

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

July 21, 2023 – 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 & 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, Accounting Clerk II
- VI. Other Reports and Special Presentations
 - a) Impacts of Glyphosate on Seagrass Growth and Nutrient Cycling – Dr. Austin Fox, Assistant Professor, Florida Institute of Technology
 - b) Local Government Panel on Lessons Learned Regarding Glyphosate Restrictions –
Zach Eichholz, Chief Resilience Manager, and Dave Coulter, Infrastructure Maintenance Manager, City of Cape Canaveral
Courtney Barker, City Manager, City of Satellite Beach
Sandra Reller, Public Works Operations Director, City of Titusville
Rebecca Thibert, Assistant to the City Manager, City of Melbourne
Raleigh Berry, Sr. Environmental Scientist, Brevard County Natural Resources
- VII. Old Business
- VIII. New Business
 - a) 2024 Plan Update Schedule
 - b) Cost Share Rates for 2024 Plan Update
- IX. General Public Comments
- X. Final Comments by Chair and Committee Members
- XI. Adjournment

**Save Our Indian River Lagoon
Citizen Oversight Committee Meeting Minutes**

May 19, 2023 – 8:30 a.m.

2725 Judge Fran Jamieson Way, Bldg. C, 3rd Floor,
Florida Room and On-Line via Zoom Conference
Viera, FL 32940

Members Present:

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

Staff Present:

Virginia Barker, Brevard County Natural Resources Management Director
Heather Balsler, Assistant County Attorney
Dominic Dudai, Associate Environmental Specialist
Matt Badolato, Associate Environmental Specialist
Aleah Ataman, Associate Environmental Specialist
Beb Sebastian, Associate Environmental Specialist
Abbey Gering, Associate Environmental Specialist
Raleigh Berry, Senior Environmental Scientist
Chris Hall, Heavy Equipment Operator
Robby Rindone, Heavy Equipment Operator
Jaculin Watkins, Executive Secretary

I. Call to Order

II. Roll Call

A quorum was established.

III. Approval of the Agenda

Lorraine Koss moved to approve the Agenda; seconded by Terry Casto.

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

IV. Approval of Minutes

Vinnie Taranto moved to approve the Minutes; seconded by Lorraine Koss. There was no public comment for the motion. Motion was unanimously approved.

V. Progress and Fiscal Reports

a. Monthly Progress Report – Virginia Barker, Director

The Monthly Progress Report was given by Virginia Barker.

b. Monthly Revenue Graph and Financial Statements – Virginia Barker, Director

The Monthly Revenue Graph and Financial Statements were given by Virginia Barker.

c. Quarterly Financial and Grant Statements – Virginia Barker, Director

The Quarterly Financial and Grant Statements were reviewed by Virginia Barker, along with an overview of Water Project Funding for Brevard in the State Appropriations Bills. Discussion ensued, Ms. Barker responded to the Committee's questions.

d. Quarterly Save Our Indian River Lagoon Project Performance Table Update – Dominic Dudai, Associate Environmental Specialist

The Quarterly Save Our Indian River Lagoon Project Performance Table Update was presented by Dominic Dudai. Discussion ensued. Mr. Dudai responded to the Committee's questions.

VI. Other Reports and Special Presentations

a. Stress to Marine Vertebrates from Exposure to Herbicides – Dr. Nancy Denslow, Acting Chair, University of Florida College of Veterinary Medicine

Dr. Nancy Denslow presented information on the stress caused by herbicide exposure to vertebrate animals. The presentation went over their measurement of glyphosate levels in waterways in Florida and in collected manatee plasma samples, along with some results from testing the effects of glyphosate exposure to sea grass. Discussion ensued. Dr. Denslow responded to the Committee's questions.

b. Manatee Health Investigations in the Indian River Lagoon – Martine de Wit, DVM, Research Scientist at the Marine Mammal Pathology Lab, Fish and Wildlife Institute, Florida Fish and Wildlife Conservation Commission

Dr. Martine de Wit presented information on manatee health investigations in the Indian River Lagoon, reviewing threats (watercraft collisions, loss of warm water habitat, and emerging threat of change or loss of forage) and causes of manatee deaths in the Indian River Lagoon. Discussion ensued. Dr. de Wit responded to the Committee's questions.

c. Implications of Seagrass Changes on Manatee Distribution in the Indian River Lagoon Waters Surrounding NASA’s Kennedy Space Center (KSC) – Doug Scheidt, Ecologist III, Herndon Solutions Group, LLC, NASA Environmental and Medical Contract, KSC

Doug Scheidt presented information on noted changes in manatee distribution in the Indian River Lagoon waters surrounding NASA’s Kennedy Space Center. Discussion ensued. Mr. Scheidt responded to the Committee’s questions.

d. Brevard Zoo’s Partnership for Manatee Rescue and Rehabilitation in Brevard County – Jody Cassell, Director of Conservation, Brevard Zoo

Ms. Jody Cassell presented Brevard Zoo’s plans for manatee rescue and rehabilitation in Brevard and surrounding counties. Brevard Zoo’s efforts include a seagrass nursery, rehabilitation facilities at the Zoo (to open later this year) and at the future Aquarium (estimated to open in 2027). Discussion ensued. Ms. Cassell responded to the Committee’s questions.

(Seven-minute break)

e. Glyphosate Study Proposal – Charlie Venuto

Mr. Charlie Venuto presented information on glyphosate, with a listing of areas in Florida that have glyphosate restrictions, and discussed health and legal concerns, along with additional information on current uses. Mr. Venuto then proposed Brevard County establish a baseline of current usage amounts of glyphosate-containing products. Discussion ensued.

Lorraine Koss moved to go forward with gathering the data on Brevard County glyphosate usage, to determine a baseline; with a modification that a more-detailed plan be brought back to the COC at the next meeting in July; seconded by Terry Casto.

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

Vinnie Taranto moved to extend the meeting 15 minutes; seconded by Terry Casto. Motion was unanimously approved.

f. Program Video – Aquatic Vegetation Management – Transitioning from Herbicides to Harvesting – Raleigh Berry, Sr. Environmental Scientist

A video was shown on Brevard County’s aquatic vegetation management program. Discussion ensued. Mr. Berry responded to the Committee’s questions.

VIII. Old Business

No old business was heard.

Save Our Indian River Lagoon Citizen Oversight Committee Meeting
MINUTES – May 19, 2023

IX. General Public Comments

Public Comments were heard.

X. Final Comments by Chair and Committee Members

Final comments were heard.

XI. Adjournment

Meeting was adjourned at 11:55 a.m.



Save Our Indian River Lagoon Project Plan July 2023 Progress Report

WORK COMPLETED THIS MONTH:

- Leaky Lateral Repairs – 431 of 646 detected private sewer leaks have been repaired; 58 grant applications received; 48 payments processed; over 300 more notification letters mailed this month
- Septic Upgrades – 12 more reimbursements processed of 174 to date; 315 total agreements executed
- Quick Connects – 10 more reimbursement processed of 74 to date: 260 agreements in process. Over 175 applications were requested from homeowners in response to the most recent mailing
- University of Central Florida conducted deployment monitoring of adult oysters onto prisms and 1-month monitoring for oyster gabions at McNabb Park. The majority of the oysters in both size-class treatments for gabions are surviving and have grown since deployment
- Contracts executed – Melbourne Cherry St Baffle Box, Cocoa N Fiske Floating Wetlands, and Titusville Commons & City Hall Tree Boxes
- Contract Amended - Satellite Beach Hedgecock/Grabowsky Septic to Sewer and Lori Laine Stormwater
- TDC funded Recreation and Manatee Field Guides published and distributed

WORK UNDERWAY THIS MONTH:

- Meetings with state regarding new legislation & roll-out of the Indian River Lagoon Protection Program
- 5 Derelict Vessels Removed
- In-Ground Nitrogen-Reducing Biofilter system – final report revisions requested.
- South Central C Septic-to-Sewer – 91.8% complete; lift station plumbing and electrical work underway
- Micco Sewer Line Extension – Installing laterals for gravity sewer connections
- Brevard County Septic-to-Sewer – 90% design underway for South Banana Zone B and Merritt Island Zones F; 75% design review complete for North Merritt Island Zone E; 75% design underway for Micco Zone B, Sykes Creek Zone R, Sykes Creek Zone M & T
- Melbourne High School/Funeral Home Baffle Box – construction started
- Basin 1398 Sand Dollar Canal Harvesting – Harvesting is underway
- Grand Canal Muck Dredging – Dredging underway; removed approximately 269,893 cubic yards to date
- Sykes Creek Phase 1 Muck Dredging – Dredging underway; removed 68,994 cubic yards to date
- Sykes Creek Phase 2 Muck Dredging – RFQ for engineering consulting services closes this month; Gopher tortoise relocation is contracted
- Eau Gallie Muck Dredging – Kick off meeting with consultant scheduled to discuss project task orders.
- Canaveral South Muck Dredging – Sediment sampling report received.
- Brevard Zoo is building oyster bars and deploying gardenized oysters in the North Indian River Lagoon
- Videos filmed: Grand Canal Dredging, Interstitial Water Treatment, and Muckrete (partial filming)
- Videos underway: My Lagoon Story: Barbara Wall-Scanlon, Bobby Putnam, Curt Smith, and Don Deis
- Septic Maintenance commercials content finalized and being filmed
- Contracts – Titusville Riverfront Nutrient Removing Filtration Boxes, Melbourne's Spring Creek Baffle Box, and Spring Creek Dredging out for signature
- Contract Amendments – Cocoa Beach Golf Muck Project out for signature, West Melbourne Ray Bullard Water Reclamation Facility Upgrade and Melbourne Grant Street Water Reclamation Facility Upgrade to County Commission on 7/25



PRESENTATIONS THIS MONTH:

June 1 – Florida Water Resources Conference - Anthony
June 30 – Sounds of the Lagoon – Aleah and Abbey

UPCOMING LAGOON SCIENCE FORUMS AND PUBLIC EVENTS:

July 25– Ocean Research & Conservation Association [Lab Technique Training: Pipetting & Dilutions](#)
July 26 - Ocean Research & Conservation Association [Introduction to Fish Monitoring & Processing](#)
July 26 – Ocean Research & Conservation Association [Introduction of Citizen Science Projects](#)
July 27 – Ocean Research & Conservation Association [Lab Technique Training: Particle Analysis](#)
July 31 – Ocean Research & Conservation Association [Pollution Mapping Refresher](#)

UPCOMING VOLUNTEER PARTICIPATION OPPORTUNITIES:

July 20 – Ocean Research & Conservation Association [Fish Processing - Email Missy Weiss To Register](#)
July 22 – Keep Brevard Beautiful [Merritt Island Summer Series Litter Cleanup](#)
July 28 – Ocean Research & Conservation Association [Fish Processing - Email Missy Weiss To Register](#)
August 4 – Marine Resources Council [First Friday Litter Patrol](#)
Marine Resources Council super-clam monitoring, storm drain marking in Melbourne, and Concrete Creations Program seeking volunteers – [Email Caitlin Bagnall to register](#)
Rotary Park rain garden maintenance or storm drain marking in Cocoa – [Email Carlos Cuevas for opportunities](#)
Pineda Waterway Warriors Cleanup – Every 2nd & 4th Saturday under Tropical Trail Exit overpass – [Email Sherill for more information](#)

WEBSITE, SOCIAL MEDIA, NEWSLETTER, AND REPORT LINKS:

[Lagoon Loyal Outreach & Engagement Landing Page](#) [Save Our Indian River Lagoon YouTube](#)
[Save Our Indian River Lagoon Website](#) Sign up for our [Monthly Newsletter](#)
[Save Our Indian River Lagoon Facebook](#) Sign up for our [Weekly Harmful Algal Bloom Reports](#)
[Save Our Indian River Lagoon Instagram](#)

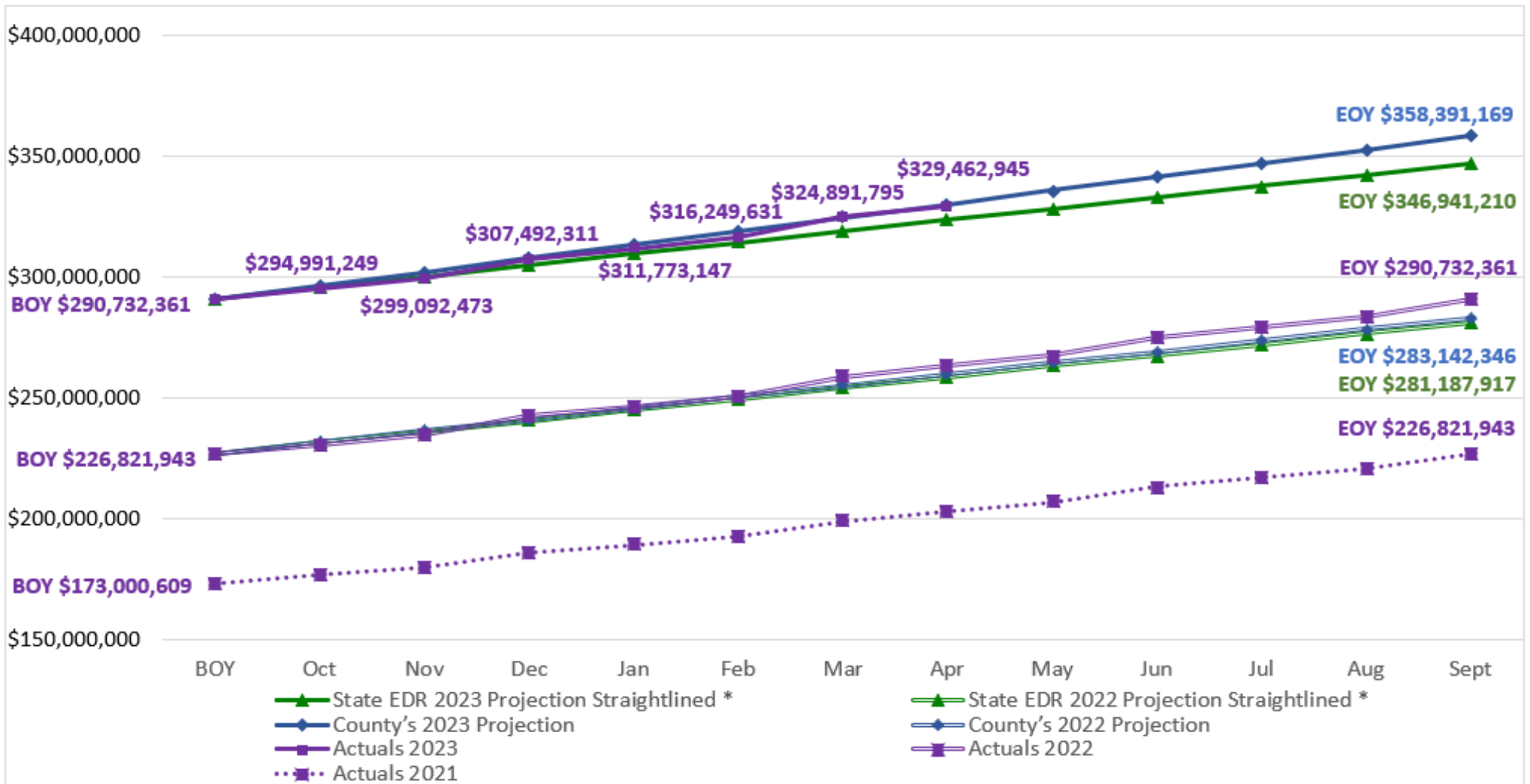
FUTURE TOPICS FOR SPECIAL PRESENTATIONS:

1. Seagrass Sightings in the Lagoon
2. Horseshoe Crab Spawning in the Lagoon
3. Lagoon Project Feasibility Study Update by St Johns River Water Management District
4. Regional Wastewater Treatment Feasibility Study by the Economic Development Commission
5. Surface Water Remediation Technologies
6. Turf grass options and alternatives
7. Lagoon Projects - managed and funded by other agencies, entities, or grant programs
8. Nutrient Loading Impacts of Reclaimed Water
9. Project Performance Measurements and Cost-Effectiveness Results
10. Inground Nitrogen Reducing Bioreactor Septic Drain Field Pilot Project Findings
11. Super Clam Restoration and Aquaculture Stimulus Projects
12. Shoreline Armor and Living Shoreline Permitting Authorities, Rules, and Opportunities
13. Lagoon Fish and Fisheries Research
14. Low Impact Development/Green Infrastructure/Resilience: Local examples and potential opportunities
15. Microplastics – University of Central Florida research
16. Isotope studies

Save Our Indian River Lagoon Revenues Cumulative Graph Fiscal Year 20-21 to Current Fiscal Year

* 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 Year 20-21 to Current Fiscal Year

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

Month	State EDR 2023 Projection Straightlined *	County's 2023 Projection	Actuals 2023	State EDR 2022 Projection Straightlined *	County's 2022 Projection	Actuals 2022	Actuals 2021
BOY	\$290,732,361	\$290,732,361	\$290,732,361	\$226,821,943	\$226,821,943	\$226,821,943	\$173,000,609
Oct	\$295,416,432	\$296,370,595	\$294,991,249	\$231,352,441	\$231,515,310	\$230,665,218	\$176,417,554
Nov	\$300,100,502	\$302,008,829	\$299,092,473	\$235,882,939	\$236,208,677	\$234,614,208	\$179,767,028
Dec	\$304,784,573	\$307,647,063	\$307,492,311	\$240,413,437	\$240,902,044	\$242,347,634	\$185,628,087
Jan	\$309,468,644	\$313,285,297	\$311,773,147	\$244,943,935	\$245,595,411	\$246,260,610	\$189,094,044
Feb	\$314,152,715	\$318,923,531	\$316,249,631	\$249,474,432	\$250,288,778	\$250,342,140	\$192,467,433
Mar	\$318,836,785	\$324,561,765	\$324,891,795	\$254,004,930	\$254,982,145	\$258,706,447	\$198,814,528
Apr	\$323,520,856	\$330,199,999	\$329,462,945	\$258,535,428	\$259,675,512	\$263,179,622	\$202,841,586
May	\$328,204,927	\$335,838,233		\$263,065,926	\$264,368,879	\$267,470,408	\$206,775,862
Jun	\$332,888,998	\$341,476,467		\$267,596,424	\$269,062,246	\$275,034,484	\$212,965,332
Jul	\$337,573,068	\$347,114,701		\$272,126,922	\$273,755,612	\$279,374,282	\$216,998,992
Aug	\$342,257,139	\$352,752,935		\$276,657,419	\$278,448,979	\$283,600,235	\$220,555,946
Sept	\$346,941,210	\$358,391,169		\$281,187,917	\$283,142,346	\$290,732,361	\$226,821,943

Save Our Indian River Lagoon - FY 2023

Monthly Financial Statement

Date Range 01 October 2022 – 05 July 2023

Fund 1260

*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	\$ 58,146,715	\$ 38,730,584	66.61%
Interest Earned	\$ 2,314,053	\$ 4,976,532	215.06%
Other Federal Grants	\$ 5,932,562	\$ -	0.00%
Federal Grants Hurricane Irma	\$ 1,357,269	\$ -	0.00%
Other State Grants	\$ 13,581,553	\$ 286,358	2.11%
State Grants Hurricane Irma	\$ 226,212	\$ -	0.00%
Tourism Development Council Grants	\$ 81,428	\$ -	0.00%
Other Physical Environment Grants	\$ 338,713	\$ -	0.00%
American Rescue Plan Act (ARPA)	\$ 6,939,644	\$ 1,261,798	18.18%
Statutory Reduction	\$ (3,883,050)	\$ -	0.00%
Balance Forward	\$ 242,351,863	\$ 247,253,609	102.02%
Total	\$ 327,386,962	\$ 292,508,880	89.35%

Expenditures (Roll-Up)	Budget	Total Assigned YTD*	Actuals
Compensation & Benefits	\$ 1,355,722	\$ 1,191,527	\$ 752,186
Operating Expenses	\$ 297,896	\$ 160,116	\$ 147,018
Capital Outlay	\$ 118,893	\$ 53,290	\$ 12,616
SOIRL Projects funded under Operating Expenses (Non-Capital County Project & Programs)	\$ 4,048,387	\$ 1,531,102	\$ 510,780
SOIRL Projects funded under Capital Improvement (County Projects over \$35K)	\$ 83,924,179	\$ 26,210,722	\$ 10,543,772
SOIRL Projects funded under Aid to Gov't Agencies (Cities & Water Management Districts)	\$ 74,449,801	\$ 25,226,708	\$ 1,046,778
SOIRL Projects funded under Aid to Private Organizations (Property Owners & Non-Government Organizations)	\$ 48,756,501	\$ 3,654,066	\$ 2,111,977
Contingency	\$ 18,502,590	\$ -	\$ -
Reserves (for approved projects scheduled beyond this fiscal year)	\$ 95,932,993	\$ -	\$ -
Total	\$ 327,386,962	\$ 58,027,531	\$ 15,125,127



2024 Update of the Save Our Indian River Lagoon Project Plan Proposed Schedule

Agenda Item:

VIII. a. New Business

Update Cost Share Eligibility

- 7/14 Include proposed cost share eligibility update in the Citizen Oversight Committee agenda packet
- 7/21 Citizen Oversight Committee votes on cost-share eligibility for the next grant cycle
- 7/31 Post cost share eligibility and link to online funding applications

Project Submittal and Reviews

- 9/29 Applications due (*About 2 months after application posted*)
- 10/27 Staff review completed, including all revisions, and packet of funding requests is sent to Committee for review
- 11/17 Citizen Oversight Committee review/recommendation for submitted projects
- 12/15 *Potential to cancel December meeting*

2024 Plan Update

- 12/15 Draft 2024 Project Plan Update posted and sent to the Citizen Oversight Committee
- 1/19 Citizen Oversight Committee reviews/recommends 2024 Project Plan Update
- 15 days *The recommended plan update must be posted for public review at least 15 days prior to its consideration at a County Commission meeting*
- 2/6 or 13 County Commission reviews/approves 2024 Project Plan Update



**Save Our Indian River Lagoon
Citizen Oversight Committee
July 21, 2023**

Agenda Item:

VIII. b. New Business

Title:

Proposed cost share eligibility by project type for projects proposed for the 2024 Save Our Indian River Lagoon Project Plan Update

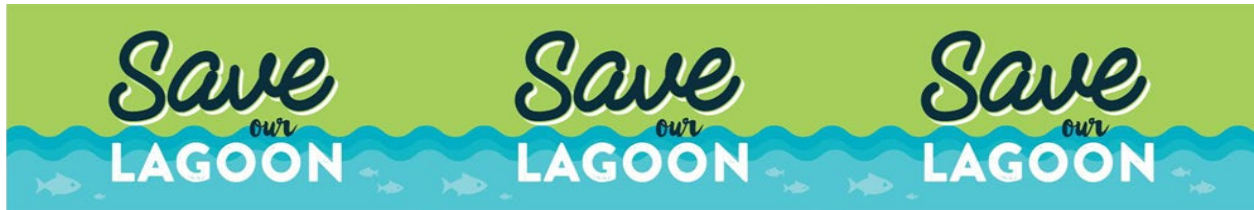
Requested Action:

Motion to recommend offering the proposed cost shares to recruit project proposals for the 2024 Save Our Indian River Lagoon Project Plan Update

Summary Explanation and Background:

Draft cost shares are based on the average cost of each project type approved in the Save Our Indian River Lagoon Project Plan, as amended, with the following exceptions:

- Project costs have been updated to reflect inflation between the year the project was added to the plan and the year project construction is anticipated, capped at a maximum of 5 years of inflation
- The cost share for Package Plant Connection to Central Sewer reflects the Board of County Commissioner's approved rate of \$1500 per pound of nitrogen load reduction for connection to central sewer
- A cost share for Septic Upgrades of \$1200 per pound of nitrogen load reduction as approved by the Board of County Commissioners in the 2022 Plan Update
- The \$114 rate for Vegetation Harvesting is based on the average cost of all projects except the Melbourne Tillman project and the large County project, both of which are not representative of typical project costs due to their large economies of scale
- The Stormwater Treatment Projects by location: \$313 on the Mainland, \$370 on Merritt Island and \$446 on the Beaches are based on treatment of priority basins and excludes the M1-Crane Creek Rediversion Project, which is not representative of typical project costs due to its large economy of scale



Project Type	2023 Cost-share Rate per Pound per Year of Total Nitrogen	2024 Cost-share Rate per Pound per Year of Total Nitrogen (with 5-year capped inflation)
Wastewater Treatment Facility Upgrades for Reclaimed Water	\$383	\$431
Package Plant Connections	\$1,500	\$1,459 \$1,500
Sewer Lateral Rehabilitation	\$255	\$289
Septic-to-Sewer by Extension	\$1,500	\$1,553
Septic System Upgrades	\$1,200	\$924 \$1,200
Stormwater Projects (Priority Basins)	-	-
Mainland	\$313	\$357
Merritt Island	\$370	\$380
Beaches	\$446	\$409
Vegetation Harvesting (excluding M-T and County projects)	\$110	\$69 \$114
Muck Removal	\$520	\$607
Treatment of Muck Interstitial Water	\$97	\$124
Oyster Bar	\$397	\$475
Planted Shorelines	\$240	\$259