

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

January 17, 2020 – 8:30 to 11:30 am
Brevard County Government Center
2725 Judge Fran Jamieson Way
Building C, 1st Floor, Commission Chambers
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. December 2020 Progress Report – Virginia Barker
 - b. Monthly Revenue Graph – Crystal Melton, Fiscal Analyst
- VI. Other Reports and Special Presentations
 - a. Water Less: Four Strategies to Decrease Your Home's Water Use – Dr. Jennifer Mitchell, St. Johns River Water Management District
 - b. 2019 Save Our Indian River Lagoon Communication Survey – Holly Abeels, Florida Sea Grant Extension Agent
- VII. Old Business
- VIII. New Business
 - a. Draft Save Our Indian River Lagoon Project Plan 2020 Update – Marcy Frick, Tetra Tech Inc.
- IX. General Public Comments
- X. Final Comments by Chair and Committee Members
- XI. Adjournment

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

December 13, 2019 – 8:30 a.m. – 11:30 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	Yes	Vinnie Taranto	Yes
Education	Stephany Eley	Yes	Melissa Martin	Yes
Finance	Courtney Barker	Yes	Todd Swingle	Yes
Tourism	David Lane - Chair	Yes	Laurilee Thompson	Yes
Real Estate	Jay Moynahan	Yes	Dennis Basile	Yes
Lagoon Advocacy	John Windsor - Vice Chair	Yes	Terry Casto	No

Staff Present:

Virginia Barker, Brevard County Natural Resources Management Director
 Alex Essesse, Assistant County Attorney
 Walker Dawson, Engineer III, Muck Dredging
 Courtney Maier, Engineer I, Stormwater
 Anthony Gubler, Environmental Specialist
 Brandon Smith, Environmental Specialist
 Matt Badolato, Associate Environmental Specialist
 Jenny Hansen, Environmental Specialist
 Jeff Rapolti, Engineer
 Robbyn Spratt, Lead Engineer
 Crystal Melton, Fiscal Analyst

I. Call to Order

II. Roll Call

A quorum was established.

III. Approval of the Agenda

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

IV. Approval of Minutes

John Windsor moved to approve the October 18, 2019 minutes as written; Seconded by Stephany Eley. Motion was unanimously approved.

V. Monthly Progress and Fiscal Reports – Virginia Barker, Director

a. December 2019 Progress Report

The Monthly Progress Report was given by Virginia Barker

Discussion ensued. The Committee's questions were answered by Ms. Barker.

Virginia Barker gave an update on the beaches leaky sewer laterals and noted that fifteen repairs were completed. Ms. Barker mentioned that the County Commission is considering an ordinance that might mandate repairs in the near future.

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

Courtney Barker moved to recommend that the Citizens Oversight Committee endorses the County creating an ordinance that would mandate leaky lateral repair county-wide; Seconded by John Windsor. Motion was unanimously approved.

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 Statement – Crystal Melton, Fiscal Analyst

Crystal Melton reported on the Quarterly Financial Statement.

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

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

The quarterly update of the Save Our Indian River Lagoon Project Performance Table was given. The update included: 1) Stormwater projects update by Courtney Maier, Jeff Rapolti, and Robbyn Spratt; 2) Muck Dredging projects update by Walker Dawson; 3) Sewer projects update by Anthony Gubler; 4) Living Shoreline Projects update by Jenny Hansen; and, 5) Municipalities and Marine Resources Grass Clippings project update by Terry Breeden, Wayne Carragino, City of Cocoa Beach, and Dani Straub, City of Melbourne.

There was some discussion and the Committee's questions were answered by County Staff, Wayne Carragino and Dani Straub.

VI. Other Reports and Special Presentations

a. Living Shoreline Monitoring – Dr. Linda Walters, Pegasus Professor of Biology, University of Central Florida, and Dr. Melinda Donnelly, Postdoctoral Fellow, University of Central Florida

Dr. Walters and Dr. Donnelly gave a power point presentation on Living Shoreline Monitoring. Topics included: 1) Oyster Reef Restoration in the Mosquito Lagoon; 2) New Challenges in Brevard County; 3) Oyster Life Cycle; 4) Oyster Survival and Recruitment at the Bomalaski, Bettinger, Gitlin and Marina Isles sites; 5) Plant-Only Sites; 6) Plant Survival at 12 Months; 7) Lessons Learned; and, 8) Alternative Materials Testing in Mosquito Lagoon

Discussion ensued. The Committee's questions were answered by Dr. Donnelly, Dr. Walters, and Virginia Barker.

b. Preliminary Results from the Leaky Lateral Groundwater Monitoring – Dr. Claudia Listopad, B.I.S.P., Applied Ecology, Inc.

Dr. Listopad gave a power point presentation entitled Groundwater Monitoring of Sewer Lateral Retrofit Projects. Dr. Listopad gave a brief background on thirty broken laterals identified in smoke testing from March through July, 2018. Topics include: 1) Private Lateral Replacement Grant Program Monitoring; 2) Methodology; 3) Sampling Design; 4) Sample Collection; 5) Take-Home Message from The Results; 6) Mean Preliminary Results; and, 7) Comparison of Leaky Lateral Groundwater to County-wide Groundwater Study data.

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

c. The Benefits of Smoke Testing Projects, Edward Fontanin, P.E., Director of Brevard County Utility Services

Mr. Fontanin gave a presentation on The Benefits of Smoke Testing Projects

Discussion ensued. The Committee's questions were answered by Mr. Fontanin

VII. Old Business

None.

VIII. New Business

a. 2020 Meeting Calendar

The Save Our Indian River Lagoon Citizens Oversight Committee 2020 meeting schedule was presented. It was noted that the meetings would continue to be held on the third Friday of each month, with the exception of the June break. Meetings will be held in the Florida Room, with the exception of the January 17, 2020 meeting, which will be held in the Commission Chambers.

John Windsor moved to approve the Save Our Indian River Lagoon Citizens Oversight Committee 2020 Meeting Schedule as presented; Seconded by Lorraine Koss. Motion was unanimously approved.

b. 2020 Project Funding Requests

Virginia Baker gave a brief power point introduction on the 2020 Project Funding Requests process. The Committee was provided with a copy of a table sequencing the projects that deliver comparable nutrient removal benefits which may be added or substituted in the same sub-lagoon. Ms. Barker reported on the 10 Year Revenue Projections and the 2020 Plan Update Available funds. It was noted that the Marine Resources Council Riverside Landing Living Shoreline Project was withdrawn.

Discussion ensued. The Committee's questions were answered by Virginia Barker and Edward Fontanin.

John Windsor moved to extend the meeting for thirty minutes; Seconded by Courtney Barker. Motion was unanimously approved.

There was further discussion.

Courtney Barker moved to extend the meeting for thirty minutes; Seconded by Lorraine Koss. Motion was unanimously approved.

Courtney Barker moved to recommend modification of the Save Our Indian River Lagoon Project Plan to include all the projects listed in the 2020 Project Funding Requests through project number 157 with the recommendation that Brevard County Utilities seeks matching funds and the acknowledgement that the Committee would recommend project replacements in the future if there is no progress on the project and a better project request comes before the Committee; Seconded by Lorraine Koss. Discussion ensued.

Courtney Barker amended the motion to recommend modification of the Save Our Indian River Lagoon Project Plan to include all the projects listed in the 2020 Project Funding Requests through project number 153 with the exception of project numbers 126 and 137, and with the recommendation that Brevard County seeks matching funds and the acknowledgement that the Committee would recommend project replacements in the future if there is no progress on the project and a better project request comes before the Committee; Seconded by Lorraine Koss. Discussion regarding smoke testing projects ensued.

Public Comments were heard.

The amended motion was unanimously passed

Stephany Eley moved to extend the meeting for fifteen minutes; Seconded by Lorraine Koss. Motion was unanimously passed.

c. Request for Additional Funding for the City of Titusville Osprey Wastewater Treatment Facility Nutrient Removal Project

Sean Stauffer, Utility Director, City of Titusville spoke briefly about the City of Titusville's request for a ten percent increase in funding for the City's Osprey Wastewater Treatment Facility Nutrient Removal Project.

Discussion ensued. The Committee's questions were answered by Mr. Stauffer

John Windsor moved to recommend to the Brevard County Commission approval of additional funding for the Titusville Osprey Wastewater Treatment Facility Nutrient Removal Project; Seconded by Melissa Martin.

Discussion ensued. The Committee's questions were answered by Mr. Stauffer and Virginia Barker.

There were no Public Comments.

Motion was unanimously approved.

IX. General Public Comment

Public Comments were heard.

X. Final Comments by Chair and Committee Members

Final Comments were heard.

XI. Adjournment



Save Our Indian River Lagoon Project Plan January 2020 Progress Report

WORK COMPLETED THIS MONTH:

- Draft Save Our Indian River Lagoon Project Plan 2020 Update prepared
- Stormwater catchment basin loading model updated county-wide
- Sykes Creek Zones N Septic-to-Sewer – Right of Way permit received; being prepared for bidding
- Ten county stormwater basin treatment projects were bid and will be awarded to 2 contractors
- Cocoa Beach Muck Dredging - Phase III complete
- Sykes Creek Muck Dredging – Phase I bid advertised, pre-bid meeting held
- Titusville Railroad Bridge East and West –Bathymetric and muck survey data received
- NASA Causeway East–Bathymetric and muck survey data received
- Mathers Bridge Area Muck Removal – Additional survey data collected
- Derelict Vessels – 5 additional derelict vessels removed
- Video production bid was awarded to 142 Productions; kickoff meeting was held
- Contract executed for Melbourne Grant St. Water Reclamation Facility
- Contracts executed for Indian Harbour Beach Big Muddy, Muck Dredging and Interstitial Treatment
- Contracts executed with Brevard Zoo for Banana River Plants, North IRL Plants, and North IRL Oysters

WORK UNDERWAY THIS MONTH:

- Palm Bay North Region Water Reclamation Facility - design and permitting complete, bid is posted
- Beaches Leaking Sewer Laterals – 15 repairs complete; ordinance tabled that might mandate repairs
- Cone Road Septic-to-Sewer –3 properties connected
- South Central C Septic-to-Sewer – 90% design under review by Utility Services
- Sykes Creek Zone M and T- reviewing 30% design, discussing powerline & pole relocates with FPL
- Titusville Zones A-G Septic to Sewer - contract out to city for signatures
- West Melbourne Sylvan Estates Septic to Sewer - construction has started
- Micco Sewer Service Extension – responses to agency permit questions underway
- Johns Road and Flounder Creek - permitting underway; bid documents being prepared
- Basin 1409 and 1349 – permitting and easement acquisition underway
- Kingsmill-Aurora Phase II – design underway, additional survey being scheduled
- Year 3 Stormwater Basins - surveys are being scheduled to determine any land acquisition needs
- Grand Canal Muck Dredging –hauling dredged material during manatee closure, continuing to collect dredge waivers from homeowners, and seeking permission to add the Berkeley Canal to the permit
- Merritt Island Muck Dredging – All permits in place. Spoil site development underway.
- University of Central Florida researchers observed large recruitment and bridging at 1 site
- Palm Bay withdrew Turkey Creek Living Shoreline Oyster and Plants Project
- Story Map – working on a new layer to show reclaimed water areas and their nutrient content



PRESENTATIONS THIS MONTH:

January 15 – Oyster Restoration Presentation at the Archie Carr Working Group Meeting – Jenny
January 22 – Lagoon Straight Talk – Virginia & Brandon

UPCOMING LAGOON SCIENCE FORUMS AND PUBLIC EVENTS:

1/22, Lagoon Straight Talk, Satellite Beach High <https://www.facebook.com/events/638042817007270/>
2/4, Marine Resources Council Brown Bag Lunch: Florida Wildlife Hospital Speaker
2/13-14, Indian River Lagoon Symposium <http://www.indianriverlagoon.org/symposium.html>

UPCOMING VOLUNTEER PARTICIPATION OPPORTUNITIES:

Brevard Zoo – Oyster Reef Monitoring, 1/25 - <https://restoreourshores.org/volunteer-we-need-you/>
Keep Brevard Beautiful – Pineda Causeway Cleanup 2/12 – <https://keepbrevardbeautiful.org/events>
Lagoon Friendly Lawns – contact Kaylyn Palmer of Keep Brevard Beautiful at 321-631-0501
Fish Kill Response Cleanup: contact Desiree Lesko of Keep Brevard Beautiful at 321-631-0501
Marine Resources Council – Lagoon Watch, Mangrove, or Lagoon Literacy - <https://savetheirl.org/volunteer/>
Lagoon Litter Patrol, Lagoon House, 1/11 9:30-11:00am
UF/IFAS Brevard County Extension – Horseshoe Crab Watch Volunteer Training, 1/14 -
<https://www.facebook.com/events/2426707010925980/>

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:

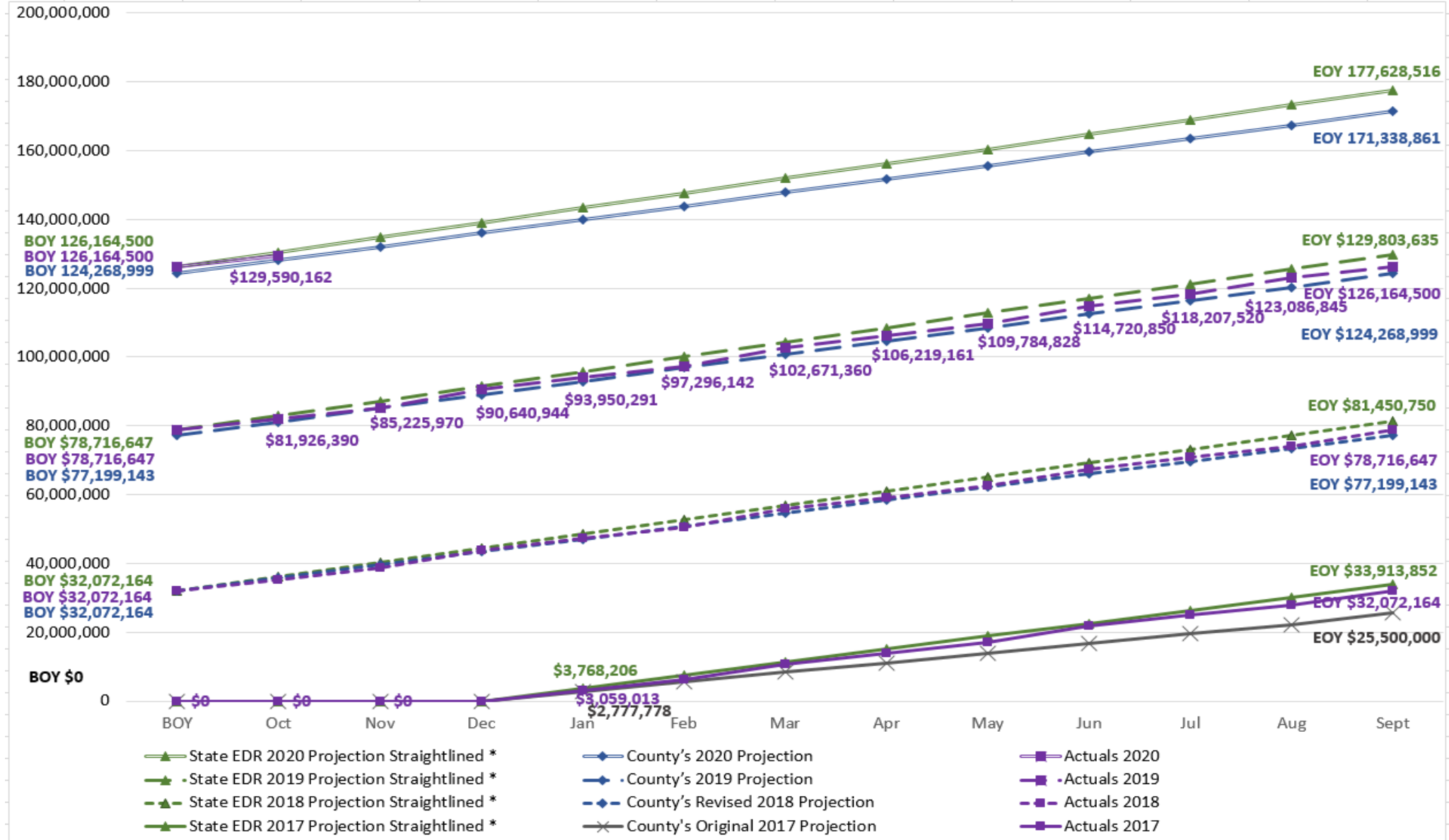
1. A Day in the Life of the Indian River Lagoon – Missy Weiss
2. Ecological modeling of 528 and 520 Banana River Causeway Reductions – Dr. Sherry Brant-Williams
3. Tourism + Lagoon grant projects – Using Super Clams for Restocking Efforts
4. Ongoing Research on Charismatic Critters of the Lagoon – Hubbs SeaWorld Research Institute
5. New Enhanced Ocean Inflow Research – Florida Tech Research Initiative
6. Wastewater Utility Asset Management Planning – Todd Swingle
7. Indian River Lagoon Research News: TechCon, ShORE, and Harbor Branch Symposium Highlights
8. Completed and Ongoing Muck Research – Florida Tech Research Initiative & Dr. Drew Palmer
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., Aqualutions, 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. Low Impact Development – Local examples
16. Project Monitoring Results
17. 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		\$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		\$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		\$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

* 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 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
January 17, 2020

Agenda Item:

VIII. a. New Business

Title:

Draft Save Our Indian River Lagoon Project Plan 2020 Update

Requested Action:

After hearing a presentation on the proposed changes contained within the draft document, motion to recommend the *Save Our Indian River Lagoon Project Plan 2020 Update* to the Brevard County Commission for their consideration and adoption.

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. The proposed draft incorporates new information, projects and modifications. Draft changes to the plan are presented, discussed, and may be modified by the Citizen Oversight Committee. During the December 2019 Citizen Oversight Committee meeting, forty-three (43) new projects were recommended for incorporation into the draft 2020 plan update. The Committee recommends an annual update of the Save Our Indian River Lagoon Project Plan to the County Commission for adoption.

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

The total revenue expectation from the ten-year surtax is increased to \$494 million, including economic growth and inflation. The total cost of projects, performance measures and reserves included in the proposed draft, with inflation, is \$484 million.