# Brevard County's SOLVE OWN LAGOON



Quarterly Progress Report

October 1 – December 31, 2022

February 17, 2023

# **Public Education**

### **Expanded Fertilizer**

• 67% complete

## **Grass Clippings**

• 57% complete

### **Septic Maintenance**

• 67% complete

#### **Restore Our Shores**

15% complete

## **Oyster Gardening**

• 100% complete

5 Projects (1 complete, 4 underway) \$2,425,000 Total Budget 28,879 TN Load reduction Avg Cost = \$84/lb TN



# WWTF Upgrades for Reclaimed Water

6 Projects \$25,964,195 Total Budget 69,823 lbs/yr TN Load Reduction Avg Cost = \$383/lb TN



#### 2 Complete

Cocoa Beach

Palm Bay

#### 2 In Construction

Titusville Osprey

Rockledge

#### 2 In Design

West Melbourne Ray Bullard Melbourne Grant St



# Rapid Infiltration Basin/Sprayfield Upgrades

2 Projects \$82,207 Total Budget 317 lbs/yr TN Reduction Avg Cost = \$259/lb TN

#### **Completed:**

Long Point Park Upgrade
• \$22,207

#### **Uncontracted:**

**Sterling House Condo** 



# Package Plant Connections

#### **Completed:**

#### **Oak Point Mobile Home Park**

• 100% construction complete



# 3 Projects \$2,157,072 Total Budget 2,003 lbs/yr TN Reduction Avg Cost = \$1,007/lb TN

#### **Uncontracted**

**Merritt Island Utility Company (withdrawn)** 

• \$1,349,445

**Indian River Shores Trailer Park WWTF** 

• \$528,627

# Smoke Testing/Sewer Laterals

#### **Completed:**

- Satellite Beach Pilot Smoke Testing
- Barefoot Bay Lateral Smoke Testing
- South Beaches Lateral Smoke Testing
- Merritt Island Lateral Smoke Testing



\$1,580,000 Total Budget
5,696 lbs/yr TN Reduction
Avg Cost = \$255/lb
Over 40,000 homes

#### **Underway:**

- County Wide Repairs
  - o 566 Missing Caps Replaced
  - o 212 Repair/Replacements Completed

#### **Uncontracted:**

Osprey Basin Smoke Testing

# Septic Removal

#### 8 In Construction Phase

- South Central Zone C
  - 82% of Construction Complete
- Micco Sewer Line Extension (Phase I & II)
  - 1% of Construction Complete
- Kent & Villa Espana Septic to Sewer
  - Villa Espana Force Main Complete
- South Central Zone F/Pineapple Avenue
  - 5 of 61\* Connections Complete
- Hoag Sewer Conversion
  - 3 of 5 Connections Complete
- Pennwood Sewer Conversion
  - 2 of 5 Connections Complete
- Riverside Drive Septic-to-Sewer Conversion
  - 1 of 12 Connections Complete
- Roxy Avenue Septic-to-Sewer Conversion
  - 2 of 6 Connections Complete

# 42 Projects \$119,645,660 Total Budget 95,078 lbs TN Reduction Avg Cost = \$1249/lb TN

#### **3 Completed Projects**

- Breeze Swept
- MIRA
- Sylvan Estates

#### 2 In Bidding Phase

- South Beaches Zone O
  - Re-bid w/ Zone P
- South Beaches Zone P
  - Preparing to Bid

#### 19 In Design Phase

10 Uncontracted

# Septic Upgrades & Quick Connects

1,625 Septic Upgrades 876 Quick Connects \$770/lb \$526/lb

37,981 lbs/yr TN Reduction 21,527 lbs/yr TN Reduction

Project Number	Project	Responsible Entity	Save Our Lagoon Project Cost	Applications Contracted		Total TN Reduction (lbs/yr)
51	Banana River Lagoon 100 Septic System Upgrades	Private Citizens	\$1,800,000	18	10	193
52	North IRL 586 Septic System Upgrades	Private Citizens	\$10,548,000	74	40	946
53	Central IRL 939 Septic System Upgrades	157	68	1607		
	Septic System Upgrades Total		\$29,233,106	249	118	2746
2016-16	Banana Septic System 144 Quick Connections	Private Citizens	\$ 1,905,729	7	3	67
2016-18	North IRL Septic System 463 Quick Connections	Private Citizens	\$ 6,018,000	48	41	1004
2016-19	Central IRL Septic System 269 Quick Connections	Private Citizens	\$ 3,354,000	8	2	51
222	Hedgecock/Grabowsky & Desoto Fields	Satellite Beach	\$ 39,447	1	0	0
	Septic System Removal by Sewer Connection Total		\$11,317,176	64	46	1122

# **Stormwater Projects**

233 Projects \$48,441,724 Total Budget 280,134 lbs TN Reduction Avg Cost = \$175/lb TN

#### 38 Completed Projects

#### 3 In Construction Phase

- Basin 89 Scottsmoor I Aurantia Road Denitrification
- Satellite Beach Lori Laine Project
- Crane Creek/M-1 Canal Flow Restoration

#### 11 In Design





# Vegetation Harvesting 9 Projects (4 complete) \$1,374,296 Total Budget 25,600 lbs/yr TN Reduction Avg Cost = \$70/lb TN





#### In Design Phase:

- Basin 1398 Sand Dollar
- Basin 958 Pioneer Rd

#### **In Construction Phase**

MTWCD

#### THIS QUARTER:

245,200 lbs of vegetation harvested Estimated TN Reduction: 2,354 lbs 53% complete

#### **TOTAL:**

929,760 lbs of vegetation harvested Estimated TN Reduction: 8,833 lbs



## Muck Removal & Interstitial Treatment

19 Projects (4 complete) \$155,577,961 Total Budget 692,006 lbs/yr TN Reduction Avg Cost = \$520/lb TN for Dredging Avg Cost = \$98/lb TN for Treatment

#### In Construction Phase:

- Grand Canal
  - 255,790 cubic yards of material dredged
- Sykes Creek
  - 28,000 cubic yards of material dredged

#### **In Bidding Phase**

Eau Gallie Northeast



#### **In Design Phase**

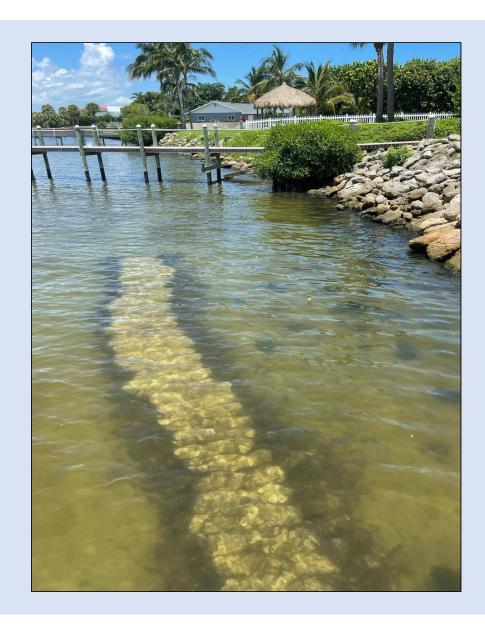
- Rockledge A
- Titusville Railroad West
- NASA Cswy East
- Titusville Railroad East
- Canaveral South
- Merritt Island Phase I
- Cocoa Beach Golf Muck
- Indian Harbour Beach Canals
- Satellite Beach

**Oyster Bars** 

25 Projects (8 complete) \$9,809,545 Total Budget 24,699 lbs/yr TN Reduction Avg Cost = \$397/lb

#### **In Construction Phase:**

- Brevard Zoo Banana River
- Brevard Zoo CIRL 2
- Brevard Zoo NIRL
  - 1,857 sqft this quarter
- Brevard Zoo NIRL 2
- Brevard Zoo NIRL 3
- McNabb Oyster Bar



# Clam Aquaculture

10 Farms \$60,000 Total Budget 1,000 lbs/yr TN Reduction Avg Cost = \$60/lb TN

- 3 Active Farmers
- Looking for 7 more



# Planted Shorelines

11 Projects (7 complete) \$130,455 Total Budget 544 lbs/yr TN Reduction Avg Cost = \$240/lb TN

#### In Design:

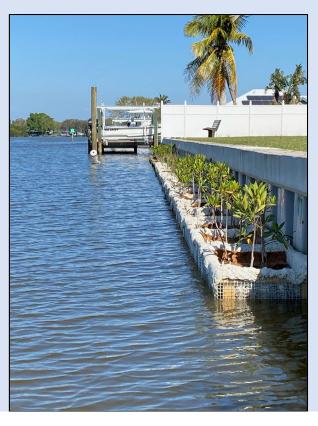
Titusville Causeway Multi-Trophic Restoration

#### **2** Uncontracted:

- Scottsmoor Impoundment
- Melbourne Riverview Park

#### 1 In Construction:

- McNabb
- 18 additional planter boxes installed
- Rhizolith Islands to be installed next quarter



# <u>Overview</u>

Totals	Total TN Reduction (lbs/yr)	Total TP Reduction (lbs/yr)	Scopes of Work Received	Contracts Executed	Projects in Design	Projects Under Construction	Projects Complete
Total as of Previous Quarter	159,557	11,144	145	137	134	95	69
Total as of This Quarter	178,579	12,000	151	150	150	100	72