$14,777	$1,344,841	$50,842	$1,651,430

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
47	Sykes Creek - Zone N	Brevard County	$4,988,485	$348,392	$0	$29,462	$32,911	$8,477	$131,852	$17,721	$57,820	$4,353	$282,596
48	Sykes Creek - Zone M	Brevard County	$3,221,730	$978,306	$0	$22,400	$53,600	$11,200	$9,586	$424,900	$289,538	$48,296	$859,520
49	Sykes Creek - Zone T	Brevard County	$6,020,586	$638,749	$0	$26,000	$97,500	$16,700	$4,564	$52,976	$246,550	$137,924	$582,214
136	Micco - Zone B	Brevard County	$10,069,652	$2,282,220				$0	$0	$701,489	$1,079,452	$53,341	$1,834,282
145	Merritt Island - Zone F	Brevard County	$1,493,581	$177,532				$0	$0	$57,533	$59,332	$51,710	$168,575
146	Merritt Island - Zone C	Brevard County	$2,145,325	$231,151				$0	$0	$58,112	$85,865	$84,159	$228,137
147	Sykes Creek - Zone R	Brevard County	$7,827,120	$750,365				$0	$0	$123,352	$212,253	$118,595	$454,200
148	North Merritt Island - Zone E	Brevard County	$5,104,711	$704,072				$0	$0	$194,429	$291,020	$50,787	$536,236
150	South Central - Zone D (Brevard County)	Brevard County	$6,482,821	$651,403				$0	$0	$105,591	$136,873	$270,127	$512,592
151	Merritt Island - Zone G	Brevard County	$11,784,164	$2,762,275				$0	$0	$458,819	$1,534,668	$178,195	$2,171,682
152	Sharpes - Zone B	Brevard County	$5,745,779	$399,796				$0	$0	$40,245	$108,175	$166,876	$315,296
153	Cocoa - Zone C	Brevard County	$3,960,150	$781,661				$0	$0	$83,346	$181,266	$286,436	$551,048
203	South Central - Zone A	Brevard County	$6,549,178	$707,437	$0	$0	$0	$0	$0	$30,715	$3,200	$350	$34,265
238	Kelly Park	Brevard County	$143,100	$0							$0	$0	$0
240	Rotary Park	Brevard County	$165,360	$0							$0	$0	$0
241	Manatee Cove	Brevard County	$38,160	$0							$0	$0	$0
242	Riverwalk	Brevard County	$6,360	$0							$0	$0	$0
2016-31/32	City of Cocoa - Zones J & K[+]	Cocoa	$7,261,193	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2020-34	South Central - Zone F/Pineapple Avenue	Melbourne	$2,371,024	$1,701,972			$0	$0	$0	$120,141	$81,020	$18,555	$219,715
4	Hoag Sewer Conversion	Melbourne	$112,285	$112,285	$0	$0	$13,520	$0	$12,575	$0	$0	$0	$26,095
5	Pennwood Sewer Conversion[+]	Melbourne	$93,400	$81,000	$0	$0	$17,074	$0	$0	$0	$0	$0	$17,074
61	Riverside Drive Septic-to-Sewer Conversion	Melbourne	$353,345	$353,345		$0	$0	$0	$0	$0	$0	$0	$0
62	Roxy Avenue Septic-to-Sewer Conversion	Melbourne	$119,934	$119,934		$0	$0	$0	$39,495	$0	$0	$10,896	$50,391
189	Avenida del Rio Septic to Sewer	Melbourne	$88,169	$0					$0	$0	$0	$0	$0
190	Bowers Septic to Sewer	Melbourne	$185,155	$0					$0	$0	$0	$0	$0
191	Kent and Villa Espana Septic to Sewer Conversion	Melbourne	$894,284	$710,000					$0	$73,665	$0	$29,635	$103,300
2	Merritt Island Septic Phase Out Project*[+]	Merritt Island Redevelopment Agency	$320,268	$320,268	$128,875	$0	$0	$134,517	$56,608				$320,000
2016-39	City of Palm Bay – Zone A	Palm Bay	$3,069,596	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2016-46	City of Palm Bay – Zone B	Palm Bay	$9,926,355	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2016-30	City of Rockledge	Rockledge	$597,973	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2019-40	Rockledge - Zone B	Rockledge	$7,438,505	$0			$0	$0	$0	$0	$0	$0	$0
1	Breeze Swept Septic to Sewer Connection*	Rockledge	$880,530	$880,530	$0	$880,530							$880,530
222	Hedgecock/Grabowsky & Desoto Fields	Satellite Beach	$121,500	$121,500						$0	$121,500		$121,500
2019-38	City of Titusville - Zone H	Titusville	$1,627,173	$0			$0	$0	$0	$0	$0	$0	$0
109	City of Titusville - Zones A-G	Titusville	$1,435,136	$943,110	$0	$0	$0	$0	$86,860	$57,177	$44,561	$2,362	$190,960
60	Sylvan Estates Septic-to-Sewer Conversion*	West Melbourne	$1,561,215	$1,561,215		$19,116	$86,928	$658,513	$796,657				$1,561,215

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
224	Lake Ashley Circle	West Melbourne	$1,914,614	$1,704,000						$34,388	$95,833	$0	$130,220
225	Dundee Circle and Manor Place	West Melbourne	$2,526,415	$2,248,500						$0	$59,172	$0	$59,172
	Septic System Removal by Sewer Extension Total		**$145,668,388**	**$32,156,960**	**$151,495**	**$1,153,600**	**$463,866**	**$891,419**	**$1,369,831**	**$7,227,547**	**$6,604,799**	**$1,734,256**	**$19,596,812**

Table 7. Septic System Removal by Sewer Connection Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
2016-16	Banana Septic System 144 Quick Connections	Property Owners	$2,639,710	$93,094			$0	$0	$18,407	$0	$14,688	$21,000	$54,094
2016-18	North IRL Septic System 463 Quick Connections	Property Owners	$8,119,168	$810,000			$0	$0	$534,000	$60,663	$78,264	$66,680	$739,607
2016-19	Central IRL Septic System 269 Quick Connections	Property Owners	$5,125,028	$2,596,570			$0	$0	$0	$11,880	$416,525	$1,597,556	$2,025,961
	Septic System Removal by Sewer Connection Total		**$15,883,906**	**$3,499,664**	**$0**	**$0**	**$0**	**$0**	**$552,407**	**$72,543**	**$509,477**	**$1,685,235**	**$2,819,662**

Table 8. Septic System Upgrades Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
51	Banana River Lagoon 100 Septic System Upgrades	Private Citizens	$2,122,244	$463,787	$0	$0	$0	$0	$0	$54,384	$102,258	$199,515	$356,158
52	North IRL 586 Septic System Upgrades	Private Citizens	$12,447,196	$1,256,293	$0	$0	$0	$176,100	$90,000	$163,855	$383,585	$388,885	$1,202,424
53	Central IRL 939 Septic System Upgrades	Private Citizens	$20,462,273	$3,042,531	$0	$0	$0	$34,485	$427,428	$298,087	$835,256	$1,188,189	$2,783,444
	Septic System Upgrades Total		**$35,031,713**	**$4,762,611**	**$0**	**$0**	**$0**	**$210,585**	**$517,428**	**$516,326**	**$1,321,099**	**$1,776,588**	**$4,342,026**

Table 9. Stormwater Projects Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
2016-41	Banana River Lagoon 102 Basin Projects	Brevard County	$25,906,058	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2016-42	North IRL 94 Basin Projects	Brevard County	$42,723,316	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
18	Denitrification Retrofit of Johns Road Pond*	Brevard County	$105,512	$105,512	$0	$17,173	$6,320	$3,738	$0	$78,282			$105,512
22	Kingsmill-Aurora Phase Two	Brevard County	$479,634	$367,488	$0	$0	$0	$0	$0	$0	$0	$0	$0
23	Denitrification Retrofit of Huntington Pond	Brevard County	$136,677	$104,720	$0	$9,074	$0	$0	$0	$0	$0	$0	$9,074
24	Denitrification Retrofit of Flounder Creek Pond	Brevard County	$98,316	$75,328	$0	$19,923	$0	$0	$0	$0	$0	$0	$19,923
85	Basin 1304 Bioreactor*	Brevard County	$83,029	$83,029			$0	$0	$83,029				$83,029

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
87	Basin 2134 Fleming Grant Biosorption Activated Media*	Brevard County	$56,588	$56,588			$0	$56,588					$56,588
89	Basin 1298 Bioreactor*	Brevard County	$85,829	$86,198			$0	$0	$85,829				$85,829
90	Basin 51 Johns Road Pond Biosorption Activated Media*	Brevard County	$23,030	$23,030			$0	$0	$23,030				$23,030
91	Basin 100 Burkholm Road Biosorption Activated Media*	Brevard County	$64,390	$64,390			$0	$0	$64,390				$64,390
92	Basin 115 Carter Road Biosorption Activated Media*	Brevard County	$62,510	$62,510			$0	$62,510					$62,510
93	Basin 193 Wiley Avenue Biosorption Activated Media*	Brevard County	$82,735	$82,735			$0	$0	$82,735				$82,735
94	Basin 832 Broadway Pond Biosorption Activated Media*	Brevard County	$42,864	$42,864			$0	$42,864					$42,864
117	Basin 10 County Line Road Woodchip Bioreactor*	Brevard County	$72,773	$72,773				$72,773					$72,773
118	Basin 26 Sunset Road Serenity Park Woodchip Bioreactor*	Brevard County	$73,810	$73,810				$0	$0	$73,810			$73,810
119	Basin 141 Irwin Avenue Woodchip Bioreactor*	Brevard County	$69,174	$69,174				$0	$69,174				$69,174
121	Basin 2258 Babcock Road Woodchip Bioreactor	Brevard County	$68,166	$50,203				$0	$0	$0	$0	$0	$0
122	Basin 22 Huntington Road Woodchip Bioreactor*	Brevard County	$40,077	$40,077				$0	$40,077				$40,077
205	Basin 998 Hampton Homes	Brevard County	$67,435	$63,618						$0	$0	$0	$0
206	Basin 1066 Angel Ave	Brevard County	$246,132	$232,200						$0	$0	$0	$0
207	Basin 1124 Elliot Drive Canal	Brevard County	$156,986	$148,100						$0	$0	$0	$0
213	Johnson Junior High Denitrification Media Chamber Modification*	Brevard County	$40,815	$40,815						$40,815			$40,815
215	Basin 960 Pioneer Road Denitrification	Brevard County	$43,652	$38,850						$0	$0	$0	$0
220	Basin 1398 Sand Dollar Canal Bioreactor	Brevard County	$222,500	$198,024						$0	$0	$0	$0
247	Basin 998 Richland Avenue Canal	Brevard County	$138,629	$130,782							$0	$0	$0
248	Basin 116 Lionel Road (Withdrawn)	Brevard County	$196,842	$0							$0	$0	$0
250	Basin 1280B Flamingo Road Denitrification	Brevard County	$75,944	$71,645						$0	$0	$8,170	$8,170
251	Basin 1304B West Arlington Road Denitrification	Brevard County	$102,211	$96,425						$0	$1,225	$0	$1,225
252	Basin 89 Scottsmoor I Aurantia Road Denitrification*	Brevard County	$152,573	$152,573						$63,982	$88,591		$152,573
13	Central Boulevard Baffle Box*	Cape Canaveral	$34,700	$34,700	$0	$34,700							$34,700
14	Church Street Type II Baffle Box*	Cocoa	$88,045	$88,045	$0	$0	$20,856	$67,189					$88,045
124	Floating Wetlands to Existing Stormwater Ponds*	Cocoa	$1,497	$1,497				$0	$1,497				$1,497

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
129	Forrest Avenue 72-inch Outfall Baseflow Capture/Treatment	Cocoa	$18,949	$18,949				$0	$0	$0	$0	$0	$0
177	North and South Lakemont Ponds Floating Wetlands*	Cocoa	$13,054	$13,054					$0	$13,054			$13,054
231	North Fiske Stormwater Pond Floating Wetlands*	Cocoa	$50,000	$50,000							$50,000		$50,000
64	Stormwater Low Impact Development Convair Cove 1 – Blakey Boulevard*	Cocoa Beach	$4,650	$4,650		$0	$0	$0	$0	$4,650			$4,650
65	Stormwater Low Impact Development Convair Cove 2 – Dempsey Drive*	Cocoa Beach	$4,495	$4,495		$0	$0	$0	$0	$4,495			$4,495
219	McNabb Outfall Bioretention	Cocoa Beach	$21,824	$21,824						$0	$0	$0	$0
254	Maritime Hammock Preserve Floating Vegetative Islands	Cocoa Beach	$8,500	$0								$0	$0
258	Golf Course Floating Vegetative Islands	Cocoa Beach	$36,810	$0								$0	
259	Ramp Road Park - Stormwater Improvements	Cocoa Beach	$16,796	$0								$0	
127	Basin 5 Dry Retention*	Indialantic	$16,680	$16,680				$0	$16,680				$16,680
16	Gleason Park Reuse*	Indian Harbour Beach	$4,224	$4,224	$0	$4,224							$4,224
66	Big Muddy at Cynthia Baffle Box*	Indian Harbour Beach	$59,631	$59,631		$0	$0	$9,388	$50,243				$59,631
34	Cliff Creek Baffle Box*	Melbourne	$347,781	$347,781	$0	$0	$0	$347,781					$347,781
35	Thrush Drive Baffle Box*	Melbourne	$322,200	$322,200	$0	$0	$0	$0	$322,200				$322,200
67	Grant Place Baffle Box*	Melbourne	$82,481	$82,481		$0	$0	$0	$0	$72,590	$9,891		$82,481
69	Apollo/GA Baffle Box	Melbourne	$401,184	$0		$0	$0	$0	$0	$0	$0	$0	$0
95	Cherry Street Baffle Box (Withdrawn)	Melbourne	$427,321	$427,321			$0	$0	$0	$0	$0	$0	$0
96	Spring Creek Baffle Box	Melbourne	$460,896	$330,841			$0	$0	$0	$0	$0	$0	$0
88	Espanola Baffle Box	Melbourne	$146,535	$0			$0	$0	$0	$0	$0	$0	$0
169	Sherwood Park Stormwater Quality Project+*	Melbourne	$392,108	$392,108					$292,400				$292,400
175/176	High School & Funeral Home Baffle Box*	Melbourne	$203,008	$203,008					$0	$0	$0	$203,008	$203,008
257	Riverview Park Baffle Box	Melbourne	$308,091	$0								$0	
15	Bayfront Stormwater Project*	Palm Bay	$30,624	$30,624	$0	$30,624							$30,624
235	Woodland Business Center Stormwater Retention	Property Owner	$5,200	$5,200							$0	$0	$0
128	Jackson Court Stormwater Treatment Facility*	Satellite Beach	$8,266	$8,266				$0	$0	$8,266			$8,266
179	Lori Laine Basin Pipe Improvement Project*	Satellite Beach	$17,525	$17,525					$0	$0	$17,525		$17,525
68	Crane Creek/M-1 Canal Flow Restoration	St. Johns Water Management District	$2,742,609	$2,033,944		$0	$65,949	$34,051	$0	$0	$0	$0	$100,000

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
256	C-10 Water Management Area	St. Johns Water Management District	$10,460,100	$0								$0	$0
19	St. Teresa Basin Treatment*	Titusville	$272,800	$272,800	$0	$0	$0	$272,800					$272,800
20	South Street Basin Treatment*	Titusville	$86,856	$86,856	$0	$0	$0	$86,856					$86,856
21	La Paloma Basin Treatment*	Titusville	$208,296	$208,296	$0	$0	$0	$208,296					$208,296
97	Titusville High School Baffle Box*	Titusville	$111,813	$111,813			$0	$0	$0	$111,813			$111,813
98	Coleman Pond Managed Aquatic Plant System*	Titusville	$11,438	$35,000			$0	$11,438					$11,438
110	Osprey Plant Pond Managed Aquatic Plant Systems*	Titusville	$37,500	$37,500				$0	$37,500				$37,500
120	Draa Field Pond Managed Aquatic Plant Systems*	Titusville	$31,281	$31,281				$0	$31,281				$31,281
174	St. Johns 2 Baffle Box*	Titusville	$243,070	$243,070					$0	$0	$243,070		$243,070
178	Marina B Managed Aquatic Plant Systems*	Titusville	$6,670	$6,670					$6,670				$6,670
214	Sand Point Park Baffle Box*	Titusville	$154,085	$52,200						$0	$0	$52,155	$52,155
232	Riverfront Center Nutrient Removing Filtrations Boxes+*	Titusville	$224,992	$212,257							$0	$212,257	$212,257
233	Commons and City Hall Tree Boxes	Titusville	$26,542	$25,040							$0	$0	$0
255	Hamilton Ave Baffle Box (Withdrawn)	Titusville	$350,000	$0								$0	$0
123	Ray Bullard Water Reclamation Facility Stormwater Management Area*	West Melbourne	$111,847	$111,847					$52,368	$59,479			$111,847
	Stormwater Projects Total		**$90,331,181**	**$8,587,139**	**$0**	**$115,717**	**$93,125**	**$1,276,271**	**$1,259,102**	**$531,236**	**$410,301**	**$475,590**	**$4,161,342**

Table 10. Vegetation Harvesting Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
112	County Wide Stormwater Pond Harvesting*	Brevard County	$14,000	$14,000				$0	$14,000				$14,000
172	Horseshoe Pond Vegetative Harvesting*	Brevard County	$8,140	$8,140					$0	$0	$8,140		$8,140
209	Basin 1398 Sand Dollar Canal Harvesting	Brevard County	$24,420	$24,420						$0	$0	$0	$0
210	Basin 958 Pioneer Road Vegetation Harvesting	Brevard County	$44,865	$39,930						$0	$0	$0	$0
228	Unincorporated Countywide Vegetation Harvesting*	Brevard County	$477,000	$477,000							$0	$477,000	$477,000
173	North and South Lakemont Ponds Vegetation Harvesting (Withdrawn)	Cocoa	$2,494	$0					$0	$0	$0	$0	$0
208	Maritime Hammock Preserve Stormwater Pond Vegetation Harvesting+*	Cocoa Beach	$14,480	$14,480						$0	$7,700		$7,700
211	Cocoa Beach Golf Course Stormwater Pond Harvesting	Cocoa Beach	$641,638	$592,350						$0	$0	$0	$0

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
171	Mechanical Aquatic Vegetation Harvesting*	Melbourne Tillman Water Control District	$1,011,976	$1,011,976					$0	$395,227	$616,749		$1,011,976
111	Draa Field Vegetation Harvesting*	Titusville	$86,413	$86,413				$0	$0	$50,000			$50,000
	Vegetation Harvesting Total		**$2,325,426**	**$2,268,709**	**$0**	**$0**	**$0**	**$0**	**$14,000**	**$445,227**	**$632,589**	**$477,000**	**$1,568,816**

Table 11. Muck Removal & Interstitial Treatment Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
2016-3a & b	Muck Re-dredging in Turkey Creek & Interstitial Treatment*	Brevard County	$137,329	$215,000		$136,603	$726						$137,329
2016-04a & b	Rockledge A Muck & Interstitial Treatment	Brevard County	$5,985,040	$175,340			$9,949	$116,417	$16,965	$0	$0	$0	$143,331
2016-05a & b	Pineda Banana River Lagoon & Interstitial Treatment	Brevard County	$9,336,662	$81,214						$0	$0	$73,891	$73,891
2016-06a & b	Titusville Railroad West & Interstitial Treatment	Brevard County	$4,309,228	$146,361			$24,209	$91,146	$27,752	$0	$0	$0	$143,107
2016-07a & b	National Aeronautics and Space Administration Causeway East & Interstitial Treatment	Brevard County	$13,645,890	$209,255			$41,009	$137,935	$3,115	$0	$0	$0	$182,059
2016-08a &b	Titusville Railroad East & Interstitial Treatment	Brevard County	$5,506,238	$318,457		$62,449	$29,410	$53,221	$123,419	$0	$0	$0	$268,499
2016-10a & b	Canaveral South & Interstitial Treatment	Brevard County	$20,109,734	$317,158					$0	$69,384	$132,188	$121,955	$323,527
2016-11a & b	Patrick Air Force Base & Interstitial Treatment	Brevard County	$9,815,466	$126,719						$0	$0	$104,462	$104,462
40	Mims Muck Removal Outflow Water Nutrient Removal*	Brevard County	$0	$0	$0								$0
41a & b	Grand Canal Muck & Interstitial Treatment	Brevard County	$23,736,663	$23,736,663			$1,060,449	$793,450	$1,984,733	$961,395	$257,677	$300,338	$5,358,042
42a & b	Sykes Creek Muck & Interstitial Treatment	Brevard County	$20,822,824	$13,517,914			$6,900	$1,064,428	$30,780	$278,959	$2,083,784	$1,025,588	$4,490,439
54a & b	Eau Gallie Northeast Muck & Interstitial Treatment	Brevard County	$11,970,079	$330,709		$62,449	$0	$0	$0	$0	$0	$111,770	$174,219
71	Merritt Island Muck Removal – Phase 1	Brevard County	$10,428,024	$0			$0	$0	$0	$0	$0	$0	$0
260 & 261	Mims Rim Ditch Muck Removal & Interstitial Treatment	Brevard County	$11,861,549	$0								$0	$0
70a	Cocoa Beach Muck Dredging – Phase III*	Cocoa Beach	$1,376,305	$1,376,305		$359,660	$708,458	$308,187					$1,376,305
101	Cocoa Beach Muck Dredging Phase II-B*	Cocoa Beach	$5,911,150	$5,911,150			$339,340	$2,320,973	$1,634,477	$1,616,360			$5,911,150
168a & b	Cocoa Beach Golf Muck & Interstitial Treatment	Cocoa Beach	$29,103,198	$29,103,198				$0	$402,766	$679,420	$149,043	$145,186	$1,376,415

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
72a & b	Muck Removal of Indian Harbour Beach Canals & Interstitial Treatment	Indian Harbour Beach	$12,291,402	$9,115,415				$0	$0	$0	$0	$0	$0
223	Spring Creek Dredging	Melbourne	$89,978	$80,080						$0	$0	$0	$0
236	Sunnyland Canals Muck Removal	Property Owners	$5,528,536	$0							$0	$0	$0
262	Shore View Lane Dredging	Property Owners	$44,918	$0								$0	$0
144 & 113	Satellite Beach Muck Dredging & Interstitial Treatment	Satellite Beach	$6,710,226	$4,941,981				$0	$0	$0	$0	$0	$0
	Muck Removal & Interstitial Treatment Total		**$208,720,439**	**$89,702,919**	**$0**	**$621,162**	**$2,220,451**	**$4,885,757**	**$4,224,007**	**$3,605,518**	**$2,622,691**	**$1,883,189**	**$20,062,776**

Table 12. Oyster Bars Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
2016-55	Banana River Lagoon County Oyster Bars	Brevard County	$2,153,550	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2016-56	North IRL County Oyster Bars	Brevard County	$4,325,876	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2016-57	Central IRL County Oyster Bars	Brevard County	$700,399	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
73	RiverView Senior Resort Oyster Bar*	Brevard County	$30,304	$30,304		$30,304							$30,304
226	Hog Point Offshore Oyster Bar*	Brevard County	$64,755	$64,755						$0	$0	$21,023	$21,023
75	Marina Isles Oyster Bar*	Brevard Zoo	$26,700	$26,700		$0	$0	$26,700					$26,700
76	Bettinger Oyster Bar*	Brevard Zoo	$10,680	$10,680		$0	$10,680						$10,680
79	Gitlin Oyster Bar*	Brevard Zoo	$16,020	$16,020		$0	$16,020						$16,020
80	Coconut Point/Environmentally Endangered Lands Oyster Bar*	Brevard Zoo	$45,120	$45,120		$0	$0	$45,120					$45,120
81	Wexford Oyster Bar*	Brevard Zoo	$31,150	$31,150		$0	$0	$0	$31,150				$31,150
83	Bomalaski Oyster Bar*	Brevard Zoo	$8,900	$8,900		$8,900							$8,900
104	Brevard Zoo Banana River Oyster Project	Brevard Zoo	$812,207	$812,207			$0	$0	$19,424	$21,388	$0	$0	$40,812
105	Brevard Zoo Central IRL Oyster Project*	Brevard Zoo	$161,160	$161,160			$68,329	$61,236	$20,459	$11,136			$161,160
106	Brevard Zoo North IRL Oyster Project*	Brevard Zoo	$475,438	$475,438			$0	$164,994	$4,194	$6,946	$18,396	$280,908	$475,438
139	Brevard Zoo North IRL Oyster Project 2	Brevard Zoo	$456,764	$456,764				$0	$45,913	$1,626	$0	$57,517	$105,056
140	Brevard Zoo Central IRL Oyster Project 2	Brevard Zoo	$367,692	$367,692				$34,969	$15,653	$38,742	$0	$0	$89,364
141	Brevard Zoo Banana River Oyster Project 2	Brevard Zoo	$359,546	$0				$0	$0	$0	$0	$0	$0
142	Brevard Zoo Oyster Reef Adjustments North IRL	Brevard Zoo	$36,932	$0				$0	$0	$0	$0	$0	$0
143	Brevard Zoo Oyster Reef Adjustments Banana River	Brevard Zoo	$17,380	$0				$0	$0	$0	$0	$0	$0

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
184	Brevard Zoo North Indian River Lagoon Oyster Project 3	Brevard Zoo	$528,046	$528,046					$38,943	$17,787	$0	$0	$56,730
185	Brevard Zoo Central Indian River Lagoon Tributary Pilot Oyster Project	Brevard Zoo	$290,525	$290,525					$0	$0	$0	$0	$0
186	Brevard Zoo North Indian River Lagoon Individual Oyster Project	Brevard Zoo	$218,019	$0					$0	$0	$0	$0	$0
187	Brevard Zoo Central Indian River Lagoon Oyster Project 3	Brevard Zoo	$109,009	$0					$0	$0	$0	$0	$0
188	Brevard Zoo Banana River Oyster Project 3	Brevard Zoo	$77,084	$0					$0	$0	$0	$0	$0
217	Brevard Zoo Central Indian River Lagoon Oyster Project 4	Brevard Zoo	$155,232	$155,232						$0	$0	$0	$0
218	Central Oyster Project Offshore Reefs	Brevard Zoo	$401,462	$401,462						$0	$0	$0	$0
78a	McNabb Park Oyster Bar*	Cocoa Beach	$9,134	$9,134		$0	$0	$0	$0	$9,096	$38		$9,134
82a	Riverview Park Oyster Bar (Withdrawn)	Melbourne	$146,695	$0		$0	$0	$0	$0	$0	$0	$0	$0
	Oyster Bars Total		**$12,035,779**	**$3,891,288**	**$0**	**$39,204**	**$95,029**	**$333,018**	**$175,735**	**$106,722**	**$18,434**	**$359,448**	**$1,127,589**

Table 13. Planted Shorelines Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
212	Titusville Causeway Multi-Trophic Restoration & Living Shoreline	Brevard County	$35,326	$35,326						$0	$0	$0	$0
103	Brevard Zoo North IRL Plant Project*	Brevard Zoo	$720	$720			$0	$720					$720
130	Brevard Zoo North IRL Plant Project 2*	Brevard Zoo	$9,840	$9,840				$0	$9,840				$9,840
78b	McNabb Park Planted Shoreline	Cocoa Beach	$1,680	$1,680		$0	$0	$0	$0	$0	$0	$1,680	$1,680
77a	Cocoa Beach Country Club Planted Shoreline*+	Marine Resources Council	$16,080	$16,080		$16,014							$16,014
77b	Lagoon House Shoreline Restoration Planting*+	Marine Resources Council	$24,000	$24,000		$23,961							$23,961
133	Fisherman's Landing*	Marine Resources Council	$4,800	$4,800				$4,800					$4,800
135	Rotary Park*	Marine Resources Council	$4,800	$4,800				$4,800					$4,800
180	Scottsmoor Impoundment	Marine Resources Council	$13,301	$0					$0	$0	$0	$0	$0
181	Riveredge*	Marine Resources Council	$4,080	$4,080					$0	$4,080			$4,080
82b	Riverview Park Planted Shoreline (Withdrawn)	Melbourne	$24,919	$0		$0	$0	$0	$0	$0	$0	$0	$0
	Planted Shorelines Total		**$139,546**	**$101,326**	**$0**	**$39,975**	**$0**	**$10,320**	**$9,840**	**$4,080**	**$0**	**$1,680**	**$65,895**

Table 14. Clam Restoration Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
194	Aquaculture Stimulus Program	Private Citizens	$75,573	$42,000					$0	$6,000	$18,000	$12,000	$36,000
	Clam Restoration Total		**$75,573**	**$42,000**	**$0**	**$0**	**$0**	**$0**	**$0**	**$6,000**	**$18,000**	**$12,000**	**$36,000**

Table 15. Monitoring & Respond Projects Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
	Living Shoreline Monitoring	Brevard County		$513,505	$0	$15,529	$66,352	$86,116	$112,554	$78,170	$62,725	$21,621	$443,068
	Groundwater/Water Quality Monitoring	Brevard County		$2,513,044	$0	$92,346	$119,031	$350,621	$345,421	$404,910	$418,751	$451,603	$2,135,532
	Stormwater Monitoring	Brevard County		$68,152	$0	$0	$256	$40,500	$0	$0	$4,128	$3,284	$48,370
	Sewer/Septic Monitoring	Brevard County		$754,424	$0	$31,313	$124,010	$112,990	$82,267	$139,617	$40,546	$110,471	$634,645
	Muck Dredging Monitoring	Brevard County		$1,085,231	$0	$10,408	$38,997	$251,013	$35,690	$238,688	$70,658	$197,484	$682,953
	Plan Updates	Brevard County		$237,937	$17,105	$20,682	$23,067	$16,779	$18,183	$26,324	$22,665	$19,821	$164,626
	Monitoring & Respond Projects Total		**$10,000,000**	**$5,172,293**	**$17,105**	**$170,279**	**$371,712**	**$858,018**	**$594,114**	**$887,709**	**$619,473**	**$804,284**	**$4,109,194**

Table 16. Contingency Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
77a	Cocoa Beach Country Club Planted Shoreline*+	Marine Resources Council		$66		$66							$66
77b	Lagoon House Shoreline Restoration Planting*+	Marine Resources Council		$39		$39							$39
169	Sherwood Park Stormwater Quality Project+	Melbourne		$99,708				$0	$52,961	$46,747			$99,708
2	Merritt Island Septic Phase Out Project*+	Merritt Island Redevelopment Agency		$268					$268				$268
5	Pennwood Sewer Conversion+	Melbourne		$40,368					$0	$0	$0	$0	$0
41a & b	Grand Canal Muck & Interstitial Treatment	Brevard County		$217,053					$0	$0	$0	$0	$0
111	Draa Field Vegetation Harvesting+*	Titusville		$36,413						$36,413			$36,413
232	Riverfront Center Nutrient Removing Filtrations Boxes+	Titusville		$30,146								$0	$0
2016-31/32	City of Cocoa - Zones J & K	Cocoa		$545,373									$0
208	Maritime Hammock Preserve Stormwater Pond Vegetation Harvesting+*	Cocoa Beach		$6,780							$6,780		$6,780
	Contingency Projects Total		**$25,654,341**	**$976,214**	**$0**	**$105**	**$0**	**$0**	**$53,229**	**$83,160**	**$6,780**	**$0**	**$143,274**

Table 17. Projects Total Financial Table

Project Number	Project	Responsible Entity	Save Our Lagoon Funds (Inflated)	Save Our Lagoon Funds Contracted	FY 2017 Actuals Year 0*	FY 2018 Actuals Year 1*	FY 2019 Actuals Year 2*	FY 2020 Actuals Year 3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6*	FY 2024 Actuals Year 7	Cumulative Actuals
-	***Total***		***$585,714,326***	***$183,538,176***	***$190,686***	***$2,274,320***	***$3,868,900***	***$10,566,289***	***$14,007,202***	***$19,334,286***	***$14,827,966***	***$10,794,770***	***$75,650,919***

Save Our Indian River Lagoon Grant Financial Tables – Fiscal Year 23/24 Quarter 4

Table 1. Federal Grants Financial Table

SOIRL Project Number	Contract Management Number	Grant Number	Grant & Corresponding Project Titles	Grant Amount	Grantor	FY 2017-2020 Actuals Year 0-3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6	FY 2024 Actuals Year 7	Cumulative Actual Expenditures
	7682	**WG074**	**Brevard County 100 Quick Connections to Sewer**	**$900,000**	**Florida Department of Environmental Protection**						
2016-16			Banana Septic System 144 Quick Connections					$0	$0	$9,000	**$9,000**
2016-19			Central IRL Septic System 269 Quick Connections					$0	$72,000	$813,000	**$885,000**
2016-18			North IRL Septic System 463 Quick Connections					$0	$0	$6,000	**$6,000**
	9850	**WG052**	**South Central Zone C Septic-to-Sewer**	**$3,704,000**	**Florida Department of Environmental Protection**						
2016-50			South Central - Zone C					$0	$1,355,986	$2,348,014	**$3,704,000**
	10211	**WG054**	**Sykes Creek Zone M Septic-to-Sewer**	**$1,868,000**	**Florida Department of Environmental Protection**						
48			Sykes Creek - Zone M						$0	$0	**$0**
	10265	**WG055**	**Sykes Creek Zone N Septic-to-Sewer**	**$2,603,016**	**Florida Department of Environmental Protection**						
47			Sykes Creek - Zone N						$0	$0	**$0**
	10281	**WG072**	**Micco Sewer Line Extension Project**	**$2,239,500**	**Florida Department of Environmental Protection**						
3			Micco Sewer Line Sewer Line Extension (Phase I and II)						$223,908	$408,972	**$632,880**
	10404	**22FRP96**	**Brevard County Restoring Seagrass and Oyster Habitat**	**$250,000**	**Florida Department of Environmental Protection**						
			Restoring Seagrass for Improved Natural Resilience							$2,283	**$2,283**
				Federal Grants Total	**$11,564,516**						

Table 2. State Grants Financial Table

SOIRL Project Number	Contract Management Number	Grant Number	Grant & Corresponding Project Titles	Grant Amount	Grantor	FY 2017-2020 Actuals Year 0-3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6	FY 2024 Actuals Year 7	Cumulative Actual Expenditures
	10523	**INV43**	**Ultrasonic Algae Treatment**	**$199,500**	**Florida Department of Environmental Protection**						
			Ultrasonic Algae Treatment Performance Testing in Brackish Sykes Creek Canal							$12,255	**$12,255**
	10807	**IRL2024-08**	**Citizen Science Stormwater Pond Monitoring & Maintenance Pilot Program**	**$33,250**	**Indian River Lagoon Council**						
246			Stormwater Best Management Practice Maintenance Education							$0	**$0**

SOIRL Project Number	Contract Management Number	Grant Number	Grant & Corresponding Project Titles	Grant Amount	Grantor	FY 2017-2020 Actuals Year 0-3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6	FY 2024 Actuals Year 7	Cumulative Actual Expenditures
	6414	**LPA0144**	**50 Septic Upgrades to Advanced Treatment Systems**	**$1,350,000**	**Florida Department of Environmental Protection**						
51			Banana Septic Upgrades 100 Upgrades				$0	$48,384	$23,616	$34,402	**$106,402**
53			Central IRL 939 Septic System Upgrades				$25,193	$161,457	$267,330	$136,706	**$590,686**
52			North IRL 586 Septic System Upgrades				$18,000	$127,855	$183,210	$97,580	**$426,644**
	10669	**LG001**	**Indian River Lagoon 100 Septic Upgrades**	**$900,000**	**Florida Department of Environmental Protection**						
51			Banana Septic Upgrades 100 Upgrades							$36,000	**$36,000**
53			Central IRL 939 Septic System Upgrades							$0	**$0**
52			North IRL 586 Septic System Upgrades							$18,000	**$18,000**
	6413	**LPA0145**	**65 Quick Connects to Sewer**	**$585,000**	**Florida Department of Environmental Protection**						
2016-16			Banana Septic System 144 Quick Connections				$0	$13,540	$14,688	$0	**$28,227**
2016-19			Central IRL Septic System 269 Quick Connections				$0	$11,880	$344,525	$104,094	**$460,500**
2016-18			North IRL Septic System 463 Quick Connections				$0	$42,663	$35,610	$18,000	**$96,273**
	7682	**WG074**	**Brevard County 100 Quick Connections to Sewer - Amendment 1**	**$450,000**	**Florida Department of Environmental Protection**						
2016-16			Banana Septic System 144 Quick Connections					$0	$0	$9,000	**$9,000**
2016-19			Central IRL Septic System 269 Quick Connections					$0	$0	$435,000	**$435,000**
2016-18			North IRL Septic System 463 Quick Connections					$0	$0	$6,000	**$6,000**
	10668	**LG002**	**Indian River Lagoon 200 Quick Connects to Sewer**	**$1,800,000**	**Florida Department of Environmental Protection**						
2016-16			Banana Septic System 144 Quick Connections							$0	**$0**
2016-19			Central IRL Septic System 269 Quick Connections							$111,000	**$111,000**
2016-18			North IRL Septic System 463 Quick Connections							$35,680	**$35,680**
	6412	**LPA0146**	**Indian River Lagoon FL-518 Bridge Muck Removal**	**$2,500,000**	**Florida Department of Environmental Protection**						
54a & b			Eau Gallie NE Muck & Interstitial Treatment				$0	$0	$0	$0	**$0**
	10415	**LPA0474**	**Eau Gallie NE Construction Environmental Dredging and Interstitial Water Treatment**	**$5,010,244**	**Florida Department of Environmental Protection**						
54a & b			Eau Gallie NE Muck & Interstitial Treatment							$0	**$0**
	10422	**LPA0475**	**Grand Canal Phase 5 Environmental Dredging and Interstitial Water Treatment**	**$9,000,000**	**Florida Department of Environmental Protection**						
41a & b			Grand Canal Muck & Interstitial Treatment							$4,815,630	**$4,815,630**
	10416	**LPA0478**	**Sykes Creek Phase 2 Environmental Dredging and Interstitial Water Treatment**	**$4,324,002**	**Florida Department of Environmental Protection**						
42a & b			Sykes Creek Muck & Interstitial Treatment							$0	**$0**
	10812	**LG003**	**Grand Canal Muck Dredging Project Phase 6**	**$10,053,228**	**Florida Department of Environmental Protection**						
41a & b			Grand Canal Muck & Interstitial Treatment							$0	**$0**

SOIRL Project Number	Contract Management Number	Grant Number	Grant & Corresponding Project Titles	Grant Amount	Grantor	FY 2017-2020 Actuals Year 0-3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6	FY 2024 Actuals Year 7	Cumulative Actual Expenditures
	6402	**LPA0093**	**Water Quality Improvements**	**$2,200,000**	**Florida Department of Environmental Protection**						
53			Central IRL 939 Septic System Upgrades	$115,000			$0	$0	$0	$60,000	**$60,000**
114			Barefoot Bay Lateral Smoke Testing	$130,000			$0	$47,643	$2,086	$74	**$49,803**
115			South Beaches Lateral Smoke Testing	$250,000			$0	$107,993	$4,948	$0	**$112,941**
3			Micco Sewer Line Extension (Phase I and II)	$980,930			$0	$0	$818,930	$0	**$818,930**
2016-36			South Beaches - Zone O	$103,455			$0	$0	$0	$0	**$0**
2016-37			South Beaches - Zone P	$120,615			$0	$0	$0	$0	**$0**
			Algae Scrubbing	$500,000			$0	$0	$0	$0	**$0**
	4655	**LPA0056**	**Septic to Sewer Conversion for 1,019 Homes**	**$1,500,000**	**Florida Department of Environmental Protection**						
3			Micco Sewer Line Extension (Phase I and II)			$0	$0	$0	$164,384	$0	**$164,384**
2016-50			South Central - Zone C			$0	$0	$0	$0	$0	**$0**
	4638	**NS058**	**TMDL Grant - Sykes Creek Zone M - Connections**	**$423,936**	**Florida Department of Environmental Protection**						
48			Sykes Creek - Zone M			$0	$0	$0	$0	$0	**$0**
	4637	**NS059**	**TMDL Grant - Sykes Creek Zone T - Connections**	**$7,071,936**	**Florida Department of Environmental Protection**						
49			Sykes Creek - Zone T			$0	$0	$0	$0	$0	**$0**
	5224	**IRL2019-09**	**Micco Sewer Line Extension**	**$111,600**	**Indian River Lagoon Council**						
3			Micco Sewer Line Extension (Phase I and II)			$0	$0	$0	$0	$0	**$0**
	9848	**WG004**	**Merritt Island Zone C Septic to Sewer**	**$2,620,000**	**Florida Department of Environmental Protection**						
146			Merritt Island - Zone C						$0	$0	**$0**
	9849	**WG005**	**Merritt Island Zone F Septic to Sewer**	**$900,000**	**Florida Department of Environmental Protection**						
145			Merritt Island - Zone F						$0	$0	**$0**
	10263	**WG006**	**Merritt Island Zone G Septic to Sewer**	**$9,383,000**	**Florida Department of Environmental Protection**						
151			Merritt Island - Zone G						$0	$0	**$0**
	10264	**WG012**	**Sykes Creek Zone R Septic to Sewer**	**$1,500,000**	**Florida Department of Environmental Protection**						
147			Sykes Creek - Zone R						$0	$0	**$0**
	10266	**WG094**	**South Banana B Septic to Sewer**	**$2,268,252**	**Florida Department of Environmental Protection**						
2019-29			South Banana - Zone B						$0	$0	**$0**
	10420	**WG010**	**South Central A Septic to Sewer**	**$3,370,572**	**Florida Department of Environmental Protection**						
203			South Central - Zone A							$0	**$0**

SOIRL Project Number	Contract Management Number	Grant Number	Grant & Corresponding Project Titles	Grant Amount	Grantor	FY 2017-2020 Actuals Year 0-3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6	FY 2024 Actuals Year 7	Cumulative Actual Expenditures
	10421	**WG011**	**South Central D Septic to Sewer**	**$2,900,000**	**Florida Department of Environmental Protection**						
150			South Central - Zone D							$0	**$0**
	10682	**WG009**	**South Beaches A Septic to Sewer**	**$1,165,236**	**Florida Department of Environmental Protection**						
2016-35			South Beaches - Zone A							$0	**$0**
	10535	**LPA0472**	**Micco/Little Hollywood Septic to Sewer (540 homes)**	**$4,500,000**	**Florida Department of Environmental Protection**						
136			Micco/Little Hollywood - Zone B							$0	**$0**
	10777	**LG004**	**South Beaches Zone O & P Septic-to-Sewer Project**	**$400,000**	**Florida Department of Environmental Protection**						
2019-36			South Beaches - Zone O							$0	**$0**
2019-37			South Beaches - Zone P							$0	**$0**
	10351	**WG108**	**Willow Lakes RV Resort Sanitary Sewerage Project**	**$1,081,500**	**Florida Department of Environmental Protection**						
237			Willow Lakes Recreational Vehicle Park							$38,732	**$38,732**
State Grants Total				**$77,601,256**							

Table 3. Physical Environment Grants Financial Table

SOIRL Project Number	Contract Management Number	Grant Number	Grant & Corresponding Project Titles	Grant Amount	Grantor	FY 2017-2020 Actuals Year 0-3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6	FY 2024 Actuals Year 7	Cumulative Actual Expenditures
	10473	**38828**	**Sykes Creek Muck Removal Project Phase 2B**	**$1,500,000**	**St. Johns River Water Management District**						
42a & b			Sykes Creek Muck Removal Ph 2B							$0	**$0**
	10806	**407402-4-C8-01**	**SR528 Septic to Sewer Project**	**$4,990,758**	**Florida Department of Transportation**						
47			Sykes Creek - Zone N							$0	**$0**
Physical Environment Grants Total				**$6,490,758**							

Table 4. American Rescue Plan Act Grants Financial Table

SOIRL Project Number	Contract Management Number	Grant Number	Grant & Corresponding Project Titles	Grant Amount	Grantor	FY 2017-2020 Actuals Year 0-3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6	FY 2024 Actuals Year 7	Cumulative Actual Expenditures
	Budget Office		**American Rescue Plan Act (ARPA)**	**$3,986,680**	**ARPA**						
3			Micco Sewer Line Extension (Phase I and II)	$1,060,500				$0	$1,060,500	$0	**$1,060,500**
2016-35			South Beaches - Zone A	$1,265,236				$0	$18,340	$0	**$18,340**
49			Sykes Creek - Zone T	$1,660,944					$0		**$0**
			American Rescue Plan Act Grants Total	**$3,986,680**							

Table 5. Completed or No Longer Active Grants

SOIRL Project Number	Contract Management Number	Grant Number	Grant & Corresponding Project Titles	Grant Amount	Grantor	FY 2017-2020 Actuals Year 0-3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6	FY 2024 Actuals Year 7	Cumulative Actual Expenditures
	7628		**Enhance Transparency and Tourism**	**$95,000**	**Tourism Development Council**						
			TDC Transparency			$23,900	$32,716				**$56,616**
	3842	**NF025**	**Brevard County Baffle Box Upgrades**	**$139,000**	**Florida Department of Environmental Protection**						
13			Central Boulevard Baffle Box			$0	$7,000				**$7,000**
14			Church Street Type II Baffle Box			$0	$13,900				**$13,900**
19			St. Teresa Basin Treatment			$0	$13,900				**$13,900**
20			South Street Basin Treatment			$0	$38,269				**$38,269**
21			La Paloma Basin Treatment			$0	$13,900				**$13,900**
	5232	**IRL2020-18**	**Testing Steel Gabions & Concrete Core Modules Oyster Bars IRL**	**$1,750**	**Indian River Lagoon Council**						
			Testing Steel Gabions & Concrete Core Modules Oyster Bars IRL				$1,447	$32			**$1,479**
			Other Reimbursable Charges for Testing Steel Gabions & Concrete Core Modules Oyster Bars IRL				$271	$0			**$271**
	5009	**NF070**	**Micco 319**	**$272,118**	**Florida Department of Environmental Protection**						
3			Micco Sewer Line Extension (Phase I and II)			$0	$0	$0			**$0**
	5226	**36515**	**Grand Canal - Phase II**	**$983,180**	**St. Johns River Water Management District**						
41a & b			Grand Canal Muck & Interstitial Treatment			$0	$0	$983,180			**$983,180**
	5207	**36535**	**Oak Point**	**$350,000**	**St. Johns River Water Management District**						
192			Oak Point Wastewater Treatment Facility Improvements			$0	$0	$163,642	$186,358		**$350,000**

SOIRL Project Number	Contract Management Number	Grant Number	Grant & Corresponding Project Titles	Grant Amount	Grantor	FY 2017-2020 Actuals Year 0-3*	FY 2021 Actuals Year 4*	FY 2022 Actuals Year 5*	FY 2023 Actuals Year 6	FY 2024 Actuals Year 7	Cumulative Actual Expenditures
	7626		**Manatee Hot Spot Map**	**$23,140**	**Tourism Development Council**						
			Manatee Hot Spot			$200	$6,804				**$7,004**
	7630		**AquaLutions Indian River Lagoon Feasibility Study**	**$49,282**	**Tourism Development Council**						
			AquaLutions			$0					**$0**
	Budget Office		**Federal Hurricane Irma**		**Florida Department of Environmental Protection**						
2016-3a & b			Muck Re-dredging in Turkey Creek & Interstitial Treatment	**$820,053**		$820,053					**$820,053**
	Budget Office		**State Hurricane Irma**		**Florida Department of Environmental Protection**						
2016-3a & b			Muck Re-dredging in Turkey Creek & Interstitial Treatment	**$136,675**		$136,675					**$136,675**
	6414	**LPA0144**	**50 Septic Upgrades - Amendment 2**	**$339,653**	**Florida Department of Environmental Protection**						
51			Banana Septic Upgrades 100 Upgrades						$6,263		**$6,263**
53			Central IRL 939 Septic System Upgrades						$257,790		**$257,790**
52			North IRL 586 Septic System Upgrades						$75,600		**$75,600**
	6411		**Manatee Field Guide: Signage & Distribution**	**$48,000**	**Tourism Development Council**						
			Manatee Signage & Distribution				$0	$19,351	$28,649		**$48,000**
	7625		**Lagoon Recreational Field Guide**	**$44,000**	**Tourism Development Council**						
			Lagoon Recreational Field Guide				$0	$20,312	$23,688		**$44,000**
	9842	**38051**	**Grand Canal Muck Removal Ph 4**	**$321,777**	**St. Johns River Water Management District**						
41a & b			Grand Canal Muck & Interstitial Treatment						$257,561	$64,216	**$321,777**
	6401	**36553**	**South Central C Septic to Sewer**	**$1,166,820**	**St. Johns River Water Management District**						
2016-50			South Central - Zone C			$0	$0	$1,166,357	$463		**$1,166,820**
	6415	**INV14**	**Remote Sensing of Harmful Algal Blooms**	**$355,972**	**Florida Department of Environmental Protection**						
			Remote Sensing of Harmful Algal Blooms (HABs)				$0	$181,569	$147,684	$26,719	**$355,972**
	9752	**INV24**	**Algae Shipboard Harvester**	**$999,000**	**Florida Department of Environmental Protection**						
			AECOM Mobile Algae Harvesting Mitigate HABs					$0	$100,000	$897,400	**$997,400**
	10235		**Restoring Seagrass for Improved Natural Resilience**	**$250,000**	**Tourism Development Council**						
			Restoring Seagrass						$0	$214,842	**$214,842**
Reimbursed or No Longer Active Grants Total				**$6,397,170**							
Total Grants Contracted				**$106,040,380**							

Save Our Indian River Lagoon Performance Tables – Fiscal Year 23/24 Quarter 4

*Projects Completed; ⁺ Project using contingency funds; FY=Fiscal Year; TBD = To Be Determined; WWTF = Wastewater Treatment Facility

Table 1. Public Education Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
58a	Expanded Fertilizer Education	Brevard County	$997,320	6,613	813	Complete	Complete	100%	89%
58b	Grass Clippings Campaign	Brevard County	$400,420	17,800	1,200	Complete	Complete	100%	35%
58c	Septic System Maintenance Education	Brevard County	$530,028	4,466	TBD	Complete	Complete	100%	86%
245	Irrigation Education Campaign	Brevard County	$324,360	1,530	N/A	Complete	Complete	5%	
246	Stormwater Best Management Practice Maintenance Education	Brevard County	$324,360	3,300	400	Complete	Complete	5%	
193	Oyster Gardening*	Brevard Zoo	$300,000	N/A	N/A	Complete	Complete	100%	100%
227	Restore Our Shores: Community Collaborative	Brevard Zoo	$1,124,521	N/A	N/A	Complete	Complete	100%	55%
	Public Education Total		**$4,001,009**	**33,709**	**2,413**				

Table 2. Wastewater Treatment Facility Upgrades for Reclaimed Water Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
234	South Brevard Water Reclamation Facility	Brevard County	$1,752,210	4,316	863	Complete	Complete		
99	Cocoa Beach Water Reclamation Facility Upgrade*	Cocoa Beach	$945,000	2,520	685	Complete	Complete	100%	100%
59	City of Melbourne Grant Street Water Reclamation Facility	Melbourne	$9,128,125	18,052	9,671	Complete	Complete	100%	
2016-17	City of Palm Bay Water Reclamation Facility*	Palm Bay	$3,634,900	20,240	102	Complete	Complete	100%	100%
216	City of Rockledge Flow Equalization Basin Project	Rockledge	$2,308,768	5,365	N/A	Complete	Complete	100%	95%
2016-2a, 2016-2b	City of Titusville Osprey WWTF& Nutrient Removal Upgrade Phase 2⁺**	Titusville	$8,219,826	12,286	TBD	Complete	Complete	100%	100%
138	Ray Bullard Water Reclamation Facility Biological Nutrient Removal Upgrades	West Melbourne	$5,784,232	11,360	3,302	Complete	Complete	100%	
	WWTF Upgrades for Reclaimed Water Total		**$31,773,061**	**74,139**	**14,623**				

Table 3. Rapid Infiltration Basin/Sprayfield Upgrades Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
6	Long Point Park Upgrade*	Brevard County	$22,207	163	TBD	Complete	Complete	100%	100%
196	Sterling House Condominium Sprayfield	Property Owner	$71,461	154	TBD				

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
	Rapid Infiltration Basin/Sprayfield Upgrades Total		**$93,668**	**317**	**TBD**				

Table 4. Package Plant Connection Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
192	Oak Point Wastewater Treatment Facility Improvements*	Property Owner	$279,000	186	TBD	Complete	Complete	100%	100%
237	Willow Lakes Recreational Vehicle Park	Property Owner	$1,152,750	725	TBD	Complete	Complete	100%	
239	The Cove at South Beaches Package Plant Connection	Property Owner	$128,790	81	TBD				
249	Indian River Shores Trailer Park Wastewater Treatment Facility	Property Owner	$593,965	450	TBD				
	Package Plant Connection Total		**$2,154,505**	**1,442**	**TBD**				

Table 5. Sewer Laterals Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
63a	Countywide Repair/Replacement (1,037 of 1,047 repairs completed)	Brevard County	$849,504	6,196	188	Complete	Complete	100%	99%
63b	Satellite Beach Lateral Smoke Testing*	Brevard County	$283,168	-	N/A	Complete	Complete	100%	100%
114	Barefoot Bay Lateral Smoke Testing*	Brevard County	$83,564	-	N/A	Complete	Complete	100%	100%
115	South Beaches Lateral Smoke Testing*	Brevard County	$84,304	-	N/A	Complete	Complete	100%	100%
116	Merritt Island Lateral Smoke Testing*	Brevard County	$246,630	-	N/A	Complete	Complete	100%	100%
100	Osprey Basin Lateral Repair Project	Titusville	$278,621	-	N/A	Complete	Complete	100%	90%
	Sewer Laterals Total		**$1,825,791**	**6,196**	**188**				

Table 6. Septic System Removal by Sewer Extension Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
2019-27	Sharpes - Zone A (0 of 186 connected)	Brevard County	$10,966,513	5,248	TBD	Complete	Complete	60%	
2019-29	South Banana - Zone B (0 of 41 connected)	Brevard County	$1,912,035	915	TBD	Complete	Complete	100%	
2016-35	South Beaches - Zone A (1 of 37 connected)	Brevard County	$2,340,144	1,306	TBD	Complete	Complete	31%	
2019-36	South Beaches - Zone O (0 of 4 connected)	Brevard County	$185,963	136	TBD	Complete	Complete	100%	
2019-37	South Beaches - Zone P (0 of 15 connected)	Brevard County	$418,416	242	TBD	Complete	Complete	100%	
50b	South Central - Zone C (131 of 150 connected)	Brevard County	$8,961,486	5,146	TBD	Complete	Complete	100%	88%
3	Micco Sewer Line Extension (Phase I and II) (1 of 29 connected)	Brevard County	$2,239,500	1,493	TBD	Complete	Complete	100%	63%

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
47	Sykes Creek - Zone N (0 of 91 connected)	Brevard County	$4,988,485	2,784	TBD	Complete	Complete	100%	
48	Sykes Creek - Zone M (0 of 56 connected)	Brevard County	$3,221,730	1,798	TBD	Complete	Complete	100%	
49	Sykes Creek - Zone T (0 of 148 connected)	Brevard County	$6,020,586	3,360	TBD	Complete	Complete	100%	
136	Micco - Zone B (0 of 229 connected)	Brevard County	$10,069,652	6,484	TBD	Complete	Complete	80%	
145	Merritt Island - Zone F (0 of 71 connected)	Brevard County	$1,493,581	1,292	TBD	Complete	Complete	97%	
146	Merritt Island - Zone C (0 of 43 connected)	Brevard County	$2,145,325	1,419	TBD	Complete	Complete	95%	
147	Sykes Creek - Zone R (0 of 221 connected)	Brevard County	$7,827,120	5,040	TBD	Complete	Complete	75%	
148	North Merritt Island - Zone E (0 of 223 connected)	Brevard County	$5,104,711	3,287	TBD	Complete	Complete	88%	
150	South Central - Zone D (0 of 94 connected)	Brevard County	$6,482,821	3,387	TBD	Complete	Complete	63%	
151	Merritt Island - Zone G (0 of 785 connected)	Brevard County	$11,784,164	7,588	TBD	Complete	Complete	78%	
152	Sharpes - Zone B (0 of 136 connected)	Brevard County	$5,745,779	2,692	TBD	Complete	Complete	45%	
153	Cocoa - Zone C (0 of 61 connected)	Brevard County	$3,960,150	2,550	TBD	Complete	Complete	66%	
203	South Central - Zone A (0 of 101 connected)	Brevard County	$6,549,178	3,655	TBD	Complete	Complete	4%	
238	Kelly Park	Brevard County	$143,100	90	TBD				
240	Rotary Park	Brevard County	$165,360	104	TBD				
241	Manatee Cove	Brevard County	$38,160	24	TBD				
242	Riverwalk	Brevard County	$6,360	4	TBD				
2016-31/32	City of Cocoa - Zones J & K	Cocoa	$7,261,193	3,748	TBD				
2020-34	South Central - Zone F/Pineapple Avenue (7 of 61 connected)	Melbourne	$2,371,024	1,688	TBD	Complete	Complete	100%	29%
4	Hoag Sewer Conversion (2 of 5 connected)	Melbourne	$112,285	101	TBD	Complete	Complete	100%	70%
5	Pennwood Sewer Conversion (1 of 5 connected)	Melbourne	$93,400	103	TBD	Complete	Complete	100%	60%
61	Riverside Drive Septic-to-Sewer Conversion (1 of 12 connected)	Melbourne	$353,345	305	TBD	Complete	Complete	100%	54%
62	Roxy Avenue Septic-to-Sewer Conversion (2 of 7 connected)	Melbourne	$119,934	102	TBD	Complete	Complete	100%	61%
189	Avenida del Rio Septic to Sewer (0 of 3 connected)	Melbourne	$88,169	71	TBD				
190	Bowers Septic to Sewer (0 of 6 connected)	Melbourne	$185,155	120	TBD				
191	Kent and Villa Espana Septic to Sewer Conversion (3 of 33 connected)	Melbourne	$894,284	542	TBD	Complete	Complete	100%	54%
2	Merritt Island Septic Phase Out Project (74 connected)*	Merritt Island Redevelopment Agency	$320,268	2,492	TBD	Complete	Complete	100%	100%
2016-39	City of Palm Bay – Zone A (0 of 77 connected)	Palm Bay	$3,069,596	2,136	TBD				
2016-46	City of Palm Bay – Zone B (0 of 249 connected)	Palm Bay	$9,926,355	6,809	TBD				
2016-30	City of Rockledge (0 of 15 connected)	Rockledge	$597,973	712	TBD				
2016-40	Rockledge - Zone B (0 of 160 connected)	Rockledge	$7,438,505	4,037	TBD				
1	Breeze Swept Septic to Sewer Connection (143 connected)*	Rockledge	$880,530	3,227	TBD	Complete	Complete	100%	100%
222	Hedgecock/Grabowsky & Desoto Fields (2 connected)*	Satellite Beach	$121,500	81	TBD	Complete	Complete	100%	100%
2019-38	City of Titusville - Zone H (0 of 35 connected)	Titusville	$1,627,173	910	TBD				
109	City of Titusville - Zones A-G (0 of 18 connected)	Titusville	$1,435,136	1,563	TBD	Complete	Complete	55%	
60	Sylvan Estates Septic-to-Sewer Conversion (59 connected)*	West Melbourne	$1,561,215	1,073	TBD	Complete	Complete	100%	100%

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
224	Lake Ashley Circle (0 of 46 connected)	West Melbourne	$1,914,614	1,136	TBD	Complete	Complete	100%	3%
225	Dundee Circle and Manor Place (0 of 60 connected)	West Melbourne	$2,526,415	1,499	TBD	Complete	Complete	100%	3%
	Septic System Removal by Sewer Extension Total		**$145,668,388**	**92,499**	**TBD**				

Table 7. Septic System Removal by Sewer Connection Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Applications Contracted	Contracts Completed	Total TN Reduction (lbs/yr)
2016-16	Banana Septic System 144 Quick Connections	Private Citizens	$2,639,710	16	10	224
2016-18	North IRL Septic System 463 Quick Connections	Private Citizens	$8,119,168	42	23	563
2016-19	Central IRL Septic System 335 Quick Connections	Private Citizens	$5,125,028	432	327	7,202
	Septic System Removal by Sewer Connection Total		**$15,883,906**	**490**	**360**	**7,989**

Table 8. Septic System Upgrades Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Applications Contracted	Contracts Completed	Total TN Reduction (lbs/yr)
51	Banana River Lagoon 100 Septic System Upgrades	Private Citizens	$2,122,244	54	31	600
52	North IRL 586 Septic System Upgrades	Private Citizens	$12,447,196	151	101	2,388
53	Central IRL 939 Septic System Upgrades	Private Citizens	$20,462,273	337	195	4,608
	Septic System Upgrades Total		**$35,031,713**	**542**	**327**	**7,596**

Table 9. Stormwater Projects Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
2016-41	Banana River Lagoon 102 Basin Projects	Brevard County	$25,906,058	36,567	5,226				
2016-42	North IRL 94 Basin Projects	Brevard County	$42,723,316	98,925	14,235				
18	Basin 62 Denitrification Retrofit of Johns Road Pond*	Brevard County	$105,512	1,199	TBD	Complete	Complete	100%	100%
22	Basin 1387 Kingsmill-Aurora Phase Two	Brevard County	$479,634	4,176	814	Complete	Complete	90%	
23	Basin 41 Denitrification Retrofit of Huntington Pond	Brevard County	$136,677	1,190	TBD	Complete	Complete	75%	
24	Basin 71 Denitrification Retrofit of Flounder Creek Pond	Brevard County	$98,316	856	TBD	Complete	Complete	100%	
85	Basin 1304 Bioreactor*	Brevard County	$83,029	958	127	Complete	Complete	100%	100%

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
87	Basin 2134 Fleming Grant Biosorption Activated Media*	Brevard County	$56,588	602	91	Complete	Complete	100%	100%
89	Basin 1298 Bioreactor*	Brevard County	$85,829	917	116	Complete	Complete	100%	100%
90	Basin 51 Johns Road Pond Biosorption Activated Media*	Brevard County	$23,030	245	37	Complete	Complete	100%	100%
91	Basin 100 Burkholm Road Biosorption Activated Media*	Brevard County	$64,390	685	104	Complete	Complete	100%	100%
92	Basin 115 Carter Road Biosorption Activated Media*	Brevard County	$62,510	665	101	Complete	Complete	100%	100%
93	Basin 193 Wiley Ave Biosorption Activated Media*	Brevard County	$82,735	954	144	Complete	Complete	100%	100%
94	Basin 832 Broadway Pond Biosorption Activated Media*	Brevard County	$42,864	456	69	Complete	Complete	100%	100%
117	Basin 10 County Line Road Woodchip Bioreactor*	Brevard County	$72,773	597	90	Complete	Complete	100%	100%
118	Basin 26 Sunset Road Serenity Park Woodchip Bioreactor*	Brevard County	$73,810	605	92	Complete	Complete	100%	100%
119	Basin 141 Irwin Avenue Woodchip Bioreactor*	Brevard County	$69,174	567	86	Complete	Complete	100%	100%
121	Basin 2258 Babcock Road Woodchip Bioreactor	Brevard County	$68,166	412	62	Complete	Complete	100%	
122	Basin 22 Huntington Road Serenity Park Woodchip Bioreactor*	Brevard County	$40,077	329	50	Complete	Complete	100%	100%
205	Basin 998 Hampton Homes	Brevard County	$67,435	312	47	Complete	Complete		
206	Basin 1066 Angel Ave	Brevard County	$246,132	1,150	173	Complete	Complete	34%	
207	Basin 1124 Elliot Canal	Brevard County	$156,986	533	78	Complete	Complete		
213	Johnson Junior High Denitrification Media Chamber Modification*	Brevard County	$40,815	206	TBD	Complete	Complete	100%	100%
215	Basin 960 Pioneer Road Denitrification	Brevard County	$43,652	105	3	Complete	Complete	100%	
220	Basin 1398 Sand Dollar Canal Bioreactor	Brevard County	$222,500	444	70	Complete	Complete	30%	
247	Basin 998 Richland Avenue Canal	Brevard County	$138,629	641	97	Complete	Complete		
248	Basin 116 Lionel Road (Withdrawn)	Brevard County	$196,842	936	142				
250	Basin 1280B Flamingo Road Denitrification	Brevard County	$75,944	161	31	Complete	Complete	100%	
251	Basin 1304B West Arlington Road Denitrification	Brevard County	$102,211	216	TBD	Complete	Complete	100%	
252	Basin 89 Scottsmoor I Aurantia Road Denitrification	Brevard County	$152,573	1,706	292	Complete	Complete	100%	100%
13	Central Boulevard Baffle Box*	Cape Canaveral	$34,700	481	14	Complete	Complete	100%	100%
14	Church Street Type II Baffle Box*	Cocoa	$88,045	937	135	Complete	Complete	100%	100%
124	Floating Wetlands to Existing Stormwater Ponds*	Cocoa	$1,497	12	3	Complete	Complete	100%	100%

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
129	Forrest Avenue 72-inch Outfall Baseflow Capture/Treatment	Cocoa	$18,949	94	12	Complete	Complete	60%	
177	North and South Lakemont Ponds Floating Wetlands*	Cocoa	$13,054	107	25	Complete	Complete	100%	100%
231	North Fiske Stormwater Pond Floating Wetlands	Cocoa	$50,000	200	32	Complete	Complete	100%	100%
64	Stormwater Low Impact Development Convair Cove 1 – Blakey Boulevard*	Cocoa Beach	$4,650	30	3	Complete	Complete	100%	100%
65	Stormwater Low Impact Development Convair Cove 2 – Dempsey Drive*	Cocoa Beach	$4,495	29	3	Complete	Complete	100%	100%
219	McNabb Outfall Bioretention	Cocoa Beach	$21,824	44	7	Complete	Complete	100%	90%
254	Maritime Hammock Preserve Floating Vegetative Islands	Cocoa Beach	$8,500	174	36				
258	Cocoa Beach Golf Course Floating Vegetative Islands	Cocoa Beach	$36,810	90	14				
259	Ramp Road Park - Stormwater Improvements	Cocoa Beach	$16,796	41	8				
127	Basin 5 Dry Retention*	Indialantic	$16,680	113	18	Complete	Complete	100%	100%
16	Gleason Park Reuse*	Indian Harbour Beach	$4,224	48	9	Complete	Complete	100%	100%
66	Big Muddy at Cynthia Baffle Box*	Indian Harbour Beach	$59,631	436	58	Complete	Complete	100%	100%
34	Cliff Creek Baffle Box*	Melbourne	$347,781	3,952	797	Complete	Complete	100%	100%
35	Thrush Drive Baffle Box*	Melbourne	$322,200	3,661	773	Complete	Complete	100%	100%
67	Grant Place Baffle Box*	Melbourne	$82,481	937	193	Complete	Complete	100%	100%
69	Apollo/GA Baffle Box	Melbourne	$401,184	3,381	479				
95	Cherry Street Baffle Box (Withdrawn)	Melbourne	$427,321	980	174	Complete	Complete	90%	
96	Spring Creek Baffle Box	Melbourne	$460,896	1,057	232	Complete	Complete	90%	
88	Espanola Baffle Box	Melbourne	$146,535	1,119	148				
169	Sherwood Park Stormwater Quality Project*	Melbourne	$392,108	3,214	879	Complete	Complete	100%	100%
175, 176	High School & Funeral Home Baffle Box*	Melbourne	$203,008	1,664	448	Complete	Complete	100%	100%
257	Riverview Park Baffle Box	Melbourne	$308,091	863	168				
15	Bayfront Stormwater Project*	Palm Bay	$30,624	348	83	Complete	Complete	100%	100%
235	Woodland Business Center Stormwater Retention	Property Owner	$5,200	11	2	Complete	Complete	100%	90%
128	Jackson Court Stormwater Treatment Facility*	Satellite Beach	$8,266	56	8	Complete	Complete	100%	100%
179	Lori Laine Basin Pipe Improvement Project*	Satellite Beach	$17,525	117	21	Complete	Complete	100%	100%
68	Crane Creek/M-1 Canal Flow Restoration	St. Johns Water Management District	$2,742,609	23,113	2,719	Complete	Complete	100%	65%

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
256	C-10 Water Management Area	St. Johns Water Management District	$10,460,100	29,300	1,300				
19	St. Teresa Basin Treatment*	Titusville	$272,800	3,100	459	Complete	Complete	100%	100%
20	South Street Basin Treatment*	Titusville	$86,856	987	156	Complete	Complete	100%	100%
21	La Paloma Basin Treatment*	Titusville	$208,296	2,367	346	Complete	Complete	100%	100%
97	Titusville High School Baffle Box*	Titusville	$111,813	1,190	166	Complete	Complete	100%	100%
98	Coleman Pond Managed Aquatic Plant System*	Titusville	$11,438	1,240	198	Complete	Complete	100%	100%
110	Osprey Plant Pond Managed Aquatic Plant Systems*	Titusville	$37,500	606	88	Complete	Complete	100%	100%
120	Draa Field Pond Managed Aquatic Plant Systems*	Titusville	$31,281	256	38	Complete	Complete	100%	100%
174	St. Johns 2 Baffle Box*	Titusville	$243,070	1,992	611	Complete	Complete	100%	100%
178	Marina B Managed Aquatic Plant Systems*	Titusville	$6,670	55	7	Complete	Complete	100%	100%
214	Sand Point Park Baffle Box*	Titusville	$154,085	438	71	Complete	Complete	100%	100%
232	Riverfront Center Nutrient Removing Filtrations Boxes*	Titusville	$224,992	679	160	Complete	Complete	100%	100%
233	Commons and City Hall Tree Boxes	Titusville	$26,542	80	15	Complete	Complete	100%	
255	Hamilton Ave Baffle Box (Withdrawn)	Titusville	$350,000	1,550	209				
123	Ray Bullard Water Reclamation Facility Stormwater Management Area*	West Melbourne	$111,847	1,317	400	Complete	Complete	100%	100%
	Stormwater Projects Total		**$90,331,181**	**249,781**	**34,102**				

Table 10. Vegetation Harvesting Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
112	County Wide Stormwater Pond Harvesting*	Brevard County	$14,000	931	327	Complete	Complete	100%	100%
172	Horseshoe Pond Vegetative Harvesting*	Brevard County	$8,140	4,536	242	Complete	Complete	100%	100%
209	Basin 1398 Sand Dollar Canal Harvesting*	Brevard County	$24,420	222	21	Complete	Complete	100%	100%
210	Basin 958 Pioneer Road Vegetation Harvesting	Brevard County	$44,865	363	47	Complete	Complete	100%	
228	Unincorporated Countywide Vegetation Harvesting*	Brevard County	$477,000	4,091	993	Complete	Complete	100%	100%
173	North and South Lakemont Ponds Vegetation Harvesting (Withdrawn)	Cocoa	$2,494	18	4				
208	Maritime Hammock Preserve Stormwater Pond Vegetation Harvesting*	Cocoa Beach	$14,480	143	5	Complete	Complete	100%	100%
211	Cocoa Beach Golf Course Stormwater Pond Harvesting*	Cocoa Beach	$641,638	5,385	542	Complete	Complete	100%	100%

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
171	Mechanical Aquatic Vegetation Harvesting*	Melbourne Tillman Water Control District	$1,011,976	16,636	1,664	Complete	Complete	100%	100%
111	Draa Field Vegetation Harvesting*	Titusville	$86,413	786	99	Complete	Complete	100%	100%
	Vegetation Harvesting Total		**$2,325,426**	**33,111**	**3,944**				

Table 11. Muck Removal Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
2016-3a	Muck Re-dredging in Turkey Creek Treatment*	Brevard County	$137,329	10,745	578	Complete	Complete	100%	100%
2016-04a	Rockledge A Muck	Brevard County	$5,226,203	4,572	998	Complete	Complete	30%	
2016-05a	Pineda Banana River Lagoon	Brevard County	$8,152,876	14,459	662	Complete	Complete	10%	
2016-06a	Titusville Railroad West	Brevard County	$3,762,866	5,786	244	Complete	Complete	30%	
2016-07a	National Aeronautics and Space Administration Causeway East	Brevard County	$11,915,742	44,933	2,156	Complete	Complete	30%	
2016-08a	Titusville Railroad East	Brevard County	$4,808,108	8,026	246	Complete	Complete	30%	
2016-10a	Canaveral South	Brevard County	$17,560,041	41,724	2,275	Complete	Complete	5%	
2016-11a	Patrick Space Force Base	Brevard County	$8,570,973	11,830	382	Complete	Complete	10%	
41a	Grand Canal Muck	Brevard County	$16,433,977	26,481	1,698	Complete	Complete	100%	87%
42a	Sykes Creek Muck	Brevard County	$6,141,374	28,798	2,618	Complete	Complete	100%	12%
54a	Eau Gallie Northeast Muck	Brevard County	$10,452,405	11,358	2,477	Complete	Complete	100%	
71	Merritt Island Muck Removal – Phase 1	Brevard County	$10,428,024	26,208	1,638	Complete	Complete	90%	
260	Mims Rim Ditch Muck Removal	Brevard County	$10,077,414	16,602	518				
70a	Cocoa Beach Muck Dredging – Phase III*	Cocoa Beach	$1,376,305	13,104	819	Complete	Complete	100%	100%
101	Cocoa Beach Muck Dredging Phase II-B*	Cocoa Beach	$5,911,150	20,160	1,260	Complete	Complete	100%	100%
168a	Cocoa Beach Golf Muck	Cocoa Beach	$25,503,868	38,416	2,058	Complete	Complete	90%	
72a	Muck Removal of Indian Harbour Beach Canals	Indian Harbour Beach	$4,897,210	12,096	756	Complete	Complete	90%	
223	Spring Creek Dredging	Melbourne	$89,978	504	32	Complete	Complete	45%	
236	Sunnyland Canals Muck Removal	Property Owners	$5,528,536	7,560	315				
262	Shore View Lane Dredging	Property Owners	$44,918	74	10				
144 & 113	Satellite Beach Muck Dredging	Satellite Beach	$2,558,402	12,432	777	Complete	Complete	90%	
	Muck Removal Total		**$159,577,699**	**355,868**	**22,517**				

Table 12. Interstitial Treatment Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
2016-3b	Muck Interstitial Water Treatment for Turkey Creek	Brevard County	Included in muck project	Not applicable	Not applicable	Complete	Complete	100%	100%

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
2016-04b	Rockledge A	Brevard County	$758,837	10,308	912	Complete	Complete	30%	
2016-5b	Pineda Banana River Lagoon	Brevard County	$1,183,786	17,688	1,564				
2016-06b	Titusville Railroad West	Brevard County	$546,362	30,563	2,703	Complete	Complete	30%	
2016-07c	National Aeronautics and Space Administration Causeway East	Brevard County	$1,730,148	44,838	3,965	Complete	Complete	30%	
2016-08b	Titusville Railroad East	Brevard County	$698,130	50,668	4,481	Complete	Complete	30%	
2016-10b	Canaveral South	Brevard County	$2,549,693	66,524	5,883	Complete	Complete	5%	
2016-11b	Patrick Space Force Base	Brevard County	$1,244,493	18,482	1,634				
40	Mims Muck Removal: Outflow Water Nutrient Removal	Brevard County	$0	2,803	244	Complete	Complete	100%	100%
41b	Grand Canal Interstitial	Brevard County	$7,302,686	43,673	3,858	Complete	Complete	100%	87%
42b	Sykes Creek Interstitial	Brevard County	$14,681,450	60,216	5,328	Complete	Complete	100%	12%
54b	Eau Gallie Northeast	Brevard County	$1,517,674	35,182	3,111	Complete	Complete	100%	
261	Mims Rim Ditch Interstitial Treatment	Brevard County	$1,784,135	15,700	1,292				
168b	Cocoa Beach Golf Interstitial Treatment	Cocoa Beach	$3,599,330	87,902	7,773	Complete	Complete	90%	
72b	Muck Interstitial Water Treatment for Indian Harbour Beach Canals	Indian Harbour Beach	$7,394,192	16,525	1,461	Complete	Complete	90%	
113	Satellite Beach Interstitial Water Treatment	Satellite Beach	$4,151,824	18,367	1,624	Complete	Complete	90%	
	Interstitial Treatment Total		**$49,142,740**	**519,439**	**45,833**				

Table 14. Oyster Bars Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
2016-55	Banana River Lagoon County Oyster Bars (114,225 Square Feet)	Brevard County	$2,153,550	4,569	114				
2016-56	North IRL County Oyster Bars (229,446 Square Feet)	Brevard County	$4,325,876	9,178	229				
2016-57	Central IRL County Oyster Bars (37,603 Square Feet)	Brevard County	$700,399	1,486	38				
73	RiverView Senior Resort Oyster Bar* (1,920 Square Feet)	Brevard County	$30,304	77	2	Complete	Complete	100%	100%
226	Hog Point Offshore Oyster Bar* (3,600 Square Feet)	Brevard County	$64,755	144	3	Complete	Complete	100%	100%
75	Marina Isles Oyster Bar* (1,500 Square Feet)	Brevard Zoo	$26,700	60	20	Complete	Complete	100%	100%
76	Bettinger Oyster Bar* (720 Square Feet)	Brevard Zoo	$10,680	24	8	Complete	Complete	100%	100%
79	Gitlin Oyster Bar* (1,080 Square Feet)	Brevard Zoo	$16,020	36	12	Complete	Complete	100%	100%
80	Coconut Point/Environmentally Endangered Lands Oyster Bar* (2,400 Square Feet)	Brevard Zoo	$45,120	96	2	Complete	Complete	100%	100%
81	Wexford Oyster Bar* (1,750 Square Feet)	Brevard Zoo	$31,150	70	24	Complete	Complete	100%	100%
83	Bomalaski Oyster Bar* (600 Square Feet)	Brevard Zoo	$8,900	20	7	Complete	Complete	100%	100%
104	Brevard Zoo Banana River Oyster Project (2,638 of 36,894 Square Feet)	Brevard Zoo	$812,207	1,476	37	Complete	Complete	7%	7%
105	Brevard Zoo Central IRL Oyster Project* (10,200 Square Feet)	Brevard Zoo	$161,160	408	10	Complete	Complete	100%	100%
106	Brevard Zoo North IRL Oyster Project* (21,600 Square Feet)	Brevard Zoo	$475,438	864	22	Complete	Complete	100%	100%

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
139	Brevard Zoo North IRL Oyster Project 2 (4,861 of 21,030 Square Feet)	Brevard Zoo	$456,764	841	21	Complete	Complete	60%	23%
140	Brevard Zoo Central IRL Oyster Project 2 (5,638 of 16,932 Square Feet)	Brevard Zoo	$367,692	677	17	Complete	Complete	60%	33%
141	Brevard Zoo Banana River Oyster Project 2 (16,560 Square Feet)	Brevard Zoo	$359,546	662	17				
142	Brevard Zoo Oyster Reef Adjustments North IRL (1,700 Square Feet)	Brevard Zoo	$36,932	68	2				
143	Brevard Zoo Oyster Reef Adjustments Banana River (800 Square Feet)	Brevard Zoo	$17,380	32	1				
184	Brevard Zoo North Indian River Lagoon Oyster Project 3 (3,702 of 26,388 Square Feet)	Brevard Zoo	$528,046	1,056	26	Complete	Complete	63%	14%
185	Brevard Zoo Central Indian River Lagoon Tributary Pilot Oyster Project (14,520 square feet)	Brevard Zoo	$290,525	581	15	Complete	Complete	72%	72%
186	Brevard Zoo North Indian River Lagoon Individual Oyster Project	Brevard Zoo	$218,019	436	11	Complete			
187	Brevard Zoo Central Indian River Lagoon Oyster Project 3	Brevard Zoo	$109,009	218	5	Complete	Complete		
188	Brevard Zoo Banana River Oyster Project 3	Brevard Zoo	$77,084	143	4				
217	Brevard Zoo Central Indian River Lagoon Oyster Project 4	Brevard Zoo	$155,232	348	9	Complete	Complete		
218	Central Oyster Project Offshore Reefs	Brevard Zoo	$401,462	900	23	Complete			
78a	McNabb Park Oyster Bar (1,180 Square Feet)*	Cocoa Beach	$9,134	47	1	Complete	Complete	100%	100%
82a	Riverview Park Oyster Bar (5,750 Square Feet) (Withdrawn)	Melbourne	$146,695	230	78				
	Oyster Bars Total		**$12,035,779**	**24,747**	**758**				

Table 15. Planted Shoreline Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
212	Titusville Causeway Multi-Trophic Restoration & Living Shoreline (1,950 Linear Feet)	Brevard County	$35,326	131	45	Complete	Complete	100%	2%
103	Brevard Zoo North IRL Plant Project* (50 Linear Feet)	Brevard Zoo	$720	3	1	Complete	Complete	100%	100%
130	Brevard Zoo North IRL Plant Project 2* (610 Linear Feet)	Brevard Zoo	$9,840	41	14	Complete	Complete	100%	100%
78b	McNabb Park Planted Shoreline (108 Linear Feet)*	Cocoa Beach	$1,680	7	2	Complete	Complete	100%	100%
77a	Cocoa Beach Country Club Planted Shoreline* (1,000 Linear Feet)	Marine Resources Council	$16,080	67	23	Complete	Complete	100%	100%
77b	Lagoon House Shoreline Restoration Planting* (1,493 Linear Feet)	Marine Resources Council	$24,000	100	34	Complete	Complete	100%	100%
133	Fisherman's Landing* (300 Linear Feet)	Marine Resources Council	$4,800	20	7	Complete	Complete	100%	100%
135	Rotary Park* (300 Linear Feet)	Marine Resources Council	$4,800	20	7	Complete	Complete	100%	100%
180	Scottsmoor Impoundment (650 Linear Feet)	Marine Resources Council	$13,301	44	15				
181	Riveredge* (250 Linear Feet)	Marine Resources Council	$4,080	17	6	Complete	Complete	100%	100%

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
82b	Riverview Park Planted Shoreline (1,150 Linear Feet) (Withdrawn)	Melbourne	$24,919	77	26				
	Planted Shorelines Total		**$139,546**	**527**	**180**				

Table 16. Clam Restoration Performance Table

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost (Inflated)	TN Reductions (lbs/yr)	TP Reductions (lbs/yr)	Scope of Work Received	Contract Review Status	Design	Construction
194	Aquaculture Stimulus Program (7 of 10 grantees)	Private Citizens	$75,573	1,000	TBD	Complete	Complete	70%	60%
	Clam Restoration Total		**$75,573**	**1,000**	**TBD**				

Table 17. Overview

Totals	Total Annual TN Reduction (lbs/yr)	Total Annual TP Reduction (lbs/yr)	Total One-Time TN Reduction (lbs)	Total One-Time TP Reduction (lbs)	Scopes of Work Received	Contracts Executed	Projects in Design	Projects Under Construction	Projects Completed
Total as of Previous Quarter	173,297	12,700	70,906	7,143	191	185	185	122	95
Total as of This Quarter	177,592	12,884	75,710	7,568	196	194	188	127	97

Please note TN and TP reductions were split into annual and one-time reductions.

Save Our Indian River Lagoon
Citizen Oversight Committee
November 15, 2024

Agenda Item:
VIII. a. New Business

Title:
Project Funding Recommendations to include in the recommended 2025 Plan Update

Requested Action:
Motion to recommend modification of the *Save Our Indian River Lagoon Project Plan* to include:

- All the projects in the 2025 Project Funding Requests List with the exception of Project(s) Numbered _____*[list project numbers to be excluded]*.
- The projects recommended for inclusion in the 2025 Plan Update will be funded as substitutes by removing funding for the following projects _____and reducing funding for the following projects: _____. *(Least cost-effective projects to be considered for substitution will be presented and reviewed for each project type and location during the meeting.)*

The Citizen's Oversight Committee may consider adding the following direction:

- Project(s) Numbered _____[list project numbers to be returned], are returned to staff for further review and Committee reconsideration at a later date.

Summary Explanation and Background:
Each year, new project ideas and funding requests are accepted for consideration by the Citizen Oversight Committee to be recommended for funding and inclusion in the next annual update of the Save Our Indian River Lagoon Project Plan.

The Committee's recommendations are presented to the Board of County Commissioners for their inclusion, modification and inclusion, or non-inclusion in the next annual plan update. Per the enabling ordinance for the surtax, the Board shall not act on the Committee's recommendations any sooner than 15 days after posting the draft plan update on the County's Save Our Indian River Lagoon website.

Upon County Commission approval, a project or projects that deliver comparable nutrient removal benefits may be added to the listed Save Our Indian River Lagoon Project Plan or substituted for funding allocated to other projects in the same sub-lagoon. Unless otherwise agreed to by the County Commission, if a substituted project costs more than the project previously included in the Plan, the requesting partner must provide the balance of costs.

Potential recommendations include 21 project requests from the community for consideration in the 2025 Plan Update. Based on estimated load reductions and advertised cost shares for each project type, the sum of eligible new project requests amounts to $9,517,725 of Save Our Indian River Lagoon surtax funding.

Save Our Indian River Lagoon Project Applications – 2025

Table 1. Project Application Table

Project Number	Project Name	Entity	Project Type	Eligible Cost-Share Rate ($/pound TN)	Total Cost ($/pound TN)	TN Reduction (pounds/year)	Total Cost	Maximum Eligible SOIRL Cost Share	Eligible Cost Share Request	Cumulative SOIRL Funding Increase	Dollar Amount Secured Grants	Notes
264	Unincorporated Countywide Vegetation Harvesting 2	Brevard County Natural Resources	Vegetation Harvesting	$114	$114	4,147	$472,758	$472,758	$472,758	$472,758	$0	Expand aquatic vegetation harvesting program; Remove an estimated 2,750,000 pounds of plant material; purchase an amphibious excavator, rake, work boat, and nanobubble generator.
265	Restoration of native clams in the Indian River Lagoon - Titusville	Indian River Lagoon Clam Restoration Project	Clam	$172	$172	1,584	$272,000	$272,000	$272,000	$744,758	$0	Distribute clam seed via drone; Repatriate 24 million clams in the Titusville area with a target survival of 8 million reproductively capable clams.
266	Restoration of native clams in the Indian River Lagoon - Hog Point Cove	Indian River Lagoon Clam Restoration Project	Clam	$172	$172	990	$170,000	$170,000	$170,000	$914,758	$0	Distribute clam seed via drone; Repatriate 15 million clams in the Hog's Point Cove area with a target survival of 5 million reproductively capable clams.
267	Restoration of native clams in the Indian River Lagoon - Grant Island	Indian River Lagoon Clam Restoration Project	Clam	$172	$172	990	$170,000	$170,000	$170,000	$1,084,758	$0	Distribute clam seed via drone; Repatriate 15 million clams to the Grant Island area with a target survival of 5 million reproductively capable clams.
268	Restoration of native clams in the Indian River Lagoon - Rockledge	Indian River Lagoon Clam Restoration Project	Clam	$172	$172	594	$102,000	$102,000	$102,000	$1,186,758	$0	Distribute clam seed via drone; Repatriate 9 million clams to the Rockledge area with a target survival of 3 million reproductively capable clams.
269	Coleman Pond Circulator	City of Titusville	Stormwater	$357	$357	353	$126,021	$126,021	$126,021	$1,312,779	$0	Install pond circulator device in conjunction with previously installed floating wetland islands to increase nutrient uptake.
270	Tennessee St Baffle Box	City of Titusville	Stormwater	$357	$371	1,442	$535,000	$514,794	$514,794	$1,827,573	$0	Install second generation baffle box to treat 673 acres.
271	Osprey Pond Circulator	City of Titusville	Stormwater	$357	$413	242	$100,000	$86,394	$86,394	$1,913,967	$0	Install pond circulator device in conjunction with previously installed floating wetland islands to increase nutrient uptake.
272	Brevard Zoo North IRL Oyster Project 4	Brevard Zoo	Oyster	$475	$475	1,742	$827,450	$827,450	$827,450	$2,741,417	$0	Construct 43,560 square feet of oyster bars.
273	Brevard Zoo Central IRL Oyster Project 5	Brevard Zoo	Oyster	$475	$475	1,504	$714,400	$714,400	$714,400	$3,455,817	$0	Construct 37,602 square feet of oyster bars. This project is scalable.
274	Waelti Drive Pond Retrofit	Brevard County Natural Resources	Stormwater	$357	$858	274	$235,000	$97,818	$97,818	$3,553,635	$137,182	Install floating wetlands with turbidity curtains in wet pond.

Project Number	Project Name	Entity	Project Type	Eligible Cost-Share Rate ($/pound TN)	Total Cost ($/pound TN)	TN Reduction (pounds/year)	Total Cost	Maximum Eligible SOIRL Cost Share	Eligible Cost Share Request	Cumulative SOIRL Funding Increase	Dollar Amount Secured Grants	Notes
275	Lake Washington & Croton Road Pond Retrofit	Brevard County Natural Resources	Stormwater	$357	$1,253	158	$198,000	$56,406	$56,406	$3,610,041	$141,594	Install floating wetlands with turbidity curtains in wet pond.
276	N. Wickham & Conservation Place Wet Pond Retrofit	Brevard County Natural Resources	Stormwater	$357	$1,505	261	$392,925	$93,177	$93,177	$3,703,218	$221,224	Install floating wetlands with turbidity curtains in wet pond.
277	Darrow Baffle Box	City of Melbourne	Stormwater	$357	$1,589	536	$851,500	$191,352	$191,352	$3,894,570	$0	Install third-generation baffle box
278	Line Street Cemetery Baffle Box	City of Melbourne	Stormwater	$357	$2,409	770	$1,855,000	$274,890	$274,890	$4,169,460	$0	Install third-generation baffle box
279	Melbourne Cemetery Baffle Box	City of Melbourne	Stormwater	$357	$3,597	606	$2,180,000	$216,342	$216,342	$4,385,802	$0	Install third-generation baffle box
280	Westside Basin Water Quality Improvements	City of Satellite Beach	Stormwater	$409	$12,051	137	$1,650,960	$56,033	$56,033	$4,441,835	$0	Install 26 biosorption activated media tree wells, 9 BAM bioswales, and 53 inlet baskets.
281	Cocoa Isles Blvd Dry Pond	City of Cocoa Beach	Stormwater	$409	$40,714	14	$570,000	$5,726	$5,726	$4,447,561	$0	Install bioretention area enhanced with biosorption activated media and planted with Florida natives.
282	South Beaches Wastewater Treatment Plant Upgrade	Brevard County Utility Services Department	Wastewater Treatment Facility Upgrade	$431	$7,552	5,734	$43,305,079	$2,471,354	$2,471,354	$6,918,915	$14,200,000	Convert to Advanced Wastewater Treatment; Project will reduce total nitrogen concentration to 2 mg/L and total phosphorus concentration to 1 mg/L.
283	Port Saint John Wastewater Treatment Plant Replacement	Brevard County Utility Services Department	Wastewater Treatment Facility Upgrade	$431	$17,559	2,278	$40,000,000	$981,818	$981,818	$7,900,733	$0	Design new plant with Advanced Wastewater Treatment to replace the existing facility in Port Saint John. Land has not been acquired.
284	Palm Bay Septic to Sewer Conversion Project - Sewer Available Not Connected (SANC) Phase 2	City of Palm Bay	Quick Connect	$1,600	$6,998	1,011	$7,072,000	$1,616,992	$1,616,992	$9,517,725	$0	Connect up to 416 properties from septic to sewer.

Save Our Indian River Lagoon Funding Application Short Form:

Unincorporated Countywide Vegetation Harvesting 2

Project Details

Entity: Brevard County Stormwater Management

Project Type: Aquatic Vegetation Harvesting

Sub Lagoon: All

Location: Stormwater pond near Sykes Creek

Project Description: Brevard County seeks to expand its aquatic vegetation harvesting program through the acquisition of an amphibious excavator with a specialized aquatic vegetation rake, plus a second work boat with an attachment designed to harvest water lettuce and water hyacinth. Approimately $465,000 of this request is pursuant to the aforementioned acquisitions. The remaining funds will be used for sediment lab analysis and on-site monitoring equipment for a pilot nanobubble generator project at a brackish stormwater pond adjacent to Sykes Creek in order to determine quantify any resulting Total Nitrogen benefits. This request will allow the initial removal of 2,750,000 pounds of excess vegetation from stormwater management sites throughout Brevard situated within the Indian River Lagoon watershed.

Education and Outreach:

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 4,147

Total Phosphorus Reduction (lbs/year): 593

Costs

Total Project Cost: $472,758

Estimated Cost per Pound Total Nitrogen Removed: $114

Estimated Cost per Pound Total Phosphorus Removed: $797

Eligible Tax Funding Cost Share: $472,758

Project Funding

Is Local Match in Adopted Budget: No

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s):

Additional Information

Other Indian River Lagoon Benefits: For decades, management of such vegetation relied chiefly on aquatic herbicides, resulting in downstream release of sequestered nutrients and organic matter.

Notes:

Save Our Indian River Lagoon Funding Application Short Form:

Restoration of native clam communities in the Indian River Lagoon for improved water quality - Titusville

Project Details

Entity: Indian River Lagoon Clam Restoration Project

Project Type: Oyster/Clam Restoration

Sub Lagoon: North Indian River Lagoon

Location: 28.519299° -80.737211°

Project Description: The Indian River Lagoon (IRL) is in critical condition and many resource management agencies and non-profits are supporting a myriad of projects and programs to find solutions to our water quality crisis. From muck dredging to septic to sewer conversion to restoring oysters and mangroves, these projects are addressing the fundamental problem of excess nitrogen and phosphorus, however the often underestimated clam has received relatively little attention. Clams have been a significant ecological entity in the Indian River Lagoon for centuries, however, due to their life cycle and ecology, they are rarely seen unless one is looking in the sediment to find them. An estimated 9.2 billion clams were removed from the Indian River Lagoon during the 80's and 90's when little regulation was in place on open harvest of wild clams. In the early 2000's clam landings were at an all time low and the population teetered on collapse just prior to the super algal blooms of 2011 and beyond. Today, the Indian River lagoon Clam Restoration Project, a consortium of scientists, sportsmen, private businesses and conservationist are working to bring clams back in numbers that can aid in attenuating the algal blooms that keep our seagrasses from re-establishing. This group has already successfully repatriated 28 million adult clams and 13 million juvenile clams to IRL waters over the last five years. The effort invested in finding superior genetic resiliency in native hard clam varieties and the lessons learned by experimentation in out-planting these clams has provided this group with the tools and knowledge to maximize the effectiveness of restoration dollars. Similar to oyster restoration projects, this work leverages the natural life cycle of clams and their reproductive capacity to exponentially grow the effectiveness of their biofiltration activities.

This project proposes to use new clam restoration techniques that have been tested over the 20 months (Osborne et al. 2024) and have proven effective and significantly lower the cost of clam restoration activities. Using a drone, we will distribute 2-3 mm clam seed at densities needed to achieve 1 million clams per acre over sandy bottom. This technique uses no netting or other protective gear and thus reduces environmental risk while also reducing labor costs for maintaining protective gear. Overall, this technique allows us to restore clams for less than half the cost of our previous work. Seed clams will be distributed on approved grounds and monitored for the duration of the project period to quantify the survival and determine mass of

Nitrogen and Phosphorus removed from the water column. Additionally, this approach helps build ecosystem function by providing much needed energy to the lower trophic levels that in turn support healthy fisheries.

This project will repatriate 24 million clams to the Indian River Lagoon (IRL) adjacent to Titusville (Project Zone A) in the Northern IRL with a target survival of 8 million adult/reproductively capable clams. After one year these clams will be reproductively viable with spawning potential in the 100's of millions of larvae that can continue to colonize the IRL naturally. Because the portal does not allow for calculated costs for clams (oysters only) the relevent statistics are included lbs of Nitrogen removed = 1584; cost per lb of Nitrogen = $172; lbs of Phosphorus removed = 528; cost per lb of Phosphorus = $515.

Education and Outreach: We utilize a diversity of outreach strategies to educate and engage the public about the lagoon and our specific efforts to help its recovery. Through informational spots on television via Blair Wiggins Outdoors, local radio (Jim Ross Catch a Memory show), and routine lectures/presentations in public forums, scientific meetings and K-12 schools, we reached over 300,000 members of the pubic. Public outreach through social media outlets has become the premier avenue for increasing awareness about relevant Lagoon issues. Project partners, Coastal Conservation Association, University of Florida Whitney Laboratory, Lagoon Solutions, New Swell Mangrove and Shoreline Restoration, Florida Oceanographic Society, and several others leveraged social media platforms to reach over 500,000 people last year concerning clam restoration. Outreach through tv and print based news media has also been impactful with numbers of viewers estimated to be in excess of 10 million last year. We will continue these efforts in the years to come as a part of our project performance.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 1,584

Total Phosphorus Reduction (lbs/year): 528

Costs

Total Project Cost: $272,000

Estimated Cost per Pound Total Nitrogen Removed: $172

Estimated Cost per Pound Total Phosphorus Removed: $515

Eligible Tax Funding Cost Share: $272,000

Project Funding

Is Local Match in Adopted Budget:

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s): A $2,000,000 grant has been secured to start this project and offset hatchery and labor costs.

Additional Information

Other Indian River Lagoon Benefits: Seagrasses and clams exhibit a mutually beneficial relationship when grown together. Clams provide nutrients directly to the rooting zone of seagrasses and also alleviate sulfide stress from anaerobic sediments. Seagrass health and performance increases with presence of clams.

Juvenile clams also benefit the complex food web of the IRL estuary. While attrition is natural in shellfish beds, we see benefit from this predation by crabs and fish which then supplies higher trophic levels with a food source ultimately providing lift to the entire ecosystem.

Beyond Nitrogen and Phosphorus removal, the ability to reduce turbidity in the water column is tremendously helpful to catalyze seagrass return. Further, the constant removal of algal biomass can further reduce available nutrients in these areas as filtration process couples algal particles with the sediment, effectively slowing the nutrient recycling process. Five million clams filter fifty million gallons of water per day!

Projecting this project out five years suggests 128 million clams sequestering 115,200 kilograms of Nitrogen and 3,840 kilograms of P while filtering over 1 trillion gallons of water per day!

Notes:

Save Our Indian River Lagoon Funding Application Short Form:

Restoration of native clam communities in the Indian River Lagoon for improved water quality - Hog Point Cove

Project Details

Entity: Indian River Lagoon Clam Restoration Project

Project Type: Oyster/Clam Restoration

Sub Lagoon: Central Indian River Lagoon

Location: 27.997808° -80.527443°

Project Description: The Indian River Lagoon (IRL) is in critical condition and many resource management agencies and non-profits are supporting a myriad of projects and programs to find solutions to our water quality crisis. From muck dredging to septic to sewer conversion to restoring oysters and mangroves, these projects are addressing the fundamental problem of excess nitrogen and phosphorus, however the often underestimated clam has received relatively little attention. Clams have been a significant ecological entity in the Indian River Lagoon for centuries, however, due to their life cycle and ecology, they are rarely seen unless one is looking in the sediment to find them. An estimated 9.2 billion clams were removed from the Indian River Lagoon during the 80's and 90's when little regulation was in place on open harvest of wild clams. In the early 2000's clam landings were at an all time low and the population teetered on collapse just prior to the super algal blooms of 2011 and beyond. Today, the Indian River lagoon Clam Restoration Project, a consortium of scientists, sportsmen, private businesses and conservationist are working to bring clams back in numbers that can aid in attenuating the algal blooms that keep our seagrasses from re-establishing. This group has already successfully repatriated 28 million adult clams and 13 million juvenile clams to IRL waters over the last five years. The effort invested in finding superior genetic resiliency in native hard clam varieties and the lessons learned by experimentation in out-planting these clams has provided this group with the tools and knowledge to maximize the effectiveness of restoration dollars. Similar to oyster restoration projects, this work leverages the natural life cycle of clams and their reproductive capacity to exponentially grow the effectiveness of their biofiltration activities.

This project proposes to use new clam restoration techniques that have been tested over the 20 months (Osborne et al. 2024) and have proven effective and significantly lower the cost of clam restoration activities. Using a drone, we will distribute 2-3 mm clam seed at densities needed to achieve 1 million clams per acre over sandy bottom. This technique uses no netting or other protective gear and thus reduces environmental risk while also reducing labor costs for maintaining protective gear. Overall, this technique allows us to restore clams for less than half the cost of our previous work. Seed clams will be distributed on approved grounds and monitored for the duration of the project period to quantify the survival and determine mass of

Nitrogen and Phosphorus removed from the water column. Additionally, this approach helps build ecosystem function by providing much needed energy to the lower trophic levels that in turn support healthy fisheries.

This project will repatriate 15 million clams to the Indian River Lagoon (IRL) in Hog's Point Cove in the Central IRL with a target survival of 5 million adult/reproductively capable clams. After one year these clams will be reproductively viable with spawning potential in the 100's of millions of larvae that can continue to colonize the IRL naturally. Because the portal does not allow entry of calculated numbers (clams are different from oysters) they are provided here lbs of Nitrogen removed = 990; cost per lb of Nitrogen = $172; lbs of Phosphorus removed = 330; cost per lb of Phosphorus = $515.

Education and Outreach: We utilize a diversity of outreach strategies to educate and engage the public about the lagoon and our specific efforts to help its recovery. Through informational spots on television via Blair Wiggins Outdoors, local radio (Jim Ross Catch a Memory show), and routine lectures/ presentations in public forums, scientific meetings and K-12 schools, we reached over 300,000 members of the pubic. Public outreach through social media outlets has become the premier avenue for increasing awareness about relevant Lagoon issues. Project partners, Coastal Conservation Association, University of Florida Whitney Laboratory, Lagoon Solutions, New Swell Mangrove and Shoreline Restoration, Florida Oceanographic Society, and several others leveraged social media platforms to reach over 500,000 people last year concerning clam restoration. Outreach through tv and print based news media has also been impactful with numbers of viewers estimated to be in excess of 10 million last year. We will continue these efforts in the years to come as a part of our project performance.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 990

Total Phosphorus Reduction (lbs/year): 330

Costs

Total Project Cost: $170,000

Estimated Cost per Pound Total Nitrogen Removed: $172

Estimated Cost per Pound Total Phosphorus Removed: $515

Eligible Tax Funding Cost Share: $170,000

Project Funding

Is Local Match in Adopted Budget:

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s): A $2,000,000 grant has been secured to start this project and offset hatchery and labor costs.

Additional Information

Other Indian River Lagoon Benefits: Seagrasses and clams exhibit a mutually beneficial relationship when grown together. Clams provide nutrients directly to the rooting zone of seagrasses and also alleviate sulfide stress from anaerobic sediments. Seagrass health and performance increases with presence of clams.

Juvenile clams also benefit the complex food web of the IRL estuary. While attrition is natural in shellfish beds, we see benefit from this predation by crabs and fish which then supplies higher trophic levels with a food source ultimately providing lift to the entire ecosystem.

Beyond Nitrogen and Phosphorus removal, the ability to reduce turbidity in the water column is tremendously helpful to catalyze seagrass return. Further, the constant removal of algal biomass can further reduce available nutrients in these areas as filtration process couples algal particles with the sediment, effectively slowing the nutrient recycling process. Five million clams filter fifty million gallons of water per day!

Notes:

Save Our Indian River Lagoon Funding Application Short Form:

Restoration of native clam communities in the Indian River Lagoon for improved water quality - Grant Island

Project Details

Entity: Indian River Lagoon Clam Restoration Project

Project Type: Oyster/Clam Restoration

Sub Lagoon: Central Indian River Lagoon

Location: 27.925064° -80.506793° (on state aquaculture lease owned by Blair Wiggins)

Project Description: The Indian River Lagoon (IRL) is in critical condition and many resource management agencies and non-profits are supporting a myriad of projects and programs to find solutions to our water quality crisis. From muck dredging to septic to sewer conversion to restoring oysters and mangroves, these projects are addressing the fundamental problem of excess nitrogen and phosphorus, however the often underestimated clam has received relatively little attention. Clams have been a significant ecological entity in the Indian River Lagoon for centuries, however, due to their life cycle and ecology, they are rarely seen unless one is looking in the sediment to find them. An estimated 9.2 billion clams were removed from the IRL during the 80's and 90's when little regulation was in place on open harvest of wild clams. In the early 2000's clam landings were at an all time low and the population teetered on collapse just prior to the super algal blooms of 2011 and beyond. Today, the Indian River lagoon Clam Restoration Project, a consortium of scientists, sportsmen, private businesses and conservationist are working to bring clams back in numbers that can aid in attenuating the algal blooms that keep our seagrasses from re-establishing. This group has already successfully repatriated 28 million adult clams and 13 million juvenile clams to IRL waters over the last five years. The effort invested in finding superior genetic resiliency in native hard clam varieties and the lessons learned by experimentation in out-planting these clams has provided this group with the tools and knowledge to maximize the effectiveness of restoration dollars. Similar to oyster restoration projects, this work leverages the natural life cycle of clams and their reproductive capacity to exponentially grow the effectiveness of their biofiltration activities.

This project proposes to use new clam restoration techniques that have been tested over the 20 months (Osborne et al. 2024) and have proven effective and significantly lower the cost of clam restoration activities. Using a drone, we will distribute 2-3 mm clam seed at densities needed to achieve 1 million clams per acre over sandy bottom. This technique uses no netting or other protective gear and thus reduces environmental risk while also reducing labor costs for maintaining protective gear. Overall, this technique allows us to restore clams for less than half the cost of our previous work. Seed clams will be distributed on approved grounds and monitored for the duration of the project period to quantify the survival and determine mass of Nitrogen and Phosphorus removed from the water column. Additionally, this approach helps

build ecosystem function by providing much needed energy to the lower trophic levels that in turn support healthy fisheries.

This project will repatriate 15 million clams to the Indian River Lagoon (IRL) adjacent to Grant Island in the Central IRL with a target survival of 5 million adult/reproductively capable clams. After one year these clams will be reproductively viable with spawning potential in the 100's of millions of larvae that can continue to colonize the IRL naturally. Because the online submission does not allow for entering the specific N and P data (self calculated for oysters only), it is included here lbs of Nitrogen removed = 990; cost per lb of Nitrogen =$172; lbs of Phosphorus removed = 330 cost per lb of Phosphorus = $515.

Education and Outreach: We utilize a diversity of outreach strategies to educate and engage the public about the lagoon and our specific efforts to help its recovery. Through informational spots on television via Blair Wiggins Outdoors, local radio (Jim Ross Catch a Memory show), and routine lectures/ presentations in public forums, scientific meetings and K-12 schools, we reached over 300,000 members of the pubic. Public outreach through social media outlets has become the premier avenue for increasing awareness about relevant Lagoon issues. Project partners, Coastal Conservation Association, University of Florida Whitney Laboratory, Lagoon Solutions, New Swell Mangrove and Shoreline Restoration, Florida Oceanographic Society, and several others leveraged social media platforms to reach over 700,000 people last year concerning clam restoration. Outreach through tv and print based news media has also been impactful with numbers of viewers estimated to be in excess of 10 million last year. We will continue these efforts in the years to come as a part of our project performance.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 990

Total Phosphorus Reduction (lbs/year): 330

Costs

Total Project Cost: $170,000

Estimated Cost per Pound Total Nitrogen Removed: $172

Estimated Cost per Pound Total Phosphorus Removed: $515

Eligible Tax Funding Cost Share: $170,000

Project Funding

Is Local Match in Adopted Budget:

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s): A $2,000,000 grant has been secured to start this project and offset hatchery and labor costs.

Additional Information

Other Indian River Lagoon Benefits: Seagrasses and clams exhibit a mutually beneficial relationship when grown together. Clams provide nutrients directly to the rooting zone of seagrasses and also alleviate sulfide stress from anaerobic sediments. Seagrass health and performance increases with presence of clams.

Juvenile clams also benefit the complex food web of the IRL estuary. While attrition is natural in shellfish beds, we see benefit from this predation by crabs and fish which then supplies higher trophic levels with a food source ultimately providing lift to the entire ecosystem.

Beyond Nitrogen and Phosphorus removal, the ability to reduce turbidity in the water column is tremendously helpful to catalyze seagrass return. Further, the constant removal of algal biomass can further reduce available nutrients in these areas as filtration process couples algal particles with the sediment, effectively slowing the nutrient recycling process. Five million clams filter fifty million gallons of water per day!

Notes:

Save Our Indian River Lagoon Funding Application Short Form:

Restoration of native clam communities in the Indian River Lagoon for improved water quality - Rockledge

Project Details

Entity: Indian River Lagoon Clam Restoration Project

Project Type: Oyster/Clam Restoration

Sub Lagoon: North Indian River Lagoon

Location: 28.231322° -80.671708° 6485 south US-1, Rockledge, FL 32955

Project Description: The Indian River Lagoon (IRL) is in critical condition and many resource management agencies and non-profits are supporting a myriad of projects and programs to find solutions to our water quality crisis. From muck dredging to septic to sewer conversion to restoring oysters and mangroves, these projects are addressing the fundamental problem of excess nitrogen and phosphorus, however the often underestimated clam has received relatively little attention. Clams have been a significant ecological entity in the Indian River Lagoon for centuries, however, due to their life cycle and ecology, they are rarely seen unless one is looking in the sediment to find them. An estimated 9.2 billion clams were removed from the IRL during the 80's and 90's when little regulation was in place on open harvest of wild clams. In the early 2000's clam landings were at an all time low and the population teetered on collapse just prior to the super algal blooms of 2011 and beyond. Today, the Indian River lagoon Clam Restoration Project, a consortium of scientists, sportsmen, private businesses and conservationist are working to bring clams back in numbers that can aid in attenuating the algal blooms that keep our seagrasses from re-establishing. This group has already successfully repatriated 28 million adult clams and 13 million juvenile clams to IRL waters over the last five years. The effort invested in finding superior genetic resiliency in native hard clam varieties and the lessons learned by experimentation in out-planting these clams has provided this group with the tools and knowledge to maximize the effectiveness of restoration dollars. Similar to oyster restoration projects, this work leverages the natural life cycle of clams and their reproductive capacity to exponentially grow the effectiveness of their biofiltration activities.

This project proposes to use new clam restoration techniques that have been tested over the 20 months (Osborne et al. 2024) and have proven effective and significantly lower the cost of clam restoration activities. Using a drone, we will distribute 2-3mm clam seed at densities needed to achieve 1 million clams per acre over sandy bottom. This technique uses no netting or other protective gear and thus reduces environmental risk while also reducing labor costs for maintaining protective gear. Overall, this technique allows us to restore clams for less than half the cost of our previous work. Seed clams will be distributed on approved grounds and monitored for the duration of the project period to quantify the survival and determine mass of N and P removed from the water column. Additionally, this approach helps build ecosystem

function by providing much needed energy to the lower trophic levels that in turn support healthy fisheries.

This project will repatriate 9 mil clams to the Indian River Lagoon (IRL) in the Rockledge area (Project zone B) in the Northern IRL with a target survival of 3 mil adult/ reproductively capable clams. After one year these clams will be reproductively viable with spawning potential in the 100's of millions of larvae that can continue to colonize the IRL naturally. Because the portal does not allow for calculated costs for clams (oysters only) the relevant statistics are included lbs of Nitrogen removed = 594; cost per lb of Nitrogen = $172; lbs of Phosphorus removed = 198, cost per lb of Phosphorus = $515.

Education and Outreach: We utilize a diversity of outreach strategies to educate and engage the public about the lagoon and our specific efforts to help its recovery. Through informational spots on television via Blair Wiggins Outdoors, local radio (Jim Ross Catch a Memory show), and routine lectures/ presentations in public forums, scientific meetings and K-12 schools, we reached over 300,000 members of the pubic. Public outreach through social media outlets has become the premier avenue for increasing awareness about relevant Lagoon issues. Project partners, Coastal Conservation Association, University of Florida Whitney Laboratory, Lagoon Solutions, New Swell Mangrove and Shoreline Restoration, Florida Oceanographic Society, and several others leveraged social media platforms to reach over 500,000 people last year concerning clam restoration. Outreach through tv and print based news media has also been impactful with numbers of viewers estimated to be in excess of 10 million last year. We will continue these efforts in the years to come as a part of our project performance.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 594

Total Phosphorus Reduction (lbs/year): 198

Costs

Total Project Cost: $102,000

Estimated Cost per Pound Total Nitrogen Removed: $172

Estimated Cost per Pound Total Phosphorus Removed: $515

Eligible Tax Funding Cost Share: $102,000

Project Funding

Is Local Match in Adopted Budget:

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s): A $2,000,000 grant has been secured to start this project and offset hatchery and labor costs.

Additional Information

Other Indian River Lagoon Benefits: Seagrasses and clams exhibit a mutually beneficial relationship when grown together. Clams provide nutrients directly to the rooting zone of seagrasses and also alleviate sulfide stress from anaerobic sediments. Seagrass health and performance increases with presence of clams.

Juvenile clams also benefit the complex food web of the IRL estuary. While attrition is natural in shellfish beds, we see benefit from this predation by crabs and fish which then supplies higher trophic levels with a food source ultimately providing lift to the entire ecosystem.

Beyond Nitrogen and Phosphorus removal, the ability to reduce turbidity in the water column is tremendously helpful to catalyze seagrass return. Further, the constant removal of algal biomass can further reduce available nutrients in these areas as filtration process couples algal particles with the sediment, effectively slowing the nutrient recycling process. Three million clams filter thirty million gallons of water per day!

Five year growth of clam population suggest after 5 years there could be 48 million clams, sequestering 4,320 lbs of Nitrogen and 1,440 lbs of Phosphorus all while filtering 480 million gallons of water!

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **Coleman Pond Circulator**

Project Details

Entity: City of Titusville

Project Type: Stormwater

Sub Lagoon: North Indian River Lagoon

Location: 28.630326; -80.826648

Project Description: Installation of a pond circulator device in conjunction with already installed floating wetland islands. This project will install a pond circulator to increase the nutrient uptake by 10% as shown in Brevard County's pilot study.

Education and Outreach:

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 353

Total Phosphorus Reduction (lbs/year): 55

Costs

Total Project Cost: $126,021

Estimated Cost per Pound Total Nitrogen Removed: $357

Estimated Cost per Pound Total Phosphorus Removed: $2,291

Eligible Tax Funding Cost Share: $126,021

Project Funding

Is Local Match in Adopted Budget: No

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s):

Additional Information

Other Indian River Lagoon Benefits:

Notes:

Save Our Indian River Lagoon Funding Application Short Form:

Tennessee St Baffle Box

Project Details

Entity: City of Titusville

Project Type: Stormwater

Sub Lagoon: North Indian River Lagoon

Location: 28.629917, -80.827499; Tennessee St & Georgia Ave

Project Description: Installation of a second generation baffle box fitted with nutrient reducing biosorption filtration media at Tennessee St within the Chain of Lakes Basin. This baffle box will treat 673 acres of highly developed land prior to the water discharging into the Indian River Lagoon. This project will remove 1,442 lbs/year of total nitrogen and 191 lbs/year of total phosphorus.

Education and Outreach:

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 1,442

Total Phosphorus Reduction (lbs/year): 191

Costs

Total Project Cost: $535,000

Estimated Cost per Pound Total Nitrogen Removed: $371

Estimated Cost per Pound Total Phosphorus Removed: $2,801

Eligible Tax Funding Cost Share: $514,794

Project Funding

Is Local Match in Adopted Budget: No

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s):

Additional Information

Other Indian River Lagoon Benefits:

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **Osprey Pond Circulator**

Project Details

Entity: City of Titusville

Project Type: Stormwater

Sub Lagoon: North Indian River Lagoon

Location: 28.622834; -0.814727

Project Description: Installation of a pond circulator device in conjunction with already installed floating wetland islands. This project will install a pond circulator to increase the nutrient uptake by 10% as shown in Brevard County's pilot study.

Education and Outreach:

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 242

Total Phosphorus Reduction (lbs/year): 35

Costs

Total Project Cost: $100,000

Estimated Cost per Pound Total Nitrogen Removed: $413

Estimated Cost per Pound Total Phosphorus Removed: $2,857

Eligible Tax Funding Cost Share: $86,394

Project Funding

Is Local Match in Adopted Budget: No

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s):

Additional Information

Other Indian River Lagoon Benefits:

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **Brevard Zoo North IRL Oyster Project 4**

Project Details

Entity: Brevard Zoo

Project Type: Oyster/Clam Restoration

Sub Lagoon: North Indian River Lagoon

Location: Proposed sites, substitutions will be selected as needed: 28.156461454678997, -80.63919330062829; 28.15969103679429, -80.64063024338961; 28.106605990843182, -80.61494431751252; 28.101114473501195, -80.61239488218364

Project Description: Brevard Zoo intends to construct 43,560 square feet of oyster projects in the North Basin of the Indian River Lagoon. The designs will be site specific and will be approved by the County before construction begins. We will consult with the County to determine whether or not live oysters need to be added to each specific location.

Education and Outreach: Brevard Zoo regularly engages the community in restoration efforts and education. We attend community events, hold presentations in schools, host volunteer opportunities and bring people into the Zoo to learn about the state of the lagoon and current conservation efforts, including oyster projects. We are not asking for any additional funding to continue this effort.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 1,742

Total Phosphorus Reduction (lbs/year): 44

Costs

Total Project Cost: $827,450

Estimated Cost per Pound Total Nitrogen Removed: $475

Estimated Cost per Pound Total Phosphorus Removed: $18,806

Eligible Tax Funding Cost Share: $827,450

Project Funding

Is Local Match in Adopted Budget: No

Dollar Amount of Local Cost Share: $0

Dollar Amount Secured Grant(s): $0

Additional Information

Other Indian River Lagoon Benefits: Oyster reef installations not only reduce nutrients, but they also support hundreds of species in the Indian River Lagoon, including many fish and crab species.

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **Brevard Zoo Central IRL Oyster Project 5**

Project Details

Entity: Brevard Zoo

Project Type: Oyster/Clam Restoration

Sub Lagoon: Central Indian River Lagoon

Location: Proposed sites, substitutions will be selected as needed: 27.9700325618981, -80.54414975969682; 27.967937252575382, -80.54275771368124; 27.83845550179957, -80.49711947985077

Project Description: Brevard Zoo intends to construct 37,602 square feet of oyster projects in the Central Basin of the Indian River Lagoon (IRL) . This project is scalable. The design will be site specific and will be approved by the County before construction begins. We will consult with the County to determine whether or not live oysters need to be added to each specific location.

Education and Outreach: Brevard Zoo regularly engages the community in restoration efforts and education. We attend community events, hold presentations in schools, host volunteer opportunities and bring people into the Zoo to learn about the state of the lagoon and current conservation efforts, including oyster projects. We are not asking for any additional funding to continue this effort.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 1,504

Total Phosphorus Reduction (lbs/year): 38

Costs

Total Project Cost: $714,400

Estimated Cost per Pound Total Nitrogen Removed: $475

Estimated Cost per Pound Total Phosphorus Removed: $18,800

Eligible Tax Funding Cost Share: $714,400

Project Funding

Is Local Match in Adopted Budget: No

Dollar Amount of Local Cost Share: $0

Dollar Amount Secured Grant(s): $0

Additional Information

Other Indian River Lagoon Benefits: Oyster reef installations not only reduce nutrients, but they also support hundreds of species in the IRL, including many species of fish and crabs.

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **Waelti Drive Pond Retrofit**

Project Details

Entity: Brevard County Natural Resources

Project Type: Stormwater

Sub Lagoon: North Indian River Lagoon

Location: 28°13'53.2"N 80°40'38.7"W

Project Description: The proposed stormwater retrofit to the Waelti Drive wet pond utilizes the Martin Treatment Wetland System paired with turbidity curtains to optimize nutrient removal. The Floating Treatment Wetlands provides an additional 12% removal of total phosphorus and total nitrogen in existing wet detention pond and is designed to have a durable eight-inch platform for plants and root protection. The root zone and media produced from the Floating Treatment Wetlands creates habitat for Periphyton which successfully removes harmful nutrients such as phosphorus and nitrogen from stormwater. In addition, these floating treatment wetlands will act as hangers for the turbidity curtains. The Floating Treatment Wetlands paired with the turbidity curtains would act as baffles in the wet pond to increase the ponds flow path. The extended flow path will result in increased volumetric utilization and residence time to enhance nutrient removal. Wet ponds main source of nutrient removal is sediment settling, and pollutant uptake, through biological activity in the pond. With this system in place the total removal of nitrogen and phosphorus in the pond will increase by 27%.

Education and Outreach: N/A

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 274

Total Phosphorus Reduction (lbs/year): 40

Costs

Total Project Cost: $235,000

Estimated Cost per Pound Total Nitrogen Removed: $858

Estimated Cost per Pound Total Phosphorus Removed: $5,875

Eligible Tax Funding Cost Share: $97,818

Project Funding

Is Local Match in Adopted Budget: Yes

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s): $137,182

Additional Information

Other Indian River Lagoon Benefits:

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **Lake Washington & Croton Road Pond Retrofit**

Project Details

Entity: Brevard County Natural Resources

Project Type: Stormwater

Sub Lagoon: North Indian River Lagoon

Location: 28° 8'50.29"N 80°39'13.87"W

Project Description: The proposed stormwater retrofit to the Lake Washington and Croton Road wet pond utilizes the Martin Treatment Wetland System paired with turbidity curtains to optimize nutrient removal. The Floating Treatment Wetlands provides an additional 12% removal of total phosphorus and total nitrogen in existing wet detention pond and is designed to have a durable eight-inch platform for plants and root protection. The root zone and media produced from the Floating Treatment Wetlands creates habitat for Periphyton which successfully removes harmful nutrients such as phosphorus and nitrogen from stormwater. In addition, these floating treatment wetlands will act as hangers for the turbidity curtains. The Floating Treatment Wetlands paired with the turbidity curtains would act as baffles in the wet pond to increase the ponds flow path. The extended flow path will result in increased volumetric utilization and residence time to enhance nutrient removal. Wet ponds main source of nutrient removal is sediment settling, and pollutant uptake, through biological activity in the pond. With this system in place the total removal of nitrogen and phosphorus in the pond will increase by 27%.

Education and Outreach: N/A

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 158

Total Phosphorus Reduction (lbs/year): 24

Costs

Total Project Cost: $198,000

Estimated Cost per Pound Total Nitrogen Removed: $1,253

Estimated Cost per Pound Total Phosphorus Removed: $8,250

Eligible Tax Funding Cost Share: $56,406

Project Funding

Is Local Match in Adopted Budget: Yes

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s): $143,594

Additional Information

Other Indian River Lagoon Benefits:

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **N. Wickham & Conservation Place Wet Pond Retrofit**

Project Details

Entity: Brevard County Natural Resources

Project Type: Stormwater

Sub Lagoon: North Indian River Lagoon

Location: 28°10'42.03"N 80°40'21.33"W

Project Description: The proposed stormwater retrofit to the N. Wickham & Conservation Place Wet Pond wet pond utilizes the Martin Treatment Wetland System paired with turbidity curtains to optimize nutrient removal. The Floating Treatment Wetlands provides an additional 12% removal of total phosphorus and total nitrogen in existing wet detention pond and is designed to have a durable eight-inch platform for plants and root protection. The root zone and media produced from the Floating Treatment Wetlands creates habitat for Periphyton which successfully removes harmful nutrients such as phosphorus and nitrogen from stormwater. In addition, these floating treatment wetlands will act as hangers for the turbidity curtains. The Floating Treatment Wetlands paired with the turbidity curtains would act as baffles in the wet pond to increase the ponds flow path. The extended flow path will result in increased volumetric utilization and residence time to enhance nutrient removal. Wet ponds main source of nutrient removal is sediment settling, and pollutant uptake, through biological activity in the pond. With this system in place the total removal of nitrogen and phosphorus in the pond will increase by 27%.

Education and Outreach: N/A

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 261

Total Phosphorus Reduction (lbs/year): 38

Costs

Total Project Cost: $392,925

Estimated Cost per Pound Total Nitrogen Removed: $1,505

Estimated Cost per Pound Total Phosphorus Removed: $10,340

Eligible Tax Funding Cost Share: $93,177

Project Funding

Is Local Match in Adopted Budget: Yes

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s): $219,224

Additional Information

Other Indian River Lagoon Benefits:

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **Darrow Baffle Box**

Project Details

Entity: City of Melbourne

Project Type: Stormwater

Sub Lagoon: Central Indian River Lagoon

Location: 28.071582, -80.614863

Project Description: Installation of a third generation baffle box near the Darrow Avenue in south Melbourne to serve a drainage basin to be finalized during design. This baffle box will be on a drainage ditch collection runoff that outfalls to Crane Creek and then into the Indian River Lagoon. The basin is mostly made up of a variety of very old residential uses. This basin has little to no stormwater treatment and this baffle box will provide treatment where there is none. This project shall be funded for design in FY26 with construction scheduled for FY27. If grant funding becomes available, the project would be accelerated.

Education and Outreach: A flyer explaining what a baffle box is and how it works will be sent to the residents within the basin.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 536

Total Phosphorus Reduction (lbs/year): 87

Costs

Total Project Cost: $851,500

Estimated Cost per Pound Total Nitrogen Removed: $1,589

Estimated Cost per Pound Total Phosphorus Removed: $9,787

Eligible Tax Funding Cost Share: $191,352

Project Funding

Is Local Match in Adopted Budget: Yes

Dollar Amount of Local Cost Share: $660,148

Dollar Amount Secured Grant(s):

Additional Information

Other Indian River Lagoon Benefits: The baffle box will remove sediment and trash from the system.

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **Line Street Cemetery Baffle Box**

Project Details

Entity: City of Melbourne

Project Type: Stormwater

Sub Lagoon: Central Indian River Lagoon

Location: 28.07168846957472, -80.6077372837633

Project Description: Installation of a third generation baffle box near the Line Street Cemetery in south Melbourne to serve a drainage basin to be finalized during design. This baffle box will be on a drainage ditch collection runoff that outfalls to Crane Creek and then into the Indian River Lagoon. The basin is mostly made up of a variety of very old residential uses. This basin has little to no stormwater treatment and this baffle box will provide treatment where their is none. This project shall be funded for design in FY26 with construction scheduled for FY27. If grant funding becomes available, the project would be accelerated.

Education and Outreach: A flyer explaining what a baffle box is and how it works will be sent to the residents within the basin. An informational sign will be installed at the project adjacent to the City historical cemetery.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 770

Total Phosphorus Reduction (lbs/year): 122

Costs

Total Project Cost: $1,855,000

Estimated Cost per Pound Total Nitrogen Removed: $2,409

Estimated Cost per Pound Total Phosphorus Removed: $15,205

Eligible Tax Funding Cost Share: $274,890

Project Funding

Is Local Match in Adopted Budget: Yes

Dollar Amount of Local Cost Share: $505,110

Dollar Amount Secured Grant(s):

Additional Information

Other Indian River Lagoon Benefits: The baffle box will remove sediment and trash from the system.

Notes:

Save Our Indian River Lagoon Funding Application Short Form:

Melbourne Cemetery Baffle Box

Project Details

Entity: City of Melbourne

Project Type: Stormwater

Sub Lagoon: North Indian River Lagoon

Location: 28.085502642934607, -80.61048527753879

Project Description: Installation of a third generation baffle box near the Melbourne Cemetery to serve a drainage basin to be finalized during design. This baffle box will be on a drainage ditch collection runoff that outfalls to the Indian River Lagoon. The basin is mostly made up of a variety of very old residential, commercial and institutional uses. This basin has little to no stormwater treatment and this baffle box will provide treatment where their is none. This project shall be funded for design in FY27 with construction scheduled for FY28. If grant funding becomes available, the project would be accelerated.

Education and Outreach: A flyer explaining what a baffle box is and how it works will be sent to the residents within the basin. An informational sign will be installed at the Civic Center across the street from the Cemetery. This will allow for a large audience to see the sign.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 606

Total Phosphorus Reduction (lbs/year): 105

Costs

Total Project Cost: $2,180,000

Estimated Cost per Pound Total Nitrogen Removed: $3,597

Estimated Cost per Pound Total Phosphorus Removed: $20,762

Eligible Tax Funding Cost Share: $216,342

Project Funding

Is Local Match in Adopted Budget: Yes

Dollar Amount of Local Cost Share: $1,783,658

Dollar Amount Secured Grant(s):

Additional Information

Other Indian River Lagoon Benefits: The baffle box will remove sediment and trash from the system.

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **Westside Basin Water Quality Improvements**

Project Details

Entity: City of Satellite Beach

Project Type: Stormwater

Sub Lagoon: Banana River

Location: 28.179416201697197, -80.60808695159598

Project Description: Satellite Beach is addressing stormwater management in 66 acres of its 119-acre Westside Basin. The developed residential and commercial area lacks treatment, with many small basins draining through individual outfalls. To improve water quality, stormwater will flow into 26 tree wells with biosorption activated media (BAM) filters placed at key stormwater inlets. Moreover, 9 BAM-lined bioswales draining 18 sub-basins will be installed upstream. Lastly, 53 inlet baskets will be installed to capture 5 tons of debris and sediment (muck contributors) annually. All best management practices (BMPs) will enhance removal of Total Nitrogen and Total Phosphorus from stormwater flows into the Banana River Lagoon.

Education and Outreach: The construction of a water quality improvement project in the Westside Basin represents a crucial effort to enhance the ecological health of the Banana River Lagoon. This initiative specifically targets the reduction of nitrogen and phosphorous levels, which are significant pollutants affecting water quality and marine life in the lagoon. To ensure the success of this project and encourage community involvement, comprehensive public outreach efforts will be implemented.

Key messages of the outreach campaign will focus on educating the public about how the Westside Basin Water Quality Improvements project intends to remove nitrogen and phosphorous from the lagoon through green infrastructure, thereby improving water quality and restoring ecosystem balance. Additionally, the campaign will emphasize the impact of individual actions on water quality in the lagoon, including proper waste management and litter control. It will also highlight the direct benefits of improved water quality on marine habitats, recreational activities, and the overall health of the fragile Banana River Lagoon ecosystem. The community will also be educated on the role of nutrients in algal blooms and seagrass health.

The target audience for these outreach efforts includes residents, commercial business owners, and the community at large. They will directly receive information through workshops and the distribution of door-to-door educational materials. These efforts will encourage the community to adopt responsible practices such as proper fertilizer use and minimizing stormwater runoff.

The outreach strategy will employ a multi-channel approach, leveraging traditional media such as newsletters and brochures alongside digital platforms like social media and the city website to reach diverse audiences effectively. Continuous engagement will be maintained through ongoing project updates, success stories, and interactive Question and Answer sessions to address community concerns and gather feedback. Regular evaluation of the outreach efforts will ensure their effectiveness, allowing for adjustments to strategies as necessary to maximize engagement and understanding among all stakeholders.

In conclusion, through robust public outreach efforts, the City aims to empower residents, businesses, and stakeholders to actively participate in and support the water quality improvement project in the Banana River Lagoon. By fostering a shared understanding of the project's goals and benefits, the City and the community can work together to achieve sustainable environmental stewardship and preserve natural resources.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 137

Total Phosphorus Reduction (lbs/year): 24

Costs

Total Project Cost: $1,650,960

Estimated Cost per Pound Total Nitrogen Removed: $12,051

Estimated Cost per Pound Total Phosphorus Removed: $68,790

Eligible Tax Funding Cost Share: $56,033

Project Funding

Is Local Match in Adopted Budget: No

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s):

Additional Information

Other Indian River Lagoon Benefits: The biosorption activate media (BAM) material utilized in bioswales and tree wells can remove up to 90% of bacteria from stormwater flows to the Indian River Lagoon. The project also identifies 53 locations for the installation of inlet baskets. These baskets are designed to capture and retain vegetative debris, sediments, and other particulate matter that would otherwise flow unchecked into the lagoon, exacerbating its nutrient imbalance and contributing to the accumulation of nutrient-laden muck. This muck, composed of clay, sand, silt, minerals, and decaying organic matter, not only compromises water clarity and oxygen levels but also hinders the growth of seagrasses and fosters conditions conducive to harmful algal blooms. According to the Florida Stormwater Association Municpal Separate

Storm Sewer System (MS4) Load Reduction Assessment Tool, the baskets also remove a small amount of Total Nitrogen and Total Phosphorus contained within the sediment and debris.

Furthermore, baskets prevent unsightly plastic-containing litter that contributes to microplastics from entering the lagoon. Studies show high levels of microplastics in the surface water and shellfish species. While the full extent of microplastic impacts to human health and the environment are still being examined, research has demonstrated that microorganisms ingest microplastics when they mistake them for food, resulting in bioaccumulation in the lagoon fauna tissues over time. This may impact Indian River Lagoon fisheries, which are estimated to generate $30 million in annual revenue for the region. Microplastics can also transport pollutants and are durable and resistant to degradation, perpetually persisting in the environment.

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **Cocoa Isles Blvd Dry Pond**

Project Details

Entity: City of Cocoa Beach

Project Type: Stormwater

Sub Lagoon: Banana River

Location: 28.32951676142842, -80.61643602498961

Project Description: There is a small area at the end of Cocoa isles Blvd to install a bioretention area to treat and infiltrate runoff from a low-density residential area. Treatment will be enhanced by lining the retention area with bioactivated media (BAM) and planted with Florida native plants. This system greatly reduces nutrient/pollutant loading to the receiving water while also protecting the barrier island's surficial aquifer. This project will benefit the Banana River Lagoon and this project is being implemented to reduce the pollutant load.

Education and Outreach: The target audience is the residents and visitors of Cocoa Beach. The City will post about the improvements and benefits of the bioretention area to the Banana River Lagoon and aquifer on the City's website and social media pages.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 14

Total Phosphorus Reduction (lbs/year): 2

Costs

Total Project Cost: $570,000

Estimated Cost per Pound Total Nitrogen Removed: $40,714

Estimated Cost per Pound Total Phosphorus Removed: $285,000

Eligible Tax Funding Cost Share: $5,726

Project Funding

Is Local Match in Adopted Budget: Yes

Dollar Amount of Local Cost Share:

Dollar Amount Secured Grant(s):

Additional Information

Other Indian River Lagoon Benefits: The project is about to go into the design phase and at that point BMPTrains will be used to determine the Total Nitrogen and Total Phosphorus reductions.

Based on the City's Stormwater Master Plan, it is estimated that 14.33 lbs/year of Total Nitrogen and 2.26 lbs/year of Total Phosphorus will be removed.

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **South Beaches Wastewater Treatment Plant Upgrade**

Project Details

Entity: Brevard County Utility Services Department

Project Type: Wastewater Treatment Facility Upgrade

Sub Lagoon: Central Indian River Lagoon

Location: South Beaches WWTF - 2800 S Hwy A1A, Melbourne Beach, FL 32951

Project Description: This project is for the conversion of the existing 2 Million Gallon per Day (MGD) Activated Sludge Treatment Train and 6 MGD Carrousel Treatment System to Advanced Wastewater Treatment (AWT). Only High Level Disinfection (HLD) is currently required to meet permit requirements, but the higher treatment level of AWT will allow a redution in nutrient loading to reuse customers. The Save Our Indian River Lagoon grant money would be put towards the cost of construction.

Education and Outreach: None.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 5,734

Total Phosphorus Reduction (lbs/year): 1,147

Costs

Total Project Cost: $43,305,079

Estimated Cost per Pound Total Nitrogen Removed: $7,552

Estimated Cost per Pound Total Phosphorus Removed: $37,755

Eligible Tax Funding Cost Share: $2,471,354

Project Funding

Is Local Match in Adopted Budget: N/A

Dollar Amount of Local Cost Share: N/A

Dollar Amount Secured Grant(s): $14,200,000

Additional Information

Other Indian River Lagoon Benefits:

Notes: Project will reduce total nitrogen concentration to 2 mg/L and total phosphorus concentration to 1 mg/L.

Save Our Indian River Lagoon Funding Application Short Form: **Port Saint John Wastewater Treatment Plant Replacement**

Project Details

Entity: Brevard County Utility Services Department

Project Type: Wastewater Treatment Facility Upgrade

Sub Lagoon: North Indian River Lagoon

Location: Current plant is at 3910 Juanita St., Cocoa FL. New site has not been purchased.

Project Description: Advanced water treatment component of the design to replace the existing wastewater treatment facility in Port Saint John. Current plant does not meet Basin Management Action Plan (BMAP) requirements.

Education and Outreach: N/a

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 2,278

Total Phosphorus Reduction (lbs/year): 2,278

Costs

Total Project Cost: $40,000,000

Estimated Cost per Pound Total Nitrogen Removed: $17,559

Estimated Cost per Pound Total Phosphorus Removed: $17,559

Eligible Tax Funding Cost Share: $981,818

Project Funding

Is Local Match in Adopted Budget: No

Dollar Amount of Local Cost Share: N/A

Dollar Amount Secured Grant(s): N/A

Additional Information

Other Indian River Lagoon Benefits: This new plant will allow for increased plant capacity for potential future septic to sewer conversion projects in the the Port Saint John area. The existing wastewater treatment facility is at capacity and not rated for additional flows.

Notes:

Save Our Indian River Lagoon Funding Application Short Form: **City of Palm Septic to Sewer Conversion Project - Sewer Available Not Connected (SANC) Phase 2**

Project Details

Entity: City of Palm Bay

Project Type: Quick Connection

Sub Lagoon: Central Indian River Lagoon

Location: 80.6613225°W, 28.0049701°N

Project Description: The City of Palm Bay will be moving forward with Phase Two of its "Sewer Available Not Connected (SANC) Multi Phased – Multi Year Plan," a septic-to-sewer conversion initiative focused on improving water quality in the Indian River Lagoon, if awarded Florida Department of Environmental Protection Water Quality Improvement grant funds, in 2025. This phase targets 416 properties that will transition from Onsite Sewage Treatment and Disposal Systems (OSTDS) to the City's sanitary sewer system currently serving the area. If pending grant funds are received, Mandatory connection notifications will begin in July 2025. Grant funding is critical to support the financial costs of connecting these 416 priority properties, ensuring the successful execution of this phase and reinforcing Palm Bay's commitment to the long-term protection of the Indian River Lagoon.

Education and Outreach: The City of Palm Bay's public outreach program began in response to growing concerns about the environmental and health impacts of septic systems within the rapidly growing community. The City's septic-to-sewer conversion program includes a public outreach component utilizing community meetings, informational materials, digital communications, and direct mailings aimed at educating and engaging residents. The City has expanded its outreach efforts to include more targeted communication and support for residents in low-income areas, as highlighted by the recent septic-to-sewer program funded by the American Rescue Plan Act (ARPA). The City plans to continue prioritizing outreach efforts to facilitate a smooth implementation of septic-to-sewer connections, address challenges, and ensure broad community support as the project progresses. Last November, the public outreach efforts resulted in the City adopting a mandatory ordinance requiring all residents with sewer availability to connect to the sewer system. This ordinance clearly demonstrates the City's unwavering commitment to upgrading its infrastructure and ensuring all eligible properties comply with the new standards. KEY MESSAGES: 1. Health and Environmental Benefits: Protects the environment (Indian River Lagoon and Turkey Creek Estuaries) and improves public health. 2. Financial Assistance: City's Council already authorized wavers of utilities fees. 3. Mandatory Compliance: Last November new mandatory ordinance 4. Streamlined Process: The city provides support and clear information to make the transition as smooth as possible. TARGET AUDIENCE: 1. Low-Income Residents: Eligible for financial

assistance and priority in the program. 2. Residents with Sewer Access: Required to connect under the new ordinance. 3. Community Members with Septic Systems: Impacted by health and environmental risks.

Estimated Water Quality Benefits

Total Nitrogen Reduction (lbs/year): 1,011

Total Phosphorus Reduction (lbs/year): N/A

Costs

Total Project Cost: $7,072,000

Estimated Cost per Pound Total Nitrogen Removed: $6,998

Estimated Cost per Pound Total Phosphorus Removed: N/A

Eligible Tax Funding Cost Share: $1,616,992

Project Funding

Is Local Match in Adopted Budget: Yes

Dollar Amount of Local Cost Share: $2,072,000

Dollar Amount Secured Grant(s): $0

Additional Information

Other Indian River Lagoon Benefits: Implementation of this program will improve Indian River Lagoon (IRL) vital signs evaluated as part of the IRL restoration program including seagrasses, filter feeders, contaminants, legacy loads, wastewater, impaired waters, biodiversity, species of concern, forage fishes, fisheries, harmful algal blooms, and the overall state of the IRL.

Notes:

Save Our Indian River Lagoon
Citizen Oversight Committee
November 15, 2024

Agenda Item:
VIII. b. New Business

Title:
City of Palm Bay Zone A Septic to Sewer funding increase request

Requested Action:
Motion to recommend approval of a $247,612 funding increase for the City of Palm Bay Zone A Septic to Sewer Project

Summary Explanation and Background:
The City of Palm Bay Zone A Septic to Sewer Project is an original Save Our Indian River Lagoon project approved in 2016. It is currently approved for a base cost-share of $2,569,644 to convert 77 properties from septic to sanitary sewer, with an annual total nitrogen reduction benefit of 2,136 pounds. The City of Palm Bay passed an ordinance requiring property owners to connect where sanitary service is available and has started design for this project. The most current cost estimate for the project is $4,900,000.

The 2024 SOIRL Plan Update included the cost of inflation for each project. The inflation approved for this project added $499,952 to the cost-share, for a cost-share total of $3,069,596.00.

Based on the cost share offered in the 2024 Plan Update for septic to sewer projects of $1553 per pound of total nitrogen reduced, this project would now qualify for a base cost share of $3,317,208, an increase of $247,612.

The city's request for a $247,612.00 increase is based on the difference between the current cost-share rate offered in the 2024 SOIRL Plan compared to the inflated value of the 2016 cost estimate allocated in the 2024 SOIRL Plan.

Section 5.1 of the Save Our Indian River Lagoon Project Plan allows the Contingency Fund Reserve to be used to increase funding for approved projects. Adjusting the cost-share of this project by $247,612.00 represents a 9.6% contingency request.

Staff seeks a recommendation from the Citizen Oversight Committee on expanding the funding for the City of Palm Bay Zone A Septic to Sewer Project by $247,612 to a new total of $3,317,208 to offset increased costs.

The City of Palm Bay Florida
www.palmbayflorida.org

October 30, 2024

Ms. Virginia Barker, Director
Brevard Natural Resources Management Office
2725 Judge Fran Jamieson Way, Building A Viera, FL 32940

Subject: Request for Save Our Indian River Lagoon (SOIRL) Additional Funding for the City of Palm Bay Onsite Sewage Treatment and Disposal System (OSTDS) Remediation Plan – Septic to Sewer Project Area: City of Palm Bay - Zone A

Dear Ms. Barker:

The 2018 Update to the Save Our Indian River Lagoon (SOIRL) Project Plan included the City of Palm Bay Septic to Sewer Project Area – Zone A as a high-priority project. The City is proud to partner with Brevard County on this project and continue our efforts to reduce nutrients (nitrogen and phosphorous) by the implementation of this septic-to-sewer conversion initiative focused on improving water quality in the Indian River Lagoon.

As the 2024 Update to the SOIRL Project Plan for Brevard County is being prepared, the City of Palm Bay respectfully request the grant funding allocation for this project be updated to reflect the new cost per pound of nitrogen removal, as developed by Brevard County. Based on these updated values, we anticipate that the SOIRL program would contribute approximately $3.1 million towards the construction costs, with the City or other funding sources covering the balance of project costs. (See Figure 1).

In October 2023, the City Council passed Ordinance 2023-101 requiring property owners to connect to the sanitary utility system where service is available. The passage of this ordinance allows the City to proceed with several septic-to-sewer projects as part of an overall plan.

We have attached an updated cost estimate from the City's consulting engineer, Infrastructure Solution Services, presenting an updated project construction cost of $4.9 million The updated cost estimate presents an important increase. The City cannot commence the project until full funding is secured, and without this extra financial support, further delays to the program will be unavoidable.

The City of Palm Bay acknowledges and values the crucial assistance provided by Brevard County with the SOIRL Program in achieving essential biological nutrient removal improvements for the sustainability of the Indian River Lagoon through our strong partnership.

Figure 1. Updated Information Septic to Sewer Project Area Zone A City of Palm Bay

Project No.: 2016-39
Project Name: City of Palm Bay – Zone A*
Responsible Entity: City of Palm Bay
Sub-lagoon: Central IRL
Number of Lots: 77
Total Nitrogen Reduction (Pounds/year): 2,136
Total Nitrogen Cost (pounds/year): $1,203
Plan Funding: $2,569,644
Updated Approved: $3,069,596
Updated Cost (pounds/year): $1,437

Estimated Updated 2024 Total Project Construction Cost:
$4,900,000

SOIRL Updated 2024
Average Nitrogen Cost (pounds/year):$1,553
Eligible Tax Funding Cost Share (2024): $3,317,208

Total Increase Request: $247,612

Thank you and we look forward to continuing partnering with Brevard County to make this important project for the Indian River Lagoon and our community a reality.

Sincerely,

Suzanne Sherman, ICMA-CM
City Manager
City of Palm Bay