

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

April 17, 2020 – 8:30 to 11:30 am
Brevard County Government Center
2725 Judge Fran Jamieson Way
Zoom and East Side of Bldg. B
Viera, Florida 32940

- I. Call to Order
- II. Roll Call
- III. Approval of the Agenda
- IV. Approval of Minutes
- V. Monthly Progress and Fiscal Reports
 - a. Monthly Progress Report – Virginia Barker, Director
 - b. Monthly Revenue Graph – Crystal Melton, Fiscal Analyst
- VI. Other Reports and Special Presentations
- VII. Old Business
- VIII. New Business
 - a. Allocation Recommendation for Oyster Gardening - \$150,000/year
 - b. Allocation Recommendation for Remaining \$6M of Anticipated Revenues
- IX. General Public Comments
- X. Final Comments by Chair and Committee Members
- XI. Adjournment

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

February 21, 2020 – 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	John Luznar	No	Vinnie Taranto	Yes
Education	Stephany Eley	Yes	Melissa Martin	No
Finance	Courtney Barker	Yes	Todd Swingle	No
Tourism	David Lane - Chair	No	Laurilee Thompson	Yes
Real Estate	Jay Moynahan	Yes	Dennis Basile	Yes
Lagoon Advocacy	John Windsor – Vice Chair	Yes	Terry Casto	Yes

Staff Present:

Virginia Barker, Brevard County Natural Resources Management Director
Christine Valliere, Assistant County Attorney
Courtney Maier, Engineer I, Stormwater
Anthony Gubler, Environmental Specialist
Brandon Smith Environmental Specialist
Matt Badolato, Associate Environmental Specialist
Terri Breeden, Environmental Specialist
Jenny Hansen, Environmental Specialist
Crystal Melton, Fiscal Analyst

I. Call to Order

II. Roll Call

A quorum was established.

III. Approval of the Agenda

Lorraine Koss moved to approve the Agenda as written; Seconded by Jay Moynahan. Motion was unanimously approved.

IV. Approval of Minutes

Courtney Barker moved to approve the January 17, 2020 minutes as written; Seconded by Lorraine Koss. Motion was unanimously approved.

V. Monthly Progress and Fiscal Reports

a. Monthly Progress Report – Virginia Barker

Save Our Indian River Lagoon Citizen Oversight Committee Meeting
MINUTES – February 21, 2020

The Monthly Progress Report was given by Virginia Barker.

b. Monthly Revenue Graph – Crystal Melton, Fiscal Analyst

Crystal Melton reported on the Monthly Revenue Graph.

Discussion ensued. The Committee's questions were answered by Crystal Melton and Virginia Barker.

c. Quarterly Financial Report – Crystal Melton, Fiscal Analyst

This item was heard under V.b., Monthly Revenue Graph.

d. Quarterly Save Our Indian River Lagoon Project Performance Table – Terri Breeden, Associate Environmental Specialist

Terri Breeden briefly explained the changes to the Quarterly Save Our Indian River Lagoon Project Performance Table document as requested by the Committee at the December 13, 2019 meeting.

The quarterly presentation of the Save Our Indian River Lagoon Project Performance Table was given. The update included: 1) Stormwater projects update by Courtney Maier and Terri Breeden; 2) Muck Removal projects and Micco Sewer Line project updates by Walker Dawson; 3) Sewer projects update by Anthony Gubler; 4) Education and Outreach projects by Brandon Smith; 5) Living Shoreline Projects update by Jenny Hansen; 6) Cocoa Beach, Indian Harbour Beach, Palm Bay, St. Johns River Water Management District, Titusville and West Melbourne projects update by Terri Breeden; 7) Marine Resources Grass Clippings project update by Brandon Smith; and 8) Melbourne Septic to Sewer, Wastewater Treatment, and Baffle Box projects update by Dani Straub, City of Melbourne.

Ms. Straub showed photos of the Cliff Creek Baffle Box installation.

Discussion ensued. The Committee's questions were answered by Laurilee Thompson, Dani Straub and County Staff.

Vinnie Taranto moved to have a discussion added as a future agenda item on the following: 1) 2017-18 projects that are not moving forward and whether the funding can be better spent, and 2) increased construction and material costs funding; Seconded by Lorraine Koss. Motion was unanimously approved.

VI. Other Reports and Special Presentations

a. Legacy Loads – Microbial Populations in Indian River Lagoon Muck: Drew Palmer, PhD, Associate Professor, Florida Institute of Technology

Dr. Palmer gave a power point presentation on Microbial Populations in Indian River Lagoon Muck, specifically legacy loads in Sykes Creek. Topics included: 1) Project Goal – To determine the extent of human sourced biological and chemical contaminants present in Muck; 2) Better understanding of what is in the muck for informing removal, storage and disposal; and, 3) What pollution sources have legacy impacts on muck composition.

Discussion ensued. The Committee's questions were answered by Dr. Palmer and Virginia Barker.

b. Federal and State Legislative Update – Dr. Duane De Freese, IRL Council & Indian River Lagoon National Estuary Program

Dr. Duane De Freese provided a the Federal and State Legislative Update. Topics included: 1) Clean Waterways Act Bill; 2) Senate and House Budgets; 3) House Bill 4044 – Senate Bill 3171, to amend the Federal Water Pollution Control Act to reauthorize the National Estuary Program, and for other purposes; and) Indian River Lagoon National Estuary Program Annual Report 2019.

c. Story Map Addition: Reclaimed Water Layer – Matt Badolato, Associate Environmental Specialist

Matt Badolato gave an update on the newly created Story Map page, the Reclaimed Water Layer.

Discussion ensued. The Committee's questions were answered by Matt Badolato and Virginia Barker.

VII. Old Business

There was no Old Business.

VIII. New Business

a. Election of New Chair and Vice Chair

Vinnie Taranto moved to nominate John Windsor to serve as Chair; Seconded by Courtney Barker. Motion was unanimously approved.

Vinnie Taranto moved to nominate Courtney Barker to serve as Vice Chair; Seconded by Laurilee Thompson. Motion was unanimously approved.

IX. General Public Comment

General Public Comments were heard.

A video by the Indian River Coalition about the progress of work being done to save the Indian River Lagoon was shown.

X. Final Comments by Chair and Committee Members

Final Comments were heard.

XI. Adjournment



Save Our Indian River Lagoon Project Plan April 2020 Progress Report

WORK COMPLETED THIS MONTH:

- Identified options for allocating the remaining \$6M of anticipated Trust Fund revenue
- Sykes Creek N Septic-to-Sewer – Bid is advertised; All bid due dates are extended due to COVID-19
- Micco Sewer Service Extension –All permits issued, preparation of bid documents underway
- Basin 10 County Line Road Woodchip Bioreactor – completion expected 4/10; final walk through 4/14
- Derelict Vessels – 5 additional derelict vessels removed
- Marina Isles Oyster Bar population has remained stable over the last quarter, with growth in oyster shell length for two size classes
- Mid-Year budget adjustments were approved by the County Commission on April 7th
- Budget changes have been prepared to adjust the budget to match the adopted 2020 Plan Update

WORK UNDERWAY THIS MONTH:

- Palm Bay North Region Water Reclamation Facility Upgrade – Pre-construction meeting and Notice to Proceed scheduled to occur on 4/16/20, plan to break ground in July or August pending Covid-19
- Beaches Leaking Sewer Laterals – 21 repairs complete; 7 reimbursements processed
- Preparing plumber RFP for use with leaky lateral repairs and sewer connection projects
- Ordinance options to enforce mandatory repair of broken sewer laterals is on hold for Covid-19
- Cone Road Septic-to-Sewer –11 properties connected
- Melbourne - Pennwood and Riverside septic to sewer project contract amendments out for signature
- 200+ Postcards being sent weekly for Septic Upgrade reimbursement grants; 1 reimbursement request received; 18 applications sent to interested property owners
- Recruitment underway for Inground Nitrogen Reducing Bioreactor pilot projects; 3 potential recruits
- Basin 115 Carter Road Biosorption Activated Media - construction is underway
- Basin 2134 Fleming Grant Biosorption Activated Media following Basin 10 completion approval
- Johns Road and Flounder Creek –waiting for Army Corp permits; starting bid package preparations
- Kingsmill-Aurora Phase II – Consultants received survey work, reviewing survey data, continuing design
- Basin 1329 – coordinating with Satellite Beach; Army Corp permit received on 3/4
- Melbourne – Sherwood Park Stormwater Quality Project contract in draft
- Melbourne – Cliff Creek Amendment in draft
- Grand Canal Muck Dredging – awaiting responses from regulatory agencies for permit modification to include Berkeley Canal; DMMA site prep for restart
- Sykes Creek Phase I Muck Dredging – County requested additional information from low bidder
- Cocoa Beach Golf Muck Project– City and County evaluating options for selection of consultant to conduct assessment of capping alternative
- Rockledge A – preliminary field work scope under final review for authorization
- Titusville Railroad Bridge East and West –proposal for additional data collection under review
- NASA Causeway East–proposal for additional data collection under review
- Coconut Point Oyster Bar - full base layer is constructed and baseline monitoring is complete
- Aquafiber Nitrogen & Phosphorus Surface Water Remediation Demo – delayed by Covid-19
- Video Production – underway for 'My Lagoon Story' for new Citizen Oversight Committee members, Sylvan Estates Septic to Sewer Project and Cocoa Beach Water Reclamation Facility Upgrade



PRESENTATIONS THIS MONTH: All Cancelled or postponed due to Covid-19 social distancing

March 21 – Florida Master Naturalist Program – Brandon

March 26 – LEAD Brevard – Virginia and Brandon

March 27 – Lagoon & Lager at Hell ‘n Blazes – Terri

April 17 – Cocoa Beach Friday Fest and Earth Day Festival - Anthony

UPCOMING LAGOON SCIENCE FORUMS AND PUBLIC EVENTS: All Cancelled or postponed due to Covid-19

3/21-5/9 Florida Master Naturalist Program – Coastal Module <https://conference.ifas.ufl.edu/fmnp/>

4/7, Marine Resources Council Brown Bag Seminar: Recycle Brevard

4/24 – Brevard Zoo Safari Under the Stars Youth Event with Jean-Michel Cousteau

UPCOMING VOLUNTEER PARTICIPATION OPPORTUNITIES: All Cancelled or postponed due to Covid-19

Brevard Zoo Reef Build events Contact restoreourshores@brevardzoo.org

Brevard Zoo– Shoreline Planting <https://restoreourshores.org/volunteer-we-need-you/#howyoucanhelp>

Keep Brevard Beautiful - Lagoon Friendly Lawns – contact Kaylyn Palmer at 321-631-0501

Marine Resources Council – Lagoon Watch, Mangrove, or Lagoon Literacy - <https://savetheirl.org/volunteer/>

WEBSITE AND SOCIAL MEDIA LINKS:

Outreach and Engagement Landing Page: <https://lagoonloyal.com/>

Website: <http://www.brevardfl.gov/SaveOurLagoon>

Facebook: <https://www.facebook.com/BrevardCountySaveOurLagoon>;

Instagram: <https://www.instagram.com/saveourlagoon/>

YouTube: <https://goo.gl/GBh6xU>

FUTURE TOPICS FOR SPECIAL PRESENTATIONS:

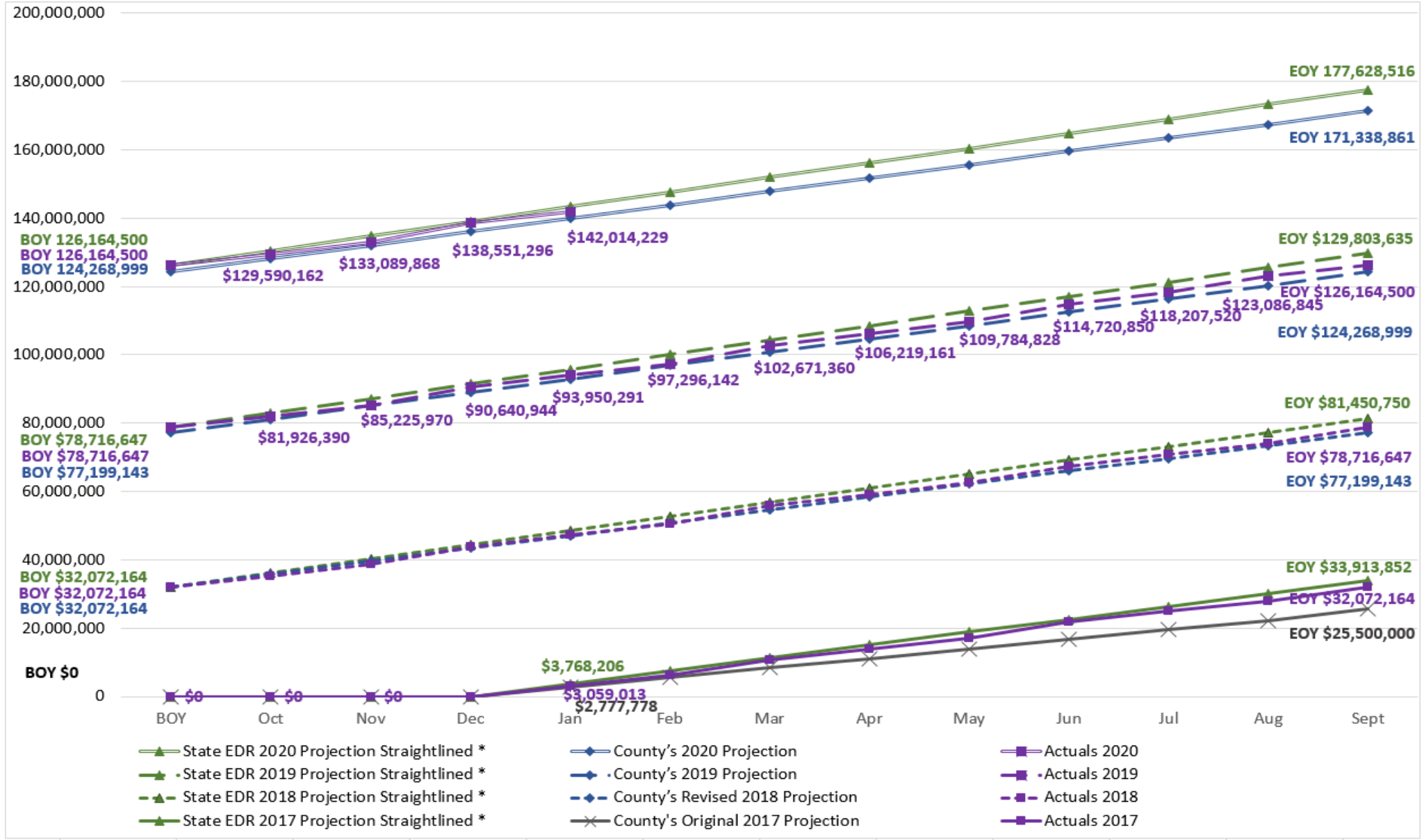
1. A Day in the Life of the Indian River Lagoon – Missy Weiss
2. Ecological modeling of 528 and 520 Banana River Causeway Reductions – Dr. Sherry Brant-Williams
3. Wastewater Utility Asset Management Planning – Todd Swingle
4. Tourism + Lagoon grant projects – Using Super Clams for Restocking Efforts
5. Ongoing Research on Charismatic Critters of the Lagoon – Hubbs SeaWorld Research Institute
6. New Enhanced Ocean Inflow Research – Florida Tech Research Initiative
7. Indian River Lagoon Research News: TechCon, ShORE, and Harbor Branch Symposium Highlights
8. Completed and Ongoing Muck Research – Florida Tech Research Initiative
9. Coordinating Spoil Management with Florida Inland Navigation District
10. Water Technology Conference/Industry Day – Economic Development and National Estuary Program
11. Re-use/Reclaimed Water – Nutrient Loading Impacts and Opportunities
12. Surface Water Remediation – AquaFiber, D.T.G., Chemical Tech, Phosphorus Free
13. Pollution and Algal Bloom Mapping via Satellite Imagery Interpretation- Gybe
14. Lagoon Fish and Fisheries Research – Dr. Grant Gilmore
15. Lagoon projects managed and funded by other entities
16. Climate change impacts to the Lagoon – Randy Parkinson
17. Low Impact Development – Local examples
18. Project Monitoring Results
19. Package Plants

Save Our Indian River Lagoon Revenues Cumulative Graph Fiscal Year 16-17 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 16-17 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 16-17 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

Month	State EDR 2020 Projection Straightlined *	County's 2020 Projection	Actuals 2020	State EDR 2019 Projection Straightlined *	County's 2019 Projection	Actuals 2019	State EDR 2018 Projection Straightlined *	County's Revised 2018 Projection	Actuals 2018
BOY	126,164,500	124,268,999	126,164,500	\$78,716,647	\$77,199,143	\$78,716,647	\$32,072,164	\$32,072,164	\$32,072,164
Oct	130,453,168	128,191,487	\$129,590,162	\$82,973,896	\$81,121,631	\$81,926,390	\$36,187,046	\$35,832,746	\$35,300,032
Nov	134,741,836	132,113,976	\$133,089,868	\$87,231,145	\$85,044,119	\$85,225,970	\$40,301,929	\$39,593,327	\$38,647,632
Dec	139,030,504	136,036,464	\$138,551,296	\$91,488,394	\$88,966,607	\$90,640,944	\$44,416,811	\$43,353,909	\$43,870,270
Jan	143,319,172	139,958,953	\$142,014,229	\$95,745,643	\$92,889,095	\$93,950,291	\$48,531,693	\$47,114,490	\$47,150,412
Feb	147,607,840	143,881,441		\$100,002,892	\$96,811,583	\$97,296,142	\$52,646,575	\$50,875,072	\$50,484,322
Mar	151,896,508	147,803,930		\$104,260,141	\$100,734,071	\$102,671,360	\$56,761,457	\$54,635,653	\$55,782,660
Apr	156,185,176	151,726,418		\$108,517,390	\$104,656,559	\$106,219,161	\$60,876,340	\$58,396,235	\$59,191,675
May	160,473,844	155,648,907		\$112,774,639	\$108,579,047	\$109,784,828	\$64,991,222	\$62,156,817	\$62,444,639
Jun	164,762,512	159,571,395		\$117,031,888	\$112,501,535	\$114,720,850	\$69,106,104	\$65,917,398	\$67,409,450
Jul	169,051,180	163,493,884		\$121,289,137	\$116,424,023	\$118,207,520	\$73,220,986	\$69,677,980	\$70,776,206
Aug	173,339,848	167,416,372		\$125,546,386	\$120,346,511	\$123,086,845	\$77,335,868	\$73,438,561	\$74,021,947
Sept	177,628,516	171,338,861		\$129,803,635	\$124,268,999	\$126,164,500	\$81,450,750	\$77,199,143	\$78,716,647

Save Our Indian River Lagoon Revenues Cumulative Chart Fiscal Year 16-17 to Current Fiscal Year

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- 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

Month	State EDR 2017 Projection Straightlined *	County's Original 2017 Projection	Actuals 2017
BOY	zero	zero	zero
Oct	zero	zero	zero
Nov	zero	zero	zero
Dec	0	0	0
Jan	\$3,768,206	\$2,777,778	\$3,059,013
Feb	\$7,536,412	\$5,555,556	\$6,217,230
Mar	\$11,304,617	\$8,333,334	\$10,686,395
Apr	\$15,072,823	\$11,111,112	\$13,941,510
May	\$18,841,029	\$13,888,890	\$17,177,137
Jun	\$22,609,235	\$16,666,668	\$21,754,009
Jul	\$26,377,441	\$19,444,446	\$24,898,729
Aug	\$30,145,647	\$22,222,224	\$27,890,034
Sept	\$33,913,852	\$25,500,000	\$32,072,164



Save Our Indian River Lagoon
Citizen Oversight Committee
April 17, 2020

Agenda Item:

VIII. a. New Business

Title:

Oyster Gardening Program

Requested Action:

After hearing a presentation on the proposal to fund the Countywide Oyster Gardening Program, motion to recommend funding in the amount of \$150,000 per year from the *Save Our Indian River Lagoon* Trust Fund to continue this program, as pre-authorized by the Brevard Board of County Commissioners.

Summary Explanation and Background:

Since its inception in October, 2013, the Oyster Gardening Program has been successfully engaging the public in helping to restore the natural filtration by shellfish thereby improving the ecosystem resilience within the waters of the Indian River Lagoon (IRL). To date, over 1,400 Brevard County residents have been trained as Oyster Gardeners or Oyster Buddies raising and returning over 463,000 oysters to the IRL.

Oyster Gardening is a citizen-based oyster propagation program where juvenile oysters (spat) are raised under lagoon-front homeowner's docks and eventually used to populate constructed oyster reef sites. Oyster Gardening participants receive spat-on-shell oysters plus all supplies needed to care for their oysters until they are returned six to nine months later at a significantly larger size and placed at new reef sites in the lagoon. Oyster Gardening workshops are held throughout the county to increase and accommodate public interest, and to provide training and education about oyster gardening, oyster reef living shorelines, and issues facing the lagoon.

The program cost would be \$150,000/year. Based on previous years' estimated annual oyster production, a seeding density on oyster bars of 9.3 oysters per square foot (100 oysters per square meter), and a total nitrogen reduction of 0.04 pounds of TN per square foot, this equates to a cost share of \$452 per pound per year of TN reduction. However, as these oysters multiply and cover a larger footprint, their annual denitrification benefit will grow over time.



Save Our Indian River Lagoon
Citizen Oversight Committee
April 17, 2020

Agenda Item:

VIII. b. New Business

Title:

Full Allocation of Projected Save Our Indian River Lagoon Trust Fund Revenues

Requested Action:

After hearing a presentation on unfunded project opportunities, motion to recommend allocating funds to the following list of projects:

1. (to be determined by the Committee)
2. (to be determined by the Committee)
3. (to be determined by the Committee)
4. (to be determined by the Committee)
5. (to be determined by the Committee)

Summary Explanation and Background:

Each year, new information and project opportunities are incorporated into the Save Our Indian River Lagoon Project Plan through an annual update. On January 17, 2020, the Citizen Oversight Committee recommended an update that allocated all but \$6 million of the revenue stream anticipated to be collected over the 10-year life of the tax. The Committee's recommended 2020 Plan Update was approved and adopted by the County Commission on March 10, 2020, however the Commission asked the Committee to proceed with recommending how to allocate the remaining \$6 million.

As of January 2020, the total revenue expected from the ten-year surtax was \$494 million, including economic growth and inflation. The total cost of projects, performance measures and reserves included in the 2020 Plan Update, with inflation, was \$484 million. The plan also includes many unfunded projects to be considered in the future if additional fund become available. Additional project opportunities are collected from municipalities, county departments and the community each year in order to ensure that funds are allocated to the most timely and cost effective projects located throughout the County.