



# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

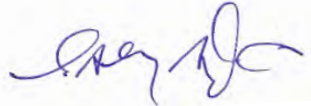
D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

**AGENDA**  
**REGULAR MEETING #07-2022**  
**MAY 19, 2022 – 7:00 PM AT DISTRICT OFFICES**  
ALSO, THE MEETING WILL BE AVAILABLE TO THE PUBLIC ONLINE AT:  
**LOXAHATCHEERIVER.ORG/PUBLICMEETING**

1. Call to Order & Pledge of Allegiance
2. Administrative Matters
  - A. Roll Call
  - B. Previous Meeting Minutes Page 3
  - C. Additions and Deletions to the Agenda
3. Comments from the Public
4. Status Updates
  - A. Loxahatchee River Watershed Page 11
  - B. Loxahatchee River District Dashboard Page 12
5. Consent Agenda (see next page)
6. Regular Agenda
  - A. Consent Agenda Items Pulled for Discussion
  - B. Greenhouse Gas Memo – Potential Project Initiatives Page 55
  - C. 2500 Jupiter Park Drive Site Plan – Conceptual Site Plan Option Presentation Page 57
7. Reports (see next page) Pulled for Discussion
8. Future Business Page 113
9. Board Comments
10. Adjournment

“...if a person decides to appeal any decision made by the Board, with respect to any matter considered at such meeting or hearing, he/she will need a record of the proceedings, and that, for such purpose, he/she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.”

Submitted by:   
Date: May 9, 2022

**James D. Snyder**  
CHAIRMAN

**Gordon M. Boggie**  
BOARD MEMBER

**Stephen B. Rockoff**  
BOARD MEMBER

**Dr. Matt H. Rostock**  
BOARD MEMBER

## 5. CONSENT AGENDA

All items listed in this portion of the agenda are considered routine and will be enacted by one motion. There will be no separate discussion of these items unless requested by a Board member or citizen; in which event, the item will be removed and considered under the regular agenda.

- A. Environmental Education Policy – to approve revisions [Page 14](#)
- B. Lift Station Cellular Telemetry Construction Contract – to approve contract [Page 19](#)
- C. Lift Stations 160 and 296 Emergency Generator and ATS Installations – to approve contract [Page 23](#)
- D. Clarifier #3 Rehabilitation – to approve construction contract [Page 25](#)
- E. Notice of Intent – 18150 SE Woodbridge Ln [Page 29](#)
- F. Odor Control (Evoqua) – to approve contract extension [Page 37](#)
- G. Fixed Asset Disposal – to approve disposal [Page 43](#)
- H. Change Order – Engineering Services Contract BLM House Renovation [Page 44](#)  
– 21-008-00107-WWSH Hauling of Liquid Domestic Wastewater,  
Sludge and Collection System Debris [Page 50](#)

## 7. REPORTS

- I. Neighborhood Sewering [Page 59](#)
- J. Legal Counsel's Report [Page 61](#)
- K. Engineer's Report [Page 64](#)
- L. Busch Wildlife Sanctuary [Page 71](#)
- M. Director's Report [Page 72](#)



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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

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## MEMORANDUM

TO: Governing Board  
FROM: Recording Secretary  
DATE: May 19, 2022  
RE: Approval of Meeting Minutes

Attached herewith are the minutes of the Public Hearing and Regular Meeting of March 17, 2022. As such, the following motion is presented for your consideration:

**“THAT THE GOVERNING BOARD approve the minutes of the March 17, 2022 Public Hearings for LRD Rule Chapter 31-10, Rates, Fees and Charges and Final Assessment of 181st Street North and Regular Meeting as submitted.”**

James D. Snyder  
CHAIRMAN

Gordon M. Boggie  
BOARD MEMBER

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER

Ref. 02-2022

**LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT  
PUBLIC HEARING – MINUTES  
MARCH 17, 2022**

1. CALL TO ORDER AND PLEDGE OF ALLEGIANCE

Chairman Snyder called the Public Hearing of March 17, 2022 to order at 6:56 P.M.

2. ROLL CALL

The following Board Members were in attendance:

Mr. Boggie  
Mr. Rockoff  
Dr. Rostock  
Mr. Snyder

3. TO RECEIVE PUBLIC COMMENTS PERTAINING TO THE REVISION OF LRD  
RULE CHAPTER 31-10, SCHEDULE OF RATES, FEES AND CHARGES

No comments from the public were received.

4. COMMENTS FROM THE BOARD

No comments from the Board were received.

5. ADJOURNMENT

Chairman Snyder adjourned the Public Hearing at 6:58 P.M.

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BOARD CHAIRMAN

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BOARD SECRETARY

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RECORDING SECRETARY

Ref. 03-2022

**LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT  
PUBLIC HEARING – MINUTES  
MARCH 17, 2022**

1. CALL TO ORDER AND PLEDGE OF ALLEGIANCE

Chairman Snyder called the Public Hearing of March 17, 2022 to order at 6:58 P.M.

2. ROLL CALL

The following Board Members were in attendance:

Mr. Boggie  
Mr. Rockoff  
Dr. Rostock  
Mr. Snyder

3. TO RECEIVE PUBLIC COMMENTS PERTAINING TO THE FINAL ASSESSMENT  
OF 181<sup>ST</sup> STREET N.

No comments from the public were received.

4. COMMENTS FROM THE BOARD

No comments from the Board were received.

5. ADJOURNMENT

Chairman Snyder adjourned the Public Hearing at 6:59 P.M.

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BOARD CHAIRMAN

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BOARD SECRETARY

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RECORDING SECRETARY

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT  
REGULAR MEETING - MINUTES  
MARCH 17, 2022

1. CALL TO ORDER

Chairman Boggie called the Regular Meeting of March 17, 2022 to order at 7:00 PM and explained the various methods of attending the meeting (in person, electronically or telephonically).

2. ADMINISTRATIVE MATTERS

A. ROLL CALL

The following Board Members were in attendance:

Mr. Rockoff  
Dr. Rostock  
Mr. Snyder  
Mr. Boggie

Staff Members in attendance were Dr. Arrington, Mr. Dean, Mr. Howard, Ms. Fraraccio and Mr. Pugsley (via Goto Webinar).

Consultants in attendance were Mr. Hunter Shenkman from Shenkman Law, P.A., Courtney Marshall from Baxter & Woodman (via GotoWebinar), Stephanie Ishii, Hazen and Sawyer, Henry Thomas and Trevor McCarthy, Raftelis Financial Consultants.

B. PREVIOUS MEETING MINUTES

The minutes of the Public and Regular Meeting of February 17, 2022 were presented for approval and the following motion was made:

“THAT THE GOVERNING BOARD approve the minutes of the February 17, 2022 Public Hearing and Regular Meeting as submitted.”

MOTION: Made by Mr. Rockoff, Seconded by Dr. Rostock  
Passed Unanimously.

C. ADDITIONS & DELETIONS TO THE AGENDA

3. COMMENTS FROM THE PUBLIC

No comments from the public were received.

#### 4. STATUS UPDATES

##### A. LOXAHATCHEE WATERSHED STATUS

Dr. Stephanie Ishii, Hazen and Sawyer, presented key findings from the Loxahatchee River Environmental Control District Regional Wastewater Treatment Facility Operational Greenhouse Gas and Cost Assessment.

##### B. LOXAHATCHEE RIVER DISTRICT DASHBOARD

Dr. Arrington reviewed the District Dashboard.

#### 5. CONSENT AGENDA

MOTION: Made by Mr. Rockoff, Seconded by Mr. Boggie,  
Passed unanimously.

“THAT THE GOVERNING BOARD approve the Consent Agenda of March 17, 2022 as presented.”

The following motions were approved as a result of the Board’s adoption of the Consent Agenda:

##### A. Final Assessment 181st Street – to approve assessment

"THAT THE GOVERNING BOARD approve Resolution 2022-04 adopting the 181st ST. N. FINAL Assessment Roll and Exhibits."

##### B. 5331 Center Street Notice of Intent to Assess (Res. 2022-03)

" THAT THE GOVERNING BOARD approve Resolution 2022-03 the NOTICE OF INTENT to Assess, the Pending Lien Notice, and the Exhibits for the 5331 CENTER STREET Assessment Area."

##### C. Lift Station 082 Conversion – to reauthorize engineering services contract

“THAT THE DISTRICT GOVERNING BOARD authorize work authorization 2020-8 with Holtz Consulting Engineers for additional services during construction in the amount of \$14,000.00 and a contingency amount of \$7,500.00”

##### D. Personnel Policies & Procedures Section 3.3 Work Week – to approve revisions

“THAT THE DISTRICT GOVERNING BOARD ratify and approve the Loxahatchee River Environmental Control District’s Personnel Policies & Procedures Section 3.3 – Work Week as revised with an effective date of March 19, 2022 and authorize the District’s Executive Director to update the Personnel Policies & Procedures from time to time, and periodically present it to the Governing Board for ratification and approval.”

E. WastePro Contract – to approve annual renewal

“THAT THE DISTRICT GOVERNING BOARD authorize the Executive Director to execute a contract extension with Waste Pro of Florida for Bid Item No’s. 2 through 8 as outlined in ITB No. 19-001 and in accordance with the contract specifications and the rates specified within their Bid dated February 6, 2019 including a 5.0% increase per the June 2021 Consumer Price Index.”

F. Fixed Asset Disposal – to approve disposal

No Fixed Assets are presented for Disposal this month.

G. Change Orders to Current Contracts – to approve modifications

No Change Orders are presented for Board consideration this month.

6. REGULAR AGENDA

A. CONSENT AGENDA ITEMS PULLED FOR DISCUSSION

B. Jupiter Inlet Lighthouse Outstanding Nature Area (JILONA) Septic to Sewer – Award Construction Contract

“THAT THE DISTRICT GOVERNING BOARD award ITB 21-006-00105 to Prince Land, Inc. in the amount of \$1,154,609.00 and a contingency in the amount of \$115,000.00.”

MOTION: Made by Mr. Boggie, Seconded by Mr. Rockoff, Passed unanimously.

C. JILONA Septic to Sewer – Award Engineering Services During Construction

"THAT THE DISTRICT GOVERNING BOARD authorize work authorization 2020-7A with Holtz Consulting Engineers for services during construction in the amount of \$88,275.00 and a contingency of \$9,000.00.”

MOTION: Made by Mr. Rockoff, Seconded by Mr. Boggie, Passed unanimously.

D. Liability and Workers Compensation Insurance

" THAT THE DISTRICT GOVERNING BOARD authorize the Executive Director to accept and purchase Preferred’s renewal quote for Property, General Liability, Automobile Liability and Physical Damage, and Workers’ Compensation; accept and purchase Chubb Insurance’s renewal quote for Pollution Liability; and accept and purchase Travelers’ renewal quote for Fiduciary Liability insurance.”

MOTION: Made by Mr. Boggie, Seconded by Dr. Rostock, Passed unanimously.



E. 66th Terrace Phase1 Sub-Regional Line Charge

Mr. Dean discussed the drafted proposed revisions to Rule 31-10.005(5) incorporating the 66th Terrace Phase 1 Subregional Line Charges at \$622.02 per equivalent connection. Pursuant to existing rule language, subregional line charges are adjusted annually based on the 10-Year Treasury Rate published by the US Department of Treasury on February 1st.

No motion required

F. Chapter 31-10, Schedule of Rates, Fees and Charges

“THAT THE DISTRICT GOVERNING BOARD approve Rule Chapter 31-10 Rates, Fees, and Charges, as revised, with an effective date of April 1, 2022.”

MOTION: Made by Dr. Rostock, Seconded by Mr. Rockoff, Passed unanimously.

7. REPORTS

The following reports stood as written.

A. NEIGHBORHOOD SEWERING

B. LEGAL COUNSEL’S REPORT

C. ENGINEER’S REPORTS

D. BUSCH WILDLIFE SANCTUARY

E. DIRECTOR’S REPORT

8. FUTURE BUSINESS

Dr. Arrington reviewed Future Business.

9. COMMENTS FROM THE BOARD

10. ADJOURNMENT

MOTION: Made by Mr. Rockoff, Seconded by Mr. Boggie,  
Passed Unanimously.

“That the Regular Meeting of March 17, 2022 adjourns at 8:16 PM.”

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BOARD CHAIRMAN

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BOARD SECRETARY

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RECORDING SECRETARY



## Loxahatchee River Watershed Status

### Wastewater Treatment Plant Process Upset Debrief


#### May 2022 Governing Board Meeting

On March 2, 2022, the District experienced a significant process upset at their 11.0 million gallons per day (MGD) wastewater treatment facility. The process upset was first detected when an unusually high influent wastewater pH was reported at the plant headworks. Shortly after this high pH was reported the dissolved oxygen concentration within the aeration basins decreased rapidly. The plant Operators made the appropriate adjustments to specific plant operating setpoints to attempt to counteract the decreasing D.O. concentrations and were successful in reestablishing an appropriate concentration. However, the Operators then noticed the effluent quality of the Irrigation Quality (IQ) being produced was degrading. In response, Operations made the decision to take the IQ process systems (i.e., tertiary filters and chlorine disinfection system) offline and all secondary effluent was conveyed to the Deep Injection Well for disposal for a period of 5-days. The Watershed Status this month will provide a detailed timeline of the events which occurred during the process upset, steps taken to address it and a discussion regarding the root cause identified.





# LOXAHATCHEE RIVER DISTRICT'S EXECUTIVE DASHBOARD

		Stewardship	Pre-Treatment	Collection & Transmission		Wastewater Treatment			Reclaimed Water	EHS	General Business					River Health			
		# People educated at RC	Grease Interceptor Inspections	Customer Service	Unauthorized Discharge of Sewage	Mean Daily Incoming Flow	Permit exceedance	NANO Blend to Reuse (@ 511)	Delivery of Reclaimed Water	Employee Safety	Cash Available	Revenue (excluding assessment & capital contrib.)	Operating Expenses	Capital Projects		Minimum Flow Compliance	Salinity @ NB seagrass beds	River Water Quality	
Units		% of Target	% requiring pump out	# blockages with damage in home	Gallons; # impacting surface waters	million gallons/day	# occurrences	Max Specific Conductance (umhos/cm)	# days demand not met	# of OSHA recordable injuries	\$	% of Budget	% of Budget	% within budget	average # days ahead (behind) schedule	# Days MFL Violation	‰	Fecal Coliform Bacteria (cfu/100ml)	
Green Level		≥ 90%	≤ 15	Zero	<704; 0	< 7.7	Zero	<1542	<2	Zero	≥ \$9,894,657	≥ 95%	≥ 85% but ≤ 105%	≥80%	≥ (30)	0	min ≥ 20 ‰	≤ 1 site > 200	
Yellow		< 90%	≤ 25	1	≤1,500; 0	< 8.8	1	≤1875	≥ 2	-	< \$9,894,657	≥ 90%	≥ 80%	≥60%	< (30)	1	min ≥ 10 ‰	≤ 3 sites >200	
Red		<75%	> 25	≥ 2	>1,500; ≥1	≥ 8.8	≥ 2	>1875	≥ 9	≥ 1	< \$5,557,057	< 90%	< 80% or > 105%	< 60%	< (60)	≥ 2	min < 10 ‰	≥ 4 sites > 200	
2019 Baseline		100%	9	1	8,022	6.8	0	1,229	1	0.3	\$ 35,137,006	100%	89%	95%		2	22.9	1 > 200	
2020 Baseline		34%	8	0	3,292	7.2	0	1,183	1	0.3	\$ 35,350,661	100%	90%	91%	-15	7	14.6	2 > 200	
2021 Baseline		113%	16	0.3	1,130	7.1	0	1,294	2	0.2	\$ 40,651,532	97%	89%	79%	-34	0	24.3	3 > 200	
2021	Apr	134%	27	0	1,000; 1	7.3	1	1,392	0	0	\$ 39,702,370	97%	87%	76%	(19)	5	32.2	1 > 200	
	May	92%	12	0	612; 1	6.9	0	1,362	4	1	\$ 41,642,323	96%	86%	76%	(15)	0	32.1	1 > 200	
	June	142%	9	0	8; 0	6.7	0	1,404	16	0	\$ 41,162,307	95%	88%	76%	(17)	0	32.0	3 > 200	
	July	205%	10	0	266; 0	6.6	0	1,336	0	0	\$ 40,444,121	95%	94%	76%	(27)	0	27.2	2 > 200	
	Aug	160%	14	1	2,060; 0	6.9	0	1,243	0	0	\$ 42,047,326	95%	89%	76%	(42)	0	16.9	5 > 200	
	Sept	192%	11	0	357; 0	6.8	0	1,300	1	0	\$ 40,450,479	95%	86%	76%	(61)	0	17.2	6 > 200	
	Oct	77%	18	0	1,050; 1	7.0	0	1,221	0	0	\$ 40,516,049	94%	100%	79%	(55)	0	19.3	6 > 200	
	Nov	75%	12	0	565; 0	7.4	0	1,164	0	1	\$ 42,924,083	97%	91%	81%	(49)	0	9.9	3 > 200	
	Dec	67%	12	0	1,500; 0	7.3	0	1,021	0	0	\$ 42,827,478	106%	98%	78%	(55)	0	18.6	0 > 200	
	2022	Jan	65%	16	0	25; 0	7.3	0	1,154	0	0	\$ 42,677,604	103%	95%	77%	(42)	0	27.9	4 > 200
		Feb	79%	8	0	225; 0	7.3	0	1,383	0	0	\$ 44,675,863	101%	94%	80%	(54)	0	30.2	3 > 200
		Mar	91%	12	0	241; 0	7.2	0	1,384	0	0	\$ 44,151,634	100%	93%	80%	(59)	0	24.0	2 > 200
		Apr	104%	22	1	217; 0	7.1	0	1,296	0	0	\$ 44,230,248	103%	93%	83%	(62)	0	29.3	4 > 200
Consecutive Months at Green		2	0	0	4	155	12	139	10	5	152	6	13	3	0	12	4	0	
Metric Owner		O'Neill	Pugsley	Dean	Dean	Pugsley	Pugsley	Pugsley	Dean	Horchar	Fraraccio	Fraraccio	Fraraccio	Dean	Dean	Howard	Howard	Howard	

<b>Metric</b>	<b>Explanation</b>
Grease Interceptors	For the month of April 2022, 105 grease interceptors were inspected with 23 units (22%) requiring pump-out. It is our understanding that ECR (the primary facility that receives grease from our area) is offline due to issues, and we believe this is causing a disruption in the process and has contributed to the higher numbers we are seeing this month.
Customer Service	One home had a sewer backup that damaged the interior of their home (flooring). The apparent cause of the blockage was root intrusion into the gravity sewer service (lateral) through a transition fitting.
Capital Projects (time)	This metric has slipped into the red. The three most delinquent projects are: (1) Clarifier #3 Rehab - recommended for award this month; (2) Dump Pit for Vacuum Trucks - projected costs have resulted in an additional alternative being evaluated, nonetheless staff anticipate recommendation of award in June; (3) Site Planning for 20 acres - staff are working with consultants to develop a workable potential solution and anticipate presenting alternatives to the Board in June. Two additional projects are anticipated to be completed this month (Master Lift Station Bypass Study and Lift Station Telemetry (engineering)). Once again we are anticipating significant schedule improvement next month.
River Water Quality	High fecal coliform bacteria (>200 cfu/100 ml) were observed at Station 69 (Indiantown Rd bridge over NW Fork), 67 (NW Fork @ Trapper Nelson's dock), 95 (Jupiter Farms Canal 1), and 100 (mouth of Cypress Creek). See Bud's report for additional details.



# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: Governing Board  
FROM: Administration Staff  
DATE: May 13, 2022  
SUBJECT: Consent Agenda

All items listed below are considered routine and will be enacted by one motion. There will be no separate discussion of these items unless requested by a Board Member or citizen, in which event, the item will be removed and considered under the regular agenda.


This month's consent agenda consists of the following items:

- A. Environmental Education Policy – to approve revisions
- B. Lift Station Cellular Telemetry Construction Contract – to approve contract
- C. Lift Stations 160 and 296 Emergency Generator and ATS Installations – to approve contract
- D. Clarifier #3 Rehabilitation – to approved Construction Contract
- E. Notice of Intent – 18150 SE Woodbridge Ln
- F. Odor Control (Evoqua) – to approve contract extension
- G. Fixed Asset Disposal – to approve disposal
- H. Change Order – Engineering Services Contract BLM House Renovation  
– 21-008-00107-WWSH Hauling of Liquid Domestic Wastewater, Sludge  
and Collection System Debris

Should you have any questions regarding these items, I would be pleased to discuss them further with you.

The following Motion is provided for Board consideration:

**“THAT THE GOVERNING BOARD approve the Consent Agenda of May 19, 2022 as presented.”**

Signed   
D. Albrey Arrington, Ph.D.  
Executive Director

James D. Snyder  
CHAIRMAN

Gordon M. Boggie  
BOARD MEMBER

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER





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## MEMORANDUM

TO: GOVERNING BOARD  
FROM: D. ALBREY ARRINGTON, Ph.D.  
DATE: APRIL 1, 2022  
SUBJECT: ENVIRONMENTAL EDUCATION POLICY

In July 2020 the Governing Board approved our Environmental Education Policy. Since that time the Legislature approved our revised Enabling Act (Chapter 2021-249, Laws of Florida), which expanded our expressly granted powers for LRD to conduct environmental education.

Section 6. (28) *“Conduct environmental education as necessary and appropriate to minimize damage to the area’s resources and environment, to prevent additional environmental problems from being created, and to provide education regarding solutions to existing problems.”*

As such, LRD staff have reviewed our Environmental Education Policy and made suggested revisions to this policy (shown in red line format following this memo). The intent of these revisions is to capture the benefit of our expanded expressly granted powers, which continue to match the spirit that justified the creation of the Loxahatchee River District as eloquently expressed by Nathaniel Reed, then Secretary of the Department of the Interior, in a speech on November 7, 1973:

*“The Loxahatchee River Environmental Control District was born, legitimized, and baptized while I was Chairman of the Department of Pollution Control. It was founded to protect the Loxahatchee, the last wild, basically unspoiled river on the East coast.” ... “A river needs friends and protectors. If the Loxahatchee is clean fifty years from now, it will be because of you; you will have accomplished your mission.”*

On May 21, 2022 we will celebrate the 51<sup>st</sup> anniversary of the creation of the Loxahatchee River District. I am proud to reflect on Secretary Reed’s quote from so long ago and recognize the significant, positive role this organization has played in the preservation of the Loxahatchee River. It is my strong believe that our environmental education efforts have been instrumental in our successes. This revised Environmental Education Policy will guide our efforts to conduct engaging environmental education programs that increase knowledge concerning our environment and environmental problems, increase awareness of potential solutions, and increase motivation to work towards practical solutions for these problems. These are worthy goals as we look forward to maintaining a clean and healthy Loxahatchee River over the next 50 years.

Therefore, I request your approval of the following motion:

**“THAT THE GOVERNING BOARD approve the revised Environmental Education Policy with an effective date of May 20, 2022.”**

James D. Snyder  
CHAIRMAN

Gordon M. Boggie  
BOARD MEMBER

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER

	LOXAHATCHEE RIVER DISTRICT	Doc No:	LRD-POL-EXE-07.00
		Effective Date	04/18/2022/17/2020
		Revision History:	
Author: Albrey Arrington, <u>Jocelyn O'Neill</u>		Revision No.	<u>10</u>
		Review Date:	<u>04/14/2022</u>
		Issuing Department: Executive	Page: Page 1 of 4

## ENVIRONMENTAL EDUCATION POLICY

### Purpose

To document the mission-critical linkage between environmental education and the [legislative intent and](#) powers explicitly enumerated in the District's Enabling Act.

### Policy

It is the policy of the Loxahatchee River Environmental Control District (LRD) to establish and support a program of environmental education, for the general population within the Loxahatchee River watershed and specifically including students and personnel working with students. The primary purpose of these environmental education efforts is to foster a sense of environmental stewardship for the Loxahatchee River's diverse watershed through quality education programs, exhibits, and meaningful events. The primary focus of these environmental education efforts is to explore healthy aspects of the Loxahatchee River watershed, provide context about environmental impacts to our watershed, and identify solutions to achieve a healthy community and river~~the environmental context, impacts, and solutions related to sewage disposal, solid waste management, stormwater drainage, or water supply within the LRD Legislative Boundaries, all of which broadly affect the health of the Loxahatchee River watershed.~~ The desired outcome from these environmental education programs are citizens with:

1. increased knowledge concerning the environment and environmental problems~~associated with protecting a safe potable water supply, providing efficient high-quality treatment and disposal of wastewater, stormwater management, and solid waste collection and disposal;~~
2. increased awareness of potential solutions to such problems; and
3. increased motivation to work towards practical solutions for such problems.


Successful programs will result in participants exploring, experiencing, and connecting with the Loxahatchee River ecosystem. Provision of environmental education concordant with this policy (e.g., the stated purpose, focus, and desired outcome) is deemed an essential element of achieving the intent of the Legislature in creating the LRD, i.e., "cause minimum damage to the area's resources and environment and prevent additional environmental problems from being created, as well as providing solutions to existing problems". Bridge Programs may be used to engage new participants with the LRD's environmental education programs but must not exceed 5% of environmental education effort.

### Authority

The authority for this policy is derived from the LRD Enabling Act, which states:

~~"An act relating to the Loxahatchee River Environmental Control District, ... providing powers and duties with regard to sewage disposal, solid waste management, discharge of~~

Authority: LRD Enabling Act ([Chapter 2021-249, Laws of Florida](#)); ~~LRD Rule Chapter 31-16~~  
 Date Approved by Governing Board: ~~7/16/2020~~ TBD

	LOXAHATCHEE RIVER DISTRICT	Doc No:	LRD-POL-EXE-07.00
		Effective Date	04/18/20227/17/2020
		Revision History:	
		Revision No.	10
Author: Albrey Arrington, Jocelyn O'Neill		Review Date:	04/14/2022
Issuing Department: Executive		Page:	Page 2 of 4

~~storm drainage and water supply drainage, and water supply within the district; providing for the financing of the district ....”~~

“Section 2. It is hereby declared to be the intent of the Legislature that the best interests of public health, safety, and welfare of the area within the boundaries of the Loxahatchee River



*Environmental Control District necessitates the formation of a separate local agency of government with powers designed to meet the particular needs of said area. It is further the intent of the Legislature that such needs be met in such a way as to cause minimum damage to the area's resources and environment and prevent additional environmental problems from being created, as well as providing solutions to existing problems. ~~Maximum use of existing systems shall be made whenever feasible and consistent with the purpose of this act. It is also the intent of the Legislature that current and long-range planning shall be carried out so that required services are made available at the lowest possible cost as the characteristics of the area change.~~*"

*"Section 6. (28) Conduct environmental education as necessary and appropriate to minimize damage to the area's resources and environment, to prevent additional environmental problems from being created, and to provide education regarding solutions to existing problems."*

*"Section 14. The provisions of this act shall be liberally construed to effect its purposes."*

### Justification

Why conduct environmental education? Environmental education is a deliberate approach to the protection of the environment and the improvement of people's quality of life by identifying, developing, and strengthening efforts that are responsive, locally relevant, and aimed at understanding and improving environmental degradation and impairments for the benefit of present and future generations. Environmental education includes raising public awareness because a more aware citizenry is better able to assess and address threats to public health, safety, and welfare. There are few opportunities or approaches to address continuously evolving, ~~environmental~~~~water-related~~ issues that are more cost-effective than successful environmental education programs. Thus, this policy is in direct response to the Legislature's stated intent, *"It is also the intent of the Legislature that current and long-range planning shall be carried out so that required services are made available at the lowest possible cost as the characteristics of the area change."*

In a seminal work from 1969 (two years before LRD was created), William B. Stapp defined environmental education (Stapp, et al., 1969) as *"Environmental education is aimed at producing a citizenry that is knowledgeable concerning the biophysical environment and its associated problems, aware of how to help solve these problems, and motivated to work toward their solution [emphasis added]."* A knowledgeable, aware, and motivated citizenry is critical in any efforts LRD might pursue to improve the sustainability of our existing systems and plan for needed future systems, because *"Developing and implementing solutions to [environmental] challenges requires an environmentally literate populace that has the skills to understand, analyze, think critically about, and address existing and future environmental issues"* (ELTF, 2015).

### Definitions

List definitions necessary to understand the policy statement (section above).

- A. Bridge Program: any environmental education program not directly related to the environmental context, impacts, and solutions related to ~~sewage disposal, solid waste management, stormwater drainage, or water supply within~~ the Loxahatchee River watershed. These programs are typically designed to attract first-time visitors.
- B. Drainage: the natural or artificial removal of surface water or groundwater from an area.
- C. Ecosystem: an ecological unit in which the biological, physical, and chemical components of the environment interact.
- D. Environment: the surroundings of an organism, including the plants, animals, and microbes with which it interacts.

- E. Environmental Education: the process by which individuals develop a deeper knowledge of the environment, awareness of effective solutions, and increased motivation to implement solutions.
- F. Environmental Stewardship: means the responsible use and protection of the natural environment through conservation and sustainable practices.
- G. I. Q. Water: also known as ‘reclaimed water’ means water that primarily originated from a domestic wastewater treatment facility and has received at least secondary treatment and basic disinfection and is intended to be reused, e.g., to meet landscape irrigation needs.
- H. Solid waste: means any garbage or refuse, sludge from a wastewater treatment plant, water supply treatment plant, or air pollution control facility, and other discarded material, resulting from industrial, commercial, domestic, and agricultural operations, and from community activities.
- I. Stormwater: means rainwater or melted snow that runs off streets, lawns, and other sites.
- J. Surface Water: means water upon the surface of the earth.
- K. Wastewater: also known as sewage, means water containing wastes from households, commercial facilities, and industrial operations; it may be mixed with surface water, stormwater, or groundwater that infiltrated the collection system.
- L. Watershed: the area drained by a given waterbody.
- M. Water supply: a source, means, or process of supplying water as for a community.

#### Relevant Procedures

The following procedures guide staff in the appropriate implementation of this policy:

- A. ~~TBD~~ Reporting;
- B. Scheduling Field Trips;
- C. Summer Camp Administration; and
- ~~A.~~ D. Summer Camp Counselor Training.

#### Relevant Policies

The following policies may relate to this policy:

- A. ~~TBD~~ Environmental Education COVID-19 Policy;
- B. Social Media Policy; and
- ~~A.~~ C. Volunteer Policy.

#### Policy Questions

Questions regarding this policy should be directed to the author(s) listed above.

#### Citations

- ELTF. 2015. California State Superintendent of Public Instruction Tom Torlakson’s statewide Environmental Literacy Task Force. A Blueprint for Environmental Literacy: Educating Every Student In, About, and For the Environment. Retrieved from <https://www.cde.ca.gov/pd/ca/sc/documents/envronliteracyblueprint.pdf>
- Stapp, W. B. et al. 1969. The Concept of Environmental Education. The Journal of Environmental Education 1(1):30-31.



# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: D. Albrey Arrington, Ph.D.  
FROM: Kris Dean, P.E., Deputy Executive Director, Director of Engineering  
DATE: May 12, 2022  
SUBJECT: 22-007-00117/Lift Station Cellular Telemetry: Recommendation of Award

The District currently operates 228 lift stations throughout the collection and transmission system. Of these 228 lift stations we remotely monitor 68 using standard radio telemetry, leaving 160 stations unmonitored. In December 2020, the Board awarded the engineering project to provide evaluation of two existing cellular telemetry pilot systems currently in use, recommendation for standardization, design, bidding and construction observation for installation of cellular telemetry at an estimated 140 of the unmonitored stations. The final design included 115 lift station sites and was bid on April 26, 2022. The remaining 42 sites will require station control panel upgrades and replacements in conjunction with the telemetry upgrades and will be designed and bid separately.

Holtz's Consulting Engineers Recommendation of Award and bid details are attached recommending award to Revere Control Systems, Inc. in the amount of \$3,327,270.00 including a contingency of \$50,000.00. As noted in the recommendation all bids came in well above the engineer's estimate. We have reviewed the engineer's reasons for the discrepancy and concur with their findings.

Staff have reviewed the capital program spending for FY22 and capital program schedule and determined that award will not result in spending beyond the approved budget.

Staff recommend the following motion:

**"THAT THE DISTRICT GOVERNING BOARD award ITB 22-007-00117 to Revere Control Systems Inc. in the amount of \$3,327,270.00 and a contingency amount of \$275,000.00."**

James D. Snyder  
CHAIRMAN

Gordon M. Boggie  
BOARD MEMBER

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER



HOLTZ CONSULTING ENGINEERS, INC

---

May 3, 2022

Mr. Kris Dean, PE  
Deputy Executive Director/Director of Engineering Services  
Loxahatchee River Environmental Control District  
2500 Jupiter Park Drive  
Jupiter, FL 33458

**Subject: Lift Station Remote Telemetry Panels  
Recommendation of Award to Revere Control Systems, Inc.**

Dear Mr. Dean,

On April 26, 2022, at 2:00 p.m. bids were opened for the referenced project. There were (4) four bids accepted for the project as follows:

Bidder	Total Bid Amount	Acknowledged Addenda?	Original Bid Security Received?
Revere Control Systems, Inc.	\$3,327,270.00	Y	Y
General Control Systems, Inc.	\$3,402,480.00	Y	Y
Tampa Armature Works, Inc.	\$3,469,801.12	Y	N
Hinterland Group, Inc.	\$3,643,750.00	Y	Y

All bids for this project came in well above our engineer's estimate for this project. We believe the following reasons may account for the discrepancy between the engineer's estimate and received bids.

- The engineer's estimate was based on quotes for materials (RTU's and fiberglass enclosures) that at the time of bidding are approaching a year old. It is our belief that the continuing supply chain issues and ongoing conflicts in locations that produce the raw materials necessary to manufacture electronics is likely to have caused greater volatility in the price of telemetry equipment such as RTUs.
- We have observed that the recent bidding environment is such that construction projects are becoming more expensive across the board. We believe this is a function of the high number of existing construction projects coupled with the lack of skilled laborers, general inflation, and construction delays due to the supply chain crisis.
- Our engineer's estimate did not include the costs for the Contractor to perform SCADA programming of the lift station RTUs. This was an additional cost that was included as part of the Addendum.



HOLTZ CONSULTING ENGINEERS, INC

---

We believe that these reasons may account for the difference between our estimated cost of approximately \$18,000 per station and the bid day price of approximately \$28,500 per station. We believe that the current trend of today's bidding environment is likely to continue and that this project will become more expensive in the foreseeable future.

The bids were reviewed by Holtz Consulting Engineers, Inc. (HCE) to evaluate whether the bids were responsive to the bid submittal requirements. The apparent low bidder was Revere Control Systems, Inc. with a Total Bid Amount of \$3,327,270.00. Their bid was reviewed and included the required bid bond in the amount of ten percent of their bid from an acceptable surety company according to the US Department of Treasury. They acknowledged receipt of the addenda in the bid form. The other forms and information required to be submitted with their bid appear to be in order. We therefore consider the bid submitted by Revere Control Systems, Inc. to be responsive.

Revere Control Systems, Inc. has successfully completed multiple SCADA networking and telemetry projects in South Florida. Revere Control Systems, Inc. will self-perform all electrical and control systems work for this project with preconstruction video and cellular signal strength testing performed by others. Revere Control Systems, Inc. is a corporation in good standing with the Florida Department of State Division of Corporations. We therefore consider Revere Control Systems, Inc. to be a responsible bidder.

Based on the above information, Holtz Consulting Engineers, Inc. considers Revere Control Systems Inc. to be the low responsive and responsible bidder and recommends that they be awarded the contract for the Lift Station Remote Telemetry Panels project in the Total Bid Amount of \$3,327,270.00.

Sincerely,  
HOLTZ CONSULTING ENGINEERS, INC.

A handwritten signature in blue ink, appearing to read 'Christine Miranda', is written over a light blue horizontal line.

Christine Miranda, PE  
Principal Engineer

**Loxahatchee River Environmental Control District**  
**Lift Station Remote Telemetry Panels**  
**Bid Tabulation**  
April 26, 2022

				Revere Control Systems, Inc.		General Control Systems, Inc.		Tampa Armature Works, Inc.		Hinterland Group, Inc.	
ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1	Furnish and Install Cellular Telemetry	115	EA	\$28,498.00	\$3,277,270.00	\$29,152.00	\$3,352,480.00	\$29,737.401	\$3,419,801.12	\$31,250.00	\$3,593,750.00
2	Additional Allowance (NTE \$50,000)	1	LS	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00
Total Bid Price				\$3,327,270.00		\$3,402,480.00		\$3,469,801.12		\$3,643,750.00	



# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: D. Albrey Arrington, Ph.D.

FROM: Kris Dean, P.E., Deputy Executive Director/Director of Engineering

DATE: May 12, 2022

SUBJECT: Lift Stations 160 and 296 Emergency Generator and ATS Installations-  
Recommendation of Award

Lift Stations 160 and 296 have been identified as priority stations for emergency standby generator installations. This project provides installation services for owner furnished emergency generators and automatic transfer switches (approved at the February 2022 Board meeting) at Lift Stations 160 and 296,

Bids were received on March 15, 2022 as summarized below and in the attached Bid Tabulation. Note, both CJ's Power Systems Sales and Service and Hinterland Group, Inc. bids contained minor Scribner's errors. Correction of the errors did not alter the bid order and are presented as corrected below.

CJ's Power Systems, Sales & Service	\$104,361.00
All Florida Contracting Service	\$160,528.00
Hinterland Group, Inc.	\$166,965.00
Zabatt, Inc.	\$191,028.13

As the apparent low, an evaluation of CJ's Power Systems, Sales & Service bid was performed. They were found to be responsive and responsible, as such, staff recommend the following motion:

**"THAT THE DISTRICT GOVERNING BOARD award ITB 22-008-00118 to CJ's Power Systems, Sales & Service in the amount of \$104,361.00.00 and a contingency in the amount of \$10,436.00."**

James D. Snyder  
CHAIRMAN

Gordon M. Bogie  
BOARD MEMBER

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER

# Tabulation Sheet

**Agency Name** Loxahatchee River District



**Bid Number** ITB-ITB #22-008-00118-0-2022/SA

**Bid Name** LIFT STATION 160 AND 296 EMERGENCY GENERATOR AND AUTOMATIC TRANSFER SWITCH INSTALLATIONS

**Bid Due Date** 03/15/2022 14:00:00 Eastern

**Bid Opening** **Closed**

4 responses found.

✓ online,  offline, ● not submitting,  not received

Company		Responded	Address	Bid Amount	Alt Bid Amount	Declared Attributes	Documents	Sent
<b>Complete</b>								
1 .	All Florida Contracting Service	03/15/2022 10:46:44 Eastern	3814 NW 126th Ave, Coral Springs , FL, 33065	\$160528.0000	0.0000		Response Document	✓
2 .	CJ's Power Systems, Sales & Service	03/14/2022 21:39:08 Eastern	132 NE 17th Pl, Ocala, FL, 34470	\$104361.0000	0.0000		Response Document	✓
3 .	Hinterland Group Inc.	03/15/2022 13:44:12 Eastern	2051 W. Blue Heron Blvd. , Riviera Beach, FL, 33404	\$166915.0000	0.0000		Response Document	✓
4 .	Zabatt Inc	03/15/2022 13:20:13 Eastern	4612 Highway Avenue, Jacksonville, FL, 32254	\$191028.1300	0.0000	Hispanic Owned	Response Document	✓





# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: D. Albrey Arrington, Ph.D.

FROM: Kris Dean, P.E., Deputy Executive Director, Director of Engineering

DATE: May 12, 2022

SUBJECT: Clarifier No. 3 Rehabilitation - ITB #22-010-00120  
Recommendation of Award – Rebuild-It Services Group, L.L.C.

This project provides for the rehabilitation and repair of specific mechanical systems and components within an existing 100-ft diameter, pre-stressed concrete secondary clarifier unit at the Loxahatchee River District Wastewater Treatment Facility (WWTF).

Mr. Pugsley's Engineer's Recommendation of Award and bid details are attached, it has been determined Rebuild-It Services Group, L.L.C. is the lowest responsive and responsible bidder, and it is recommended that they be awarded the contract for the Clarifier No. 3 Rehabilitation project.

Staff recommend the following motion:

**"THAT THE DISTRICT GOVERNING BOARD award ITB 22-003-00113 to Rebuild-It Services Group, L.L.C. in the amount of \$ 129,809.00 and a contingency in the amount of \$ 12,981.00."**

James D. Snyder  
CHAIRMAN

Gordon M. Bogie  
BOARD MEMBER

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER



# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: Kris Dean, P.E., Deputy Executive Director /Director of Engineering

FROM: Jason A. Pugsley, P.E., Operations – Plant Manager

DATE: April 15, 2022

SUBJECT: Clarifier No. 3 Rehabilitation - ITB #22-010-00120  
Recommendation of Award – Rebuild-It Services Group, L.L.C.

On April 12, 2022, at 2:00 pm, the District opened bids for the referenced project. There was a total of two (2) bids accepted for the project as follows:

Bidder	Total Bid Amount	Acknowledged Addenda?	Submitted Original Bid Security
Rebuild-It Services Group, L.L.C.	\$129,809.00	Y	Y
Razorback, LLC	\$466,800.00	Y	Y

The bids were reviewed to evaluate whether they were responsive to the bid submittal requirements. The apparent low bidder was Rebuild-It Services Group, L.L.C. with a Total Bid Amount of \$129,809. The bid from Rebuild-It Services Group, L.L.C. included the required bid bond in the amount of ten percent of their bid from an acceptable surety company according to the U.S. Department of Treasury. The other forms and information required to be submitted with their bid also appear to be in order. As such, the bid submitted by Rebuild-It Services Group, L.L.C. was determined to be responsive.

Based upon reference checks, Rebuild-It Services Group, L.L.C has successfully completed multiple similar projects in Florida which included the repair and rehabilitation of clarifier units at water and wastewater treatment facilities.

**James D. Snyder**  
CHAIRMAN

**Gordon M. Boggie**  
BOARD MEMBER

**Stephen B. Rockoff**  
BOARD MEMBER

**Dr. Matt H. Rostock**  
BOARD MEMBER

Rebuild-It Services Group, L.L.C. is a corporation in good standing with the Florida Department of State Division of Corporations. As such, Rebuild-It Services Group, L.L.C. is considered to be a responsible bidder.

Based on the information above, it has been determined Rebuild-It Services Group, L.L.C. is the lowest responsive and responsible bidder, and it is recommended that they be awarded the contract for the Clarifier No. 3 Rehabilitation project in the Total Bid Amount of \$129,809.00.

Let me know if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jason Pugsley', is positioned above the printed name.

Jason A. Pugsley, P.E.  
Operations – Plant Manager

**Agency Name** Loxahatchee River District  
**Bid Number** ITB-ITB #22-010-00120  
**Bid Name** CLARIFIER NO. 3 REHABILITATION  
**Bid Due Date** 04/12/2022 14:00:00 Eastern  
**Bid Opening** Closed

2 response(s) found

Company	Responded	Address	BidAmount	AltBidAmount	DeclaredAttributes	Status	Documents	Sent
Razorback LLC	02/22/2022 13:39:08 Eastern	177 Ancote Rd,Tarpon Springs,FL,34689	\$466,800.00	\$0.0000		Complete	Response Document	Electronic/Online
Rebuild-It Services Group, LLC	02/22/2022 12:35:14 Eastern	4188 W Nike Dr,West Jordan,UT,84088	\$129,809.00	\$0.0000		Complete	Response Document	Electronic/Online

**CURTIS L.  
SHENKMAN**  
*Board Certified  
Real Estate Attorney*

**Hunter C.  
SHENKMAN**  
*Attorney*

**CURTIS SHENKMAN, P.A.**  
**ATTORNEY & COUNSELOR AT LAW**  
**4400 PGA BLVD, SUITE 300**  
**PALM BEACH GARDENS, FL 33410**  
**CURTIS@PALMBEACHLAWYER.LAW**

**LEGAL ASSISTANTS**  
JUDY MONTEIRO  
DENISE B. PAOLUCCI  
REBECCA TWOMEY

Sent by email

D. Albery Arrington, PhD., Executive Director  
Loxahatchee River Environmental Control District  
2500 Jupiter Drive  
Jupiter, Florida 33458-8964

Re: Initial Resolution for **18150 SE Wooden Bridge Lane** Assessment Area

Dear Dr. Arrington:

Per your request, please attach to this letter the Pending Lien Notice, Notice of Intent to Assess, Resolution 2022-05, the PROPOSED "Exhibit B Description of Improvements", "Exhibit B Map of the Assessment Area", and preliminary List of Property Owners.

A **SUGGESTED MOTION** for the Board to consider is:

"THAT THE GOVERNING BOARD approve Resolution 2022-05, the NOTICE OF INTENT to Assess, the Pending Lien Notice, and the Exhibits for the **18150 SE Wooden Bridge Lane** Assessment Area."

I will bring the originals to be signed at the Governing Board meeting, and leave them for the District to electronically record in the Public Records.

Sincerely,

*Curtis L. Shenkman*

Curtis L. Shenkman

RETURN TO: WC-53  
Curtis L. Shenkman, Esquire  
Curtis Shenkman, P.A.  
4400 PGA Blvd, Suite 301  
Palm Beach Gardens, Florida 33410

**PENDING LIEN NOTICE**  
**18150 SE WOODEN BRIDGE LANE ASSESSMENT AREA**

THE LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT, a special district of the State of Florida, created in 1971 and existing pursuant to Chapter 2002-358, Laws of Florida (hereinafter referred to as the "District", hereby clarifies the lien status of the "Notice of Intent to Assess" attached hereto and made a part hereof (referred to as the "Pending Lien").

**The Pending Lien shall not be considered certified, confirmed or ratified until such time as the passage of the Final Assessment Roll Resolution of the District.**

**The intention of the District in publishing this Pending Lien Notice is to assist the property owners who may be selling or refinancing their property and parties who may be placing a mortgage on their property to do so knowing that the District is not seeking the payment of any funds on the Pending Lien until the non-ad valorem tax bill is issued for the property on the date set forth in the Final Assessment Roll Resolution of the District.**

Any inquiries as to the Pending Lien and the timing for the Final Assessment Roll Resolution and payment of said special assessments should be directed to:

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT  
2500 Jupiter Park Drive  
Jupiter, Florida 33458  
Phone: (561) 747-5700

IN WITNESS WHEREOF, the undersigned, Executive Director of the Loxahatchee River Environmental Control District, herein certifies that on this 19th day of May, 2022, the information contained herein is true and accurate.

WITNESSES:

LOXAHATCHEE RIVER ENVIRONMENTAL  
CONTROL DISTRICT

\_\_\_\_\_  
\_\_\_\_\_

By: \_\_\_\_\_  
D. Albrey Arrington, Ph.D.  
EXECUTIVE DIRECTOR  
[DISTRICT SEAL]

STATE OF FLORIDA  
COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this 19th day of May, 2022, by D. Albrey Arrington, EXECUTIVE DIRECTOR of the LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT, a special district of the State of Florida, on behalf of the District, personally known to me.

(NOTARY SEAL)

\_\_\_\_\_  
NOTARY PUBLIC, STATE OF FLORIDA

RETURN TO:  
Loxahatchee River District  
2500 Jupiter Park Drive  
Jupiter, FL 33458

**NOTICE OF INTENT TO ASSESS  
18150 SE WOODEN BRIDGE LANE ASSESSMENT AREA**

**THE LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT**, a special district of the State of Florida (the “District”) **created in 1971 and existing pursuant to Chapter 2002-358, Laws of Florida**, (the “Act”), hereby gives public notice that the District’s Governing Board on the 19th day of May, 2022, passed Resolution **2022-05**, authorizing the construction of certain local sewer improvements as further described in said Resolution **2022-05**, which is attached hereto as Exhibit “A”. It is the intent of the District to assess the owners of property specially benefited by such sewer improvements, which property is further described on the attached **Exhibit “B”**, and to apportion the District’s costs for the total expenses related to the design and construction of said improvements, based upon each owner’s proportionate share of said costs determined upon a square footage basis, or by other methods as the Governing Board may deem fair and equitable, pursuant to the Act and Rules of the District, as same may be amended from time to time hereafter.

Any inquiries to the District’s progress in completing certification of said assessments should be directed to:

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT  
2500 Jupiter Park Drive  
Jupiter, Florida 33458

**IN WITNESS WHEREOF**, the undersigned, Executive Director of the Loxahatchee River Environmental Control District, hereby certifies on this 19th day of May, 2022, that the information contained herein is true and accurate.

WITNESSES:

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D. Albrey Arrington, Ph.D.  
Executive Director

STATE OF FLORIDA  
COUNTY OF PALM BEACH

SWORN TO and subscribed before me by means of physical presence this 19th day of May, 2022, by D. Albrey Arrington, EXECUTIVE DIRECTOR of the LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT, who is personally known to me.

(NOTARY SEAL)

---

NOTARY PUBLIC, STATE OF FLORIDA

## RESOLUTION 2022-05

A RESOLUTION OF THE LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT RELATING TO **18150 SE WOODEN BRIDGE LANE** ASSESSMENT AREA IMPROVEMENTS IN ACCORDANCE WITH DISTRICT RULE 31-11; STATING THE NATURE OF THE PROPOSED IMPROVEMENTS; DESIGNATING THE STREETS TO BE IMPROVED; DESIGNATING THAT PLANS, SPECIFICATIONS, AND A TENTATIVE APPORTIONMENT BE PREPARED; PROVIDING FOR THE AVAILABILITY OF PLANS AND SPECIFICATIONS AND FOR THE PREPARATION OF THE PRELIMINARY SPECIAL ASSESSMENT ROLL; PROVIDING FOR DECLARING LINE AVAILABLE FOR CONNECTION; PROVIDING FOR CONSISTENCY; PROVIDING FOR SEVERABILITY; PROVIDING AN EFFECTIVE DATE.

WHEREAS, the Governing Board of the Loxahatchee River Environmental Control District (hereinafter called the “District”) has considered the need for improvements to the **18150 SE WOODEN BRIDGE LANE** Assessment Area (the “Area”) in Martin County, Florida;

WHEREAS the District shall construct and declare available sewerage collection lines and related appurtenances comprising a localized District sewer system in the Area as an Established Residential Neighborhood based upon the Governing Board’s determination of any of the following:

- (1) n/a; or
- (2) that a reasonable alternative to the septic tanks exists for the treatment of the sewerage, taking into consideration factors such as cost; or
- (3) the discharge from the septic tanks is adversely affecting the health of the user or the public, or the groundwater or surface water is degraded; or
- (4) to enhance the environmental and scenic value of surface waters.

WHEREAS, the Governing Board has considered the facts, evidence, and presentations of the District Engineer, District staff and consultants as to the need for sanitary sewers in the Area and considered such recommendations to be in accordance with the above referenced Criteria of the “Ellis Rule” as well as in the best interests of the citizens of the District and the citizens of this Area.

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE DISTRICT, THAT:

Section 1.      Title:

This Resolution shall be known as the Resolution Authorizing the Project known as “**18150 SE WOODEN BRIDGE LANE** Assessment Area Improvements”.

Section 2.      Nature of Improvements:

The project improvements shall consist of the construction of a waste water and sewage system within lands under the jurisdiction of the District. The proposed improvements performed shall generally consist of those set forth on Composite Exhibit “B”.

Section 3.      Designation of Streets to be Improved:

The streets included within the **18150 SE WOODEN BRIDGE LANE** Assessment Area Improvements are set forth on Composite Exhibit “B”.

Section 4.      Plans, Specifications and Tentative Apportionment:

Upon adoption of this Resolution, The District Engineers and staff shall prepare plans, specifications and estimated total costs of such proposed improvements, together with a tentative apportionment of such costs between the District and individual parcels of property receiving special benefits pursuant to the improvements.



Section 5. Public Inspection:

The Plans, Specifications and tentative apportionments for the **18150 SE WOODEN BRIDGE LANE** Assessment Area Improvements shall be available for inspection in the Office of the Executive Director, Loxahatchee River Environmental Control District, 2500 Jupiter Park Drive, Jupiter, Florida 33458. The District's Engineer shall make available said plans and specifications prepared incident thereto, for inspection in the Office of the District's Engineer.

Section 6. Assessment Roll:

The District Clerk is directed to prepare a Preliminary Assessment Roll based upon this Resolution, District Rule 31-11, and the District Engineer's tentative apportionment, and to make publication of notice in newspapers in Martin and Palm Beach Counties, together with notice mailed to those interested parties and affected property owners requesting such in writing, in accordance with the requirements of District Rule 31-11.

Section 7. Availability for Connection and Required Connection:

The waste water and sewerage system shall be "Available" for connection in accordance with District Rule 31-3.003(3) and Florida Statutes 381.0065(2)(a) when the Florida Department of Health releases the system for service, which is the date of actual "Availability". In accordance with Florida Statutes 381.00655, the affected property owners shall be required to connect to the sewerage system within one (1) year of the actual Availability.

Section 8. All Resolutions or parts of Resolutions in conflict herewith are hereby repealed to the extent of such conflict.

Section 9. In the event that any portion of this Resolution is found to be unconstitutional or improper, it shall be severed herefrom and shall not affect the validity of the remaining portions of this Resolution.

Section 10. This Resolution shall become effective upon its passage and adoption.

PASSED AND ADOPTED BY THE GOVERNING BOARD OF THE LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT, THIS 19<sup>th</sup> DAY OF May, 2022.

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

VOTE

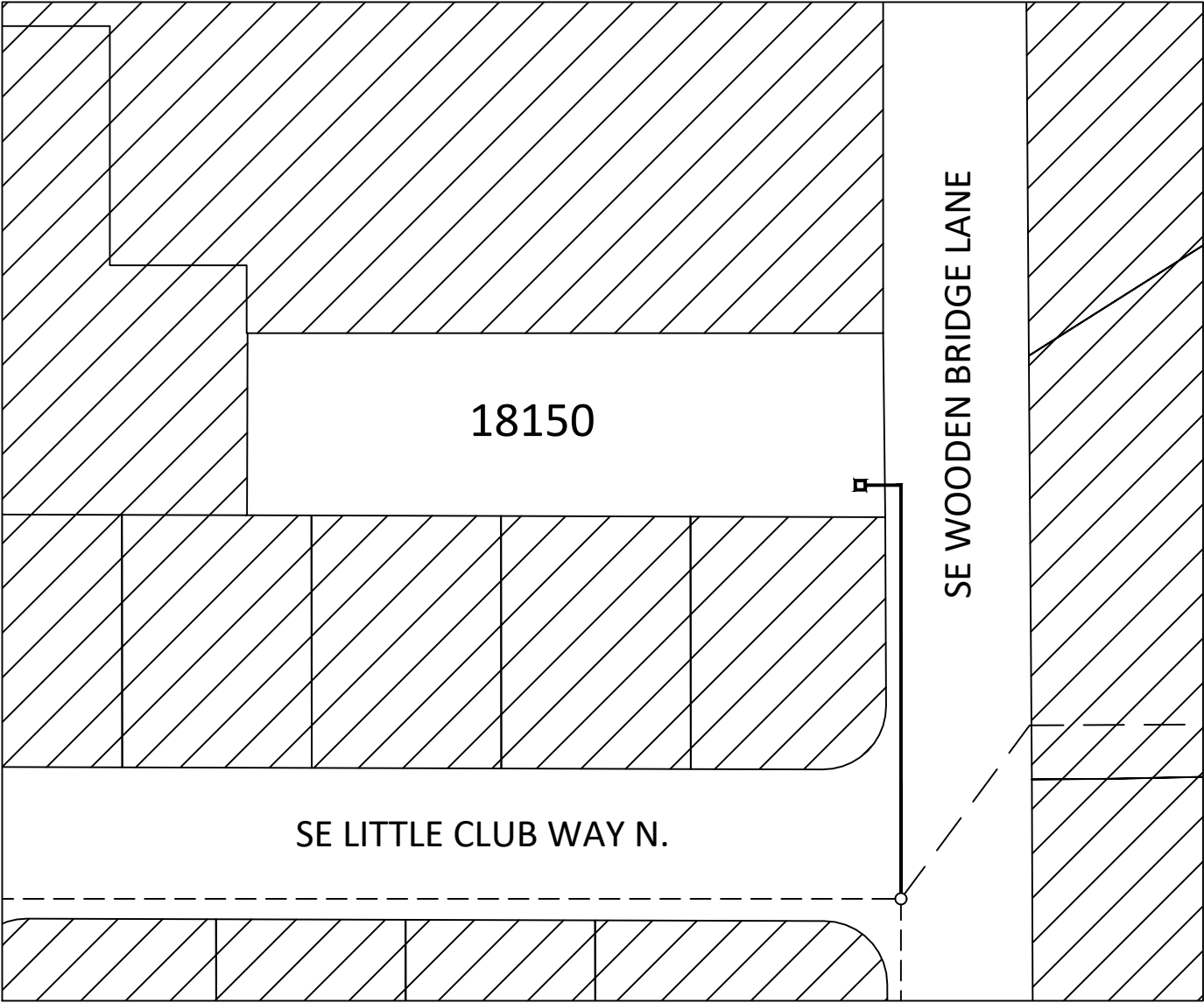
\_\_\_\_\_  
DR. MATT H. ROSTOCK

\_\_\_\_\_  
STEPHEN ROCKOFF

\_\_\_\_\_  
GORDON M. BOGGIE

\_\_\_\_\_  
JAMES D. SNYDER

# EXHIBIT "B" 18150 SE WOODEN BRIDGE LANE LOW PRESSURE SEWER SYSTEM



## LEGEND

- — — EXISTING 4" FORCE MAIN
- - - EXISTING 8" GRAVITY MAIN
- PROPOSED 2" LOW PRESSURE MAIN
- □ — NEW LOW PRESSURE SERVICE BOX
- ▨ NOT IN ASSESSMENT AREA

TEQUESTA, FLORIDA

## EXHIBIT “B”

### PROPOSED SEWER SERVICE ASSESSMENT AREA

#### 18150 SE WOODEN BRIDGE LANE ASSESSMENT AREA

The property to be provided sewer service is located within Section 23, Township 40 South, Range 42 West, Riverview, Martin County, Florida and lies within the following general boundaries:

On the South by SE Little Club Way N, and  
On the East by SE Wooden Bridge Lane.

The approximate quantity of materials required to complete the project are:

- 1 Service
- 1 Low Pressure Pumping Unit

Mr. Vaughn Daniel & Li Qianqian  
18150 SE Wooden Bridge Lane  
Jupiter, FL 33469  
re: 18150 SE Wooden Bridge Lane  
23-40-42-000-000-00090-1



# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: D. ALBREY ARRINGTON, Ph.D., Executive Director  
FROM: JASON A. PUGSLEY, P.E., Operations – Plant Manager  
DATE: MAY 9, 2022  
SUBJECT: FISCAL YEAR 2022 – ANNUAL PURCHASE ORDER AUTHORIZATION FOR EVOQUA ODOR CONTRACT PRICING EXTENSION

The amount remaining in the District's FY 2022 budget is sufficient to cover the amount of this request.

Evoqua Water Technologies, Inc. (Evoqua) supplies the District with chemicals and equipment that assists with odor control and/or corrosion control at our plant site and within the collection system. Evoqua has an executed contract in place with Lee County and previously extended the offer to the District to "piggy-back" the executed Lee County contract for our wastewater odor and corrosion control program. The Lee County contract included an initial three-year period which was effective May 14, 2018 through May 13, 2021 as well as three (3) possible one-year extensions. Lee County recently elected to execute the second of three possible one-year extensions. The Year 2 extension includes increases above the unit cost rates for the previous one-year extension as follows:

- Bioxide: \$2.69/gallon vs. Year 1 of 3 Rate of \$2.47/gallon
- 25% Sodium Hydroxide: \$3.99/gallon vs. Year 1 of 3 Rate of \$2.47/gallon
- Sodium Hypochlorite: \$2.75/gallon vs. Year 1 of 3 Rate \$2.36/gallon
- 12% Master LS Biofilter Lease: \$3,354.00/mo. vs. Year 1 of 3 Rate of \$3,249.51/mo.
- WWTF HW Biofilter Lease: \$4,408.00/mo. vs. Year 1 of 3 Rate of \$4,240.50/mo.

The Year 2 of 3 extension has a term of May 14, 2022 through May 13, 2023. Lee County utilizes a significant amount of chemicals and equipment through Evoqua. As such, the pricing offered under the current contract provides the District with a competitive pricing advantage when compared to the pricing the District would likely receive if we were to bid the items ourselves. The current authorization request is for May 14, 2022 through September 30, 2022 (i.e., to the end of FY2022).

Staff recommends the following motion:

**"THAT THE DISTRICT GOVERNING BOARD authorize the Executive Director to execute a purchase order to Evoqua Water Technologies, Inc. for the continued supply of odor and corrosion control chemicals and services, in accordance with a "piggy-back" of Lee County contract for the period from May 14, 2022 through September 30, 2022, in an amount Not-to-Exceed \$170,000.00".**

**James D. Snyder**  
CHAIRMAN

**Gordon M. Boggie**  
BOARD MEMBER

**Stephen B. Rockoff**  
BOARD MEMBER

**Dr. Matt H. Rostock**  
BOARD MEMBER



May 5, 2022

Jason A. Pugsley, P.E.  
Loxahatchee River District  
2500 Jupiter Park Drive  
Jupiter, FL 33458-8964  
Email: Jason.pugsley@lrecd.org

**RE: LEE COUNTY CONTRACT – RENEWAL #2  
LOXAHATCHEE RIVER DISTRICT**

Dear Mr. Pugsley:

First, let me thank you again for your continued interest in Evoqua Water Technologies and for your confidence in our ability to solve your hydrogen sulfide odor and corrosion control needs.

Evoqua Water Technologies will continue to offer the Lee County Contract Piggyback for the period of May 14, 2022 through May 13, 2023.

Under the Lee County contract, the pricing for the products and services you are currently using are as follows.

<b>Bioxide®:</b>	<b>\$ 2.69 per gallon</b>
<b>Sodium Hydroxide 25%:</b>	<b>\$ 3.99 per gallon</b>
<b>Sodium Hypochlorite:</b>	<b>\$ 2.75 per gallon</b>
<b>Master Lift Station Biofilter:</b>	<b>\$ 3,354 per month</b>
<b>WWTF Headworks Biofilter:</b>	<b>\$ 4,408 per month</b>

Terms and conditions of the existing Lee County contract shall apply. These prices do not include any applicable taxes.

Please NOTE: Effective April 2022, you may be assessed a 3% fee if paying via Credit Card. Find more info on our website here > <https://www.evoqua.com/en/about-us/terms-conditions-sale-products-services/credit-card-fee-faqs> . Ask us how to avoid paying fees by migrating to ACH CTX payment type.

Thank you again for the opportunity to be of service. We look forward to continuing to serve Loxahatchee River District in the years to come. If you have any questions regarding this information or if I can be of assistance in any way, please do not hesitate to call me at (951) 326-7415.

Sincerely,

**Evoqua Water Technologies LLC**

*Eric Hansen*

Eric Hansen - Technical Sales Representative



Kevin Ruane  
*District One*

May 3, 2022

Cecil L. Pendergrass  
*District Two*

Ray Sandelli  
*District Three*

Brian Hamman  
*District Four*

Frank Mann  
*District Five*

Roger Desjarlais  
*County Manager*

Richard Wesch  
*County Attorney*

Donna Marie Collins  
*County Hearing Examiner*

Mr. Charles Maltby  
Evoqua Water Technologies, LLC  
210 Sixth Avenue, Suite 3300  
Pittsburg, PA 15222

SUBJECT:      Renewal of Annual Contract No. RFP170384ANB  
                  Odor Control & Corrosion Services

Dear Mr. Maltby:

This is to inform you that Lee County agrees to renew the above subject contract for an additional one (1) year period, from 5/14/22 through 5/13/23.

We are hereby extending the annual contract for an additional one-year period under the same terms and conditions as the original award with the inclusion of the requested pricing from the Board date of 4/19/23. Please see Amendment.

If you have any questions regarding this letter, please contact me at (239) 533-8871.

Sincerely,

*Kimberly Urban*

Kimberly Urban  
Contracts Analyst  
Procurement Management Division

C: Project File



# Lee County

Southwest Florida

Kevin Ruane  
District One

November 2, 2021

239-533-8871

Cecil L. Pendergrass  
District Two

Ray Sandelli  
District Three

Brian Hamman  
District Four

Frank Mann  
District Five

Roger Desjarlais  
County Manager

Richard Wesch  
County Attorney

Donna Marie Collins  
County Hearing  
Examiner

Mr. Charles Maltby  
Evoqua Water Technologies, LLC  
210 Sixth Avenue, Suite 3300  
Pittsburg, PA 15222

Subject: Renewal of Annual Contract RFP170384ANB  
Odor Control & Corrosion Services

Dear Mr. Maltby:

The above-referenced annual contract will expire on May 13, 2022, unless renewed. Lee County is requesting that this annual contract be renewed for an additional one year period (5/14/22 – 5/13/23). Therefore, we are requesting that you choose one of the following options and return this letter to Lee County Procurement Management, Attn: Kimberly Urban, P.O. Box 398, Ft. Myers, FL 33902-0398, (Fax: 239-485-8383 or email [kurban@leegov.com](mailto:kurban@leegov.com)), within 15 calendar days from receipt. Failure to return by **November 16, 2021**, may, at the County's sole discretion, result in contract cancellation and/or rebid of solicitation.

\* \_\_\_\_\_ a. I want to continue performing under this annual contract for an additional one year period under the same terms and conditions as agreed upon in the above-referenced quotation.

\*Please see attached requested pricing

*As a condition of this renewal, the vendor agrees to provide Lee County with an updated insurance certificate upon expiration of the original certificate on file with the County.*

\_\_\_\_\_ b. I am not interested in extending this contract for an additional one-year period. Why? \_\_\_\_\_

Vendor:

Signature Jennifer R. Miller

V. P. & G. M.

Title

2/1/22

Date

Lee County:

Signature of Authorized Official

Procurement Management Director

Title

Date

May 3, 2022

P.O. Box 398, Fort Myers, Florida 33902-0398 Phone: (239) 533-2111

[www.leegov.com](http://www.leegov.com)

AN EQUAL OPPORTUNITY EMPLOYER



Item #	Description	Unit Cost	Unit of Measure
1	Bioxide	\$ 2.69	gal
2	Bioxide Plus 71	\$ 3.89	gal
3	Bioxide AE	\$ 2.98	gal
4	Odophos	\$ 1.29	gal
5	Odophos Plus	\$ 1.89	gal
6	Ferric Sulfate (9%)	\$ 1.94	gal
7	PRI-SC Odophos*	NA	gal
8	PRI-SC Odophos Plus*	NA	gal
9	PRI-SC Ferric Sulfate (9%)	NA	gal
10	50% Hydrogen Peroxide	\$ 0.46	lb
11	PRI-SC Peroxide*	NA	lb
12	VX-456 (Bulk Tanker)	\$ 1.35	lb
13	VX-456 (Tote)	\$ 1.74	lb
14	Aktivox (Bulk Tanker)	\$ 1.03	lb
15	Aktivox (Tote)	\$ 1.39	lb
16	Textone L	\$ 0.98	lb
17	AQuit	\$ 17.79	lb
18	Alkagen AQ	\$ 1.68	gal
19	Sodium Hydroxide 25%**	\$ 3.99	gal
20	Sodium Hydroxide 50%**	\$ 6.50	gal
21	Sodium Hypochlorite**	\$ 2.75	gal
22	Perox Plus***	\$ 3.45	lb

**Notes:**

\* PRISC Products no longer available

\*\*Mini-bulk availability

\*\*\*New product available

ITEM	DESIGN AIR FLOW (cfm)	AVERAGE DESIGN H <sub>2</sub> S CONCENTRATION (ppmv)			
		A. <10	B. 10-150	C. 150-300	D. 300-500
1	Natural Draft	\$251.00	\$789.00	NA	NA
2	0-140	\$1,092.00	\$1,585.91	\$2,497.00	\$3,055.25
3	0-280	\$1,574.00	\$2,215.71	\$3,055.25	\$4,264.00
4	0-600	\$1,768.00	\$2,362.00	\$3,953.00	\$4,831.00
5	0-850	\$2,698.00	\$3,354.00	\$4,351.00	\$4,998.00
6	0-1150	\$3,048.00	\$4,163.00	\$5,167.00	\$6,322.00
7	0-1500	\$3,250.00	\$4,204.00	\$5,266.00	\$6,379.00
8	0-2000	\$3,494.00	\$4,408.00	\$6,316.00	\$7,322.00
9	0-3000	\$4,268.00	\$4,769.00	\$6,246.00	\$8,992.50
10	0-4000	\$4,650.00	\$5,699.00	\$8,739.00	\$12,356.00
11	0-5000	\$4,950.00	\$5,939.00	\$9,499.00	\$15,534.00
12	0-8000	\$7,944.00	\$8,968.00	\$12,674.00	\$16,754.00
13	0-12000	\$11,552.00	\$12,781.00	\$15,534.00	\$20,969.00
14	0-15000	\$12,488.00	\$13,738.00	\$23,611.00	NA
15	0-18000	\$15,471.00	\$17,162.20	\$28,333.20	NA
16*	0-20000	\$18,945.00	\$19,445.00	NA	NA

**Notes**

\*New airflow range available to the County.



# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

To: Governing Board  
From: Kara Fraraccio, Director of Finance and Administration  
Date: May 13, 2022  
Subject: Disposal of Surplus Property

Whenever the District disposes of tangible personal property of a non-consumable nature, Florida Statutes and our Disposal of Surplus Tangible Personal Property Policy require Governing Board approval before any Surplus Tangible Personal Property can be disposed of. Therefore, consistent with state statute and our policies and procedures, I request your authorization to dispose of the items listed below:

Tag #	F/A #	Description	Condition	Date Recorded	Acquired Value	Book Value	Estimated Value
	PE18	125 KW Diesel Generator	Operational	09/30/95	\$ 28,447	\$ -	\$ 11,000
2926		Eaton UPS	Beyond Repair	08/03/18	4,250	-	-
<b>Total Assets to be Disposed</b>					<b>\$ 32,697</b>	<b>\$ -</b>	<b>\$ 11,000</b>

In addition, the following assets were aggregated with other assets or grouped as part of a project when purchased and we therefore do not have individualized asset information on each item. A description of the asset to be disposed is provided below:

<u>Description</u>	<u>Serial Number</u>	<u>Condition</u>	<u>Estimated Value</u>
A Frame Crane	211012SA	Operational	\$500
10HP Flygt Pump	FLY-0340199	Beyond Repair	
5HP Hydromatic Pump	HYD-G65933	Beyond Repair	
3HP Flygt Pump	FLY-9261665	Beyond Repair	
Flygt Pump	FLY-10-27-98	Beyond Repair	

The items listed in the schedules above are no longer of use to the District and are considered Surplus. The assets will be disposed of in accordance with the District's Disposal of Surplus Tangible Personal Property Policy.

Items slated for disposal that have remaining value will be sold on public auction or sold as scrap. Items slated for disposal that have no remaining value will be recycled or otherwise disposed of in an environmentally conscious manner.

If you have any questions, please feel free to contact me.

I offer the following motion for your approval:

**"THAT THE GOVERNING BOARD authorize the Executive Director to dispose of tangible personal property asset number PE18, asset tag number 2926, and the items from aggregated assets listed in the schedule above in accordance with the District's Disposal of Surplus Tangible Personal Property Policy."**

James D. Snyder  
CHAIRMAN

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER

Gordon Boggie  
BOARD MEMBER



# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: D. Albrey Arrington, Ph.D.

FROM: Kris Dean, P.E., Deputy Executive Director, Director of Engineering

DATE: May 11, 2022

SUBJECT: Professional Engineering Services for Bureau of Land Management (BLM) House Renovation - Authorize Additional Engineering Services

In compliance with the District's Purchasing Policies and Procedures and Florida Statute 287.055 the District engaged in the CCNA process for FY21 with advertisement of Request for Qualifications 20-001 PROFSERVICES on April 1, 2020. Included in the RFQ 20-001-PROFSERVICES was BLM House Demolition and Construction.

The Board authorized the Executive Director to enter into a contract with Chen Moore and Associates for Professional Engineering Services for BLM House Demolition and Construction on March 18, 2021.

The original work authorization to Chen Moore and Associates provided professional services for the design, permitting, bidding assistance and construction administration for the BLM House Demolition and Construction project. However, review by BLM of the design has led to components being added to the project. These additions require revisions to the drawings, specifications, additional coordination and additional construction administration including inspection services. Chen Moore and Associates has submitted the attached work authorization for these additional services in the amount of \$ 25,510.00.

Staff recommend the following motion:

**“THAT THE DISTRICT GOVERNING BOARD authorize Change Order 001 with Chen Moore and Associates in the amount of \$25,510.00 .”**

James D. Snyder  
CHAIRMAN

Gordon M. Bogie  
BOARD MEMBER

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER

April 6, 2022

Kris Dean, P.E.  
Deputy Executive Director / Director of Engineering  
**Loxahatchee River Environmental Control District**  
2500 Jupiter Park Drive  
Jupiter, FL 33458

**Subject: BLM House Demolition and Construction  
Additional Services Request #1  
CMA Project 21-494.001**

Dear Mr. Dean:

Chen Moore and Associates (CMA) is pleased to submit the attached of Scope of Services to provide additional professional services for the design, permitting, bidding assistance and construction administration for the BLM House Demolition and Construction project.

#### **BACKGROUND**

United States Department of the Interior Bureau of Land Management (BLM) authorized a series of infrastructure related projects within the Jupiter Lighthouse Outstanding Natural Area (ONA). The purpose of these projects is to modernize existing facilities and infrastructure to ensure a safe visitor experience and working environment for staff, while enhancing the resilience of the ONA's congressionally designated values, including the protection of historic structures, scenic landscape and biological resources.

CMA entered into a contract with Loxahatchee River Environmental Control District (LRECD) on March 23, 2021 for the BLM House Demolition and Construction project. The scope of services includes the planning, engineering, architecture, and landscape architecture professional services for the renovation of these two structures and associated site improvements.

Through the evolution of the design and review by BLM, components were requested to be added to the project that were not initially identified in the original scope of services. A summary of these additional components is listed below.

- Freestanding roof at front façade of each building
- Change rear façade design at Building H to eliminate rafter tail extensions

The addition of these improvements and modifications requires revisions to the drawings, specifications and additional coordination. The proposed improvements also impact the scope and duration of the project construction. Therefore, additional construction oversight and management is expected to be required.

## **SCOPE OF SERVICES**

The professional planning, engineering, architecture, and landscape architecture services and the associated fees are described below. Task numbers from the original authorization are used below for clarity. If the task number is not included, additional services are not requested.

### **TASK 2 – DESIGN SERVICES**

#### **2.3 100% Bid Documents**

CONSULTANT and SUBCONSULTANT shall prepare 100% bid documents that incorporate additional items requested by Client or BLM. The bid documents will consist of plans and technical specifications per the original authorization.

### **TASK 5 – CONSTRUCTION ADMINISTRATION SERVICES**

#### **5.1 Meetings**

CONSULTANT will conduct progress meetings in accordance with the original authorization. It is assumed that CONSULTANT will conduct up to two (2) additional meetings. CONSULTANT will produce agendas, sign in sheets, and meeting minutes for each meeting.

#### **5.2 Submittal Review**

CONSULTANT will review submittals for the additional project components from the contractor to verify that they are in conformance with the contract requirements. It is assumed that four (4) additional submittals will be reviewed.

#### **5.3 Process Payment Requests**

CONSULTANT will review contractor's payment request and compare to daily report for accuracy. CONSULTANT will make recommendations to the CLIENT on the amounts to process for pay requests. It is assumed that two (2) additional payment requests will be reviewed, and recommendations prepared.

#### **5.4 RFI Responses and Change Orders**

CONSULTANT will review and provide response to Request for Information (RFI) and Change Orders. It is assumed that two (2) additional RFIs or Change Orders will be reviewed and responded to.

### **TASK 6 – RESIDENT PROJECT REPRESENTATIVE OR INSPECTION SERVICES**

#### **6.1 Construction Inspections**

CONSULTANT will perform additional construction inspections while contractor is on site and prepare daily field reports. The additional inspections are assumed for one (1) month, three (3) inspections per week, for a total of 12 additional site visits.



## ASSUMPTIONS

The assumptions from the original authorization pertain to these additional services.

## DELIVERABLES

CONSULTANT will provide the deliverables below in accordance with the original authorization. PDF copies will be provided via email for all deliverables that have hard copies included.

- 100% Bid Documents: One (1) copy of design plans (24"x36") and opinion of probable cost (letter size)
- Contractor pay requests and CONSULTANT recommendation letter will be furnished in the number of copies as required by CLIENT (electronic PDF).

The following items will be provided in PDF format via email:

- Meeting agendas, sign-in sheets, and minutes
- Construction inspection reports, walk-through notes, punch lists, close out letters
- Approved construction submittals

## SCHEDULE OF SERVICES

The schedule of services will be performed as follows:

TASK	ESTIMATED DAYS FROM NTP
TASK 2 – DESIGN SERVICES	
2.3 100% Bid Documents	14
TASK 5 – CONSTRUCTION ADMINISTRATION SERVICES	In accordance with original authorization and LRECD procurement schedule
TASK 6 – RESIDENT PROJECT REPRESENTATIVE OR INSPECTION SERVICES	In accordance with original authorization and LRECD procurement schedule

The schedule assumes a two (2) week review period from Client.

500 S. Australian Ave., Suite 850  
West Palm Beach, FL 33401  
Office: +1 (561) 746-6900



## FEES

The additional fees for the above tasks are as follows.

Design, Bid and Coordination Services (Task 2)	\$17,020
Services During Construction (Tasks 5 and 6)	\$8,490
<b>Total</b>	<b>\$25,510</b>

Tasks will be lump sum and billed according to the percent complete.

See Exhibit A for a breakdown of fees.

Should you have any questions, please do not hesitate to contact me at my office at (561) 746-6900 x 1035, my cell phone at (954) 650-7996 or send me an electronic message at [sdombrowski@chenmoore.com](mailto:sdombrowski@chenmoore.com).

Respectfully submitted,

CHEN MOORE AND ASSOCIATES  
Suzanne Dombrowski, P.E., ENV SP  
Principal Engineer / Office Leader

Attachment(s):        Exhibit A Fee Breakdown



**Loxahatchee River Environmental Control District**  
**BLM House Demolition and Construction**  
**Additional Service Request #1**  
**Exhibit A: Fee Schedule**

Chen Moore and Associates Project # 21-494.001

	Subconsultant Costs	Professional Staffing										Total	
		Clerical	Senior Technician	Associate LA	Senior Designer	Associate Engineer	Senior Const. Spec.	Project LA/ Planner	Senior Engineer	Project Manager	Sr. Project Manager	Principal	
Hourly Rate		\$65.00	\$90.00	\$95.00	\$135.00	\$115.00	\$125.00	\$135.00	\$165.00	\$195.00	\$210.00	\$330.00	
TASK 2 – DESIGN SERVICES													
2.3 100% Bid Documents	\$14,720					8		4			4		\$17,020
Task 2 Total													\$17,020
TASK 5 – CONSTRUCTION ADMINISTRATION SERVICES													
5.1 Meetings							4		4		2		\$1,580
5.2 Submittal Review								4			1		\$750
5.3 Process Payment Requests							4		2		1		\$1,040
5.4 RFI Responses and Change Orders							4	2	2		1		\$1,310
Task 5 Total													\$4,680
TASK 6 – RESIDENT PROJECT REPRESENTATIVE OR INSPECTION SERVICES													
6.1 Construction Inspections							24	2	2		1		\$3,810
Task 6 Total													\$3,810
FEE TOTAL													\$25,510
Fee Summary													
Design, Bid and Coordination Services (Task 2)				\$17,020									
Services During Construction (Tasks 5 and 6)				\$8,490									
Total				\$25,510									



# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: D. Albrey Arrington, Ph.D.  
FROM: Kris Dean, P.E., Director of Engineering Services  
DATE: May 12, 2022

SUBJECT: ITB # 21-008-00107-WWSH Hauling of Liquid Domestic Wastewater, Sludge and Collection System Debris – Reauthorize Contract

The District periodically requires the services of vendors to haul wastewater, sludge and/or debris from our collection system and the vacuum truck dump pit to Florida Department of Environmental Protection (FDEP) and/or County Health Department approved disposal sites.

The Board approved a contract award to Raider Rooter October 21, 2021 in the amount of \$30,000.00 for FY22. Due to waste water hauling associated with force main blockages on US1 and Pebble Place as well as significant shutdowns for system rehabilitation and repair, staff have utilized the initial \$ 30,000.00 approved.

Staff recommend the following motion:

**“THAT THE DISTRICT GOVERNING BOARD reauthorize the contract to Raider Rooter for Hauling of Liquid Domestic Wastewater Sludge and Collection System Debris in the amount not to exceed \$ 60,000.00.”**

James D. Snyder  
CHAIRMAN

Gordon M. Boggie  
BOARD MEMBER

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER

**LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT BID**

**Bid # 21-008-00107-WWSH**

**BID RESPONSE**

The Contractor agrees to execute an Agreement in strict accordance with the Contract Documents and perform the work as follows:

**The capture, hauling and proper disposal of liquid and/or slurry wastewater including fats, oil and grease (FOG), sand and debris, up to 2,000 gallons, to a Florida Department of Environmental Protection and/or Florida Department of Health approved disposal site.**

For compensation in the amount of:

\$ 421.89 /load

Four Hundred Twenty-One dollars Eighty-Nine cents / load  
(written in words)

All unit prices bid should be within two (2) decimal points. If bidder's pricing exceeds two (2) decimal points, Purchasing reserves the right to round up or down accordingly.

Is Bidder's Qualification information included? YES; INITIAL AK

Is Proof of ability to provide insurance provided? YES; INITIAL AK

Is Business License provided? YES; INITIAL AK

BIDDER'S FIRM NAME: Raider Rooter

BIDDER'S SIGNATURE: [Signature]  
(Failure to sign by a duly authorized representative shall result in rejection of this bid)

By signature on this document, bidder acknowledges and agrees that its offer includes and accepts all terms, conditions, and specifications of the LRECD's bid solicitation as originally published, without exception, change or alteration of any kind, except as may have been published by the LRECD in official amendments prior to this date of submittal.

FIRM ADDRESS: 804 SE 1st Street, Suite A, Boynton Beach, FL 33435

FIRM TELEPHONE NUMBER: 561-737-8818

FIRM E-MAIL ADDRESS: office @ Raider Rooter. com

APPLICABLE LICENSE(S): LC1430567

FIRM FEDERAL ID #: 81-0725775

ITB#21-008-00107 WWSH



**DRUG-FREE WORKPLACE CERTIFICATION for BID #21-008-00107WWSH**

**IDENTICAL TIE BIDS/PROPOSALS** - In accordance with F.S 287.087, a preference shall be given to vendors submitting with their bids/proposals the following certification that they have implemented a drug-free workplace program which meets the requirements of F.S. 287.087. In the event tie bids are received from vendors who have not submitted with their bids/proposals a completed Drug-Free Workplace Certification form, the award will be made in accordance with LRECD's Procurement Policy pertaining to tie bids.

This Drug-Free Workplace Certification form must be executed and returned with the attached bid/proposal and received on or before time of bid opening to be considered. The failure to execute and/or return this certification shall not cause any bid/proposal to be deemed non-responsive.

Whenever two (2) or more bids/proposals which are equal with respect to price, quality, and service are received by Loxahatchee River Environmental Control District for the procurement of commodities or contractual services, a bid/proposal received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. In order to have a drug-free workplace program, a business shall:

- (1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- (2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
- (3) Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in number (1).
- (4) In the statement specified in number (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of F.S. 893, or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
- (5) Impose a sanction on or require the satisfactory participation in a drug abuse assistance or rehabilitation program for any convicted employee.
- (6) Make a good faith effort to continue to maintain a drug-free workplace through implementation F.S. 287.087.

THIS CERTIFICATION is submitted by Andrew Bloom (the  
Individual's Name)

owner of Raider Footer

(Title/Position with Company/Vendor) (Name of Company/Vendor) who does hereby certify that said Company/Vendor has implemented a drug-free workplace program which meets the requirements of F.S. 287.087, which are identified in numbers (1) through (6) above.



## Request for Taxpayer Identification Number and Certification

Give Form to the  
requester. Do not  
send to the IRS.

► Go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9) for instructions and the latest information.

Print or type.  
See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. <b>Blerman, LLC</b>	
2 Business name/disregarded entity name, if different from above <b>Raider Rooter</b>	
3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only <b>one</b> of the following seven boxes. <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input checked="" type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ► <b>P</b> <b>Note:</b> Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is <b>not</b> disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. <input type="checkbox"/> Other (see instructions) ►	
4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ (Applies to accounts maintained outside the U.S.)	
5 Address (number, street, and apt. or suite no.) See instructions. <b>804 SE 1st St, Suite A</b>	Requester's name and address (optional)
6 City, state, and ZIP code <b>Boynton Beach, FL 33435</b>	
7 List account number(s) here (optional)	

### Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

**Note:** If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number								
				-				
or								
Employer identification number								
8	1			-	0	7	2	5 7 7 5

### Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person ► 	Date ► <b>1/27/21</b>
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### General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9).

### Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
  - Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
  - Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
  - Form 1099-S (proceeds from real estate transactions)
  - Form 1099-K (merchant card and third party network transactions)
  - Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
  - Form 1099-C (canceled debt)
  - Form 1099-A (acquisition or abandonment of secured property)
- Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.

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# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: D. Albrey Arrington, Ph.D.  
FROM: Kris Dean, P.E., Deputy Executive Director/Director of Engineering  
DATE: May 10, 2022  
SUBJECT: Operational Greenhouse Gas and Cost Assessment – Potential Project Initiatives

In April of 2022, the District completed the Loxahatchee River Environmental Control District Regional Wastewater Treatment Facility Operational Greenhouse Gas and Cost Assessment. From the assessment.

*Loxahatchee River Environmental Control District (LRECD) is committed to serving as a steward of environmental, financial, and human health for its customers and the surrounding community. As such, the purpose of this assessment is to characterize current operations at the Regional Wastewater Treatment Facility (WWTF) in terms of greenhouse gas (GHG) emissions and costs, thus enabling the identification of hot spots and associated opportunities for improvement. This study and the corresponding operational GHG and cost assessment tool provide a baseline against which to compare potential future operating alternatives.*

The assessment identified direct emissions from the aeration basins, indirect emissions from purchased electricity and natural gas used at the SWA BPF for biosolids processing as greenhouse gas hot spots, along with purchased electricity and biosolids processing as cost hot spots for the District. To address these hotspots the assessment identified the following potential opportunities for evaluation:

1. Switching from Bioxide to iron salts in the collection system may reduce energy consumption and improve odor control. This measure may reduce or eliminate chemical usage and the ventilation rate of the odor scrubbers at the equalization basins, aerobic sludge holding tank, and solids building. It may also improve sludge volume indices (SVIs) and reduce plant effluent phosphorus concentrations.
2. Trial operating with one equalization basin instead of two to reduce equalization mixing, aeration, and odor control scrubber ventilation energy consumption. Two equalization basins may not be required because the facility is not operating at full capacity.

James D. Snyder  
CHAIRMAN

Gordon M. Boggie  
BOARD MEMBER

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER

3. Trial turning off the aeration at the equalization basins and operating only with mixing to reduce energy consumption and odor off-gassing.
4. Update the March 2017 Solar Evaluation to reassess the cost effectiveness of solar generation onsite based on current market conditions.
5. Energy usage data monitoring and visualization.
6. Establish an energy management program.
7. Evaluation of processes and technologies to improve solids destruction and dewatering performance to reduce natural gas usage at the SWA BFP, including waste activated sludge thickening upgrades, digestion, and high solids centrifuge dewatering.

Items 1, 2 and 3 are focused on operational changes that may result in reduced energy consumption and cost. These were characterized as near-term operational options that staff could investigate for low cost. To that end staff propose an evaluation of the current equalization tank operation and impacts of the potential modifications to odor, system reliability and permit compliance as well as the greenhouse gas reduction benefit and cost savings associated with the potential modifications. Additionally, staff propose an evaluation of chemical feed systems in the field to include the current Bioxide feed system, potential iron salts system and potential no chemical feed systems.

Item 4, similar to 1, 2 and 3 since it is focused on energy, but differs in that the focus is on renewable energy, not reduced usage. The assessment proposed an update to the March 2017 Solar Evaluation to include floating solar, an update to installation costs and payback based on current market conditions and impacts of pending legislation. Staff concur with this update with the addition of an evaluation of options to purchase clean energy produced offsite or partner with energy providers to produce clean energy onsite.

Items 5 and 6 focus on monitoring and analyzing energy usage and establishing an energy management program. At this time staff are not prepared to move forward with an energy management program but agree that additional data collection and analysis on power consumption is warranted. To facilitate this staff propose installation of power monitor equipment on all electric motors 20 HP or larger, integration of the power monitoring into existing SCADA systems and development of a PowerBI dashboard. The PowerBI dashboard will be used in conjunction with equipment performance curves and operating protocols to evaluate process optimization opportunities and evaluate better the need for an energy management program.

Item 7 focuses on the current biosolids processing operation. In conjunction with deadlines for the Biosolids Processing Facility (BPF) agreement (currently August 2024 for District decision to continue with SWA BPF past August 2029) staff propose a Biosolids Processing Evaluation to include 1) continuing with the current process; sludge holding, belt filter press and participation in the SWA BPF, 2) onsite digestion with onsite dewatering and participation in the SWA BPF, 3) onsite digestion with onsite dewatering and onsite sludge dryer without participation in the SWA BPF. The evaluation will include installation and operating costs as well as greenhouse gas emissions considerations.

No Board action is required at this time. Staff are proposing the above to gain concurrence from the Board on the various initiatives to be explored out of the Operational Greenhouse Gas and Cost Assessment. Staff look forward to understanding the Board's direction on these important items.





# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: D. Albrey Arrington, Ph.D.

FROM: Kris Dean, P.E., Deputy Executive Director/Director of Engineering

DATE: May 12, 2022

SUBJECT: 2500 Jupiter Park Drive – Conceptual Site Plan Option Presentation

In November 2021, the District engaged with Chen Moore and Associates for 2500 Jupiter Park Drive Site Planning. The site planning effort will result in a long-range plan, think over the next 50 years, for 2500 Jupiter Park Drive. The long-range plan will define locations for advanced treatment processes and replacement of existing critical treatment process, warehouse and inventory storage, office workspace, maintenance facilities, equipment and vehicle storage, property access and traffic flow, all with a clear emphasis on site security and access. Additionally, the long range plan will incorporate educational opportunities and potential public access/passive recreation within non-critical passive areas of the site to the extent desired by the Board. Site planning will consist of 6 main tasks; Data Collection and Field Investigation, Regulatory Review, Planning Services, Sustainability Review, Grant Funding Review and Site Planning Memorandum and Presentation.

Site planning efforts are currently focused on Task 3 – Planning Services to understand the future programming required and desired of the site. Part of these services included Board and staff surveys to evaluate the value and importance of various programming elements to individual Board members and staff. The survey results brought into question various elements of the programming leaving staff desirous of further Board engagement and discussion. To this end, Chen Moore will present the survey results and three conceptual site plans to this month's Board.

Attached to this memorandum is the Survey Review Memorandum, summarizing and normalizing the survey results to provide insight to the Board on what collectively and individually was identified as important aspects of future site elements. The Board survey results were divided into 6 categories. The categories, listed from most important to least important as determined by the Board are:

**James D. Snyder**  
CHAIRMAN

**Gordon M. Boggie**  
BOARD MEMBER

**Stephen B. Rockoff**  
BOARD MEMBER

**Dr. Matt H. Rostock**  
BOARD MEMBER

1. Security: \_\_\_\_\_
2. Environmental Resilience: \_\_\_\_\_
3. Aesthetics: \_\_\_\_\_
4. Environmental Sustainability: \_\_\_\_\_
5. Education: \_\_\_\_\_
6. Site Use: \_\_\_\_\_

Also attached to this memorandum are the presentation slides. Included in the presentation slides are Conceptual Site Plans showing 3 potential conceptual site layouts. The conceptual site plans as presented should be taken in the following context: the site plans present programming concepts and areas for facilities to be located showing how the site could be developed over the next 50 years, not footprints or precise layout.

The concepts that are being conveyed include:

1. Secured WWTF – does this include the entire 160 acres or are there areas that limited public access/passive recreation would be allowed and to what level?
2. Administrative staff and public business access as currently located or relocated to reserve the northern portion of the property for WWTF functions within a secured area.
3. Dedicated areas for wastewater treatment, IQ storage, utility corridors, operations/administration are understood to be dedicated spaces for specific purposes. In addition to these areas there are natural landscape areas and wetlands. Should these remain as dedicated spaces or should they collectively be included in the dedicated space for wastewater treatment or other?
4. A significant portion of the property in the northeast corner is dedicated to future use with the intent this would be reserved for potential uses including leased space that would be non-treatment related. Should this remain as dedicated space or be included in the dedicated space for wastewater treatment or other?
5. Education facilities – Should we maintain a specific educational facility (welcome center) long-term in the site plan? Such a Welcome Center could be the meeting site for guided educational tours.

No Board action is required at this time; however, based on the results of the survey staff are seeking Board confirmation of the ranking order of the six survey results categories and Board discussion and direction on the 5 conceptual site plan elements to guide planning efforts moving forward.



## Neighborhood Sewering Schedule-Revised February 2020

Rank *	Area Description	# Lots	Activity	Original Target Date	Revised Target Start Date
11	Jupiter Farms (East)	708		TBD	TBD
11	PB Country Estates	1547		TBD	TBD

\* Rank based upon "2010 Septic System Inventory & Assessment"  
TBD = To be determined

### Remnant Areas

Rank*	Area Description	Lots	Activity	Original Target Date	Revised Target Start Date
H	Olympus Dr, Juno (LP)	2	Notified Owners – June 2013 Prelim. Design started – August 2017 Notice of Intent to Assess – July 2020	2016	2021
	605+607 Military Trl (LP)	2	Notified Owners – June 2020 Notice of Intent – Jan 2021	2022	
	18041 69 <sup>th</sup> Terrace	1	LRD procedures shared for connection to sewer services Statutory Way Provision – Jan 2022	N/A	2022
	5331 Center Street	1	LRD procedures shared for connection to sewer services Notice of Intent – March 2022	N/A	2022
	18150 SE Wooden Bridge Lane	1	LRD procedures shared for connection to sewer services Notice of Intent – May 2022	N/A	2022

Rank *	Area Description	# Lots	Activity	Original Target Date	Revised Target Start Date
AA	Peninsular Road	4	Private Road Notice of Intent – February 2010 Partial construction complete - June 2013 Soliciting easements for remainder of project	2010	AEO
BB	Rivers Edge Road (Martin Co.)	35	Notified Owners – August 2010 Private Road-Easements Solicited –May 2014 Notice of Intent – February 2014 Project Delayed	2013	AEO
CC	171 <sup>st</sup> Street (Martin Co.)	7	Private Road - In House Design Owners notified October 2012 Easement rec'd from Church – April 2017 Grant received	2014	AEO
CC	Jamaica Dr	11	Private Road Owners notified Oct 2012 Statutory Way Provision (2) – June 2021	2014	AEO
D	Loggerhead Park <i>(institutional)</i>	6 ECs	Need Easements from County-No database	2014	AEO
DD	Taylor Road	38	Notified Owners – September 2011 Private Roads	2015	AEO
FF	Rolling Hills	50	Notified Owners – Jan. 2013 - Private HOA Notice of Intent to Assess – October 2019 Award of Contract – December 2021	2017	2021
FF	North A1A	3	Postponed-Town activities in area No database	2012	AEO
GG	815 S US 1 (Yum Yum Tree)	9 ecs	Notified Owner – November 2014	2016	AEO
GG	Rockinghorse <i>(north of Roebuck Road)</i>	11	Notified Owners – January 2013	2018	AEO
GG	Castle Rd SE	5	Notified Owners – Jan 2013-private road	2018	AEO
GG	Jupiter Rd SE	4	Notified Owners – Jan 2013-private road	2018	AEO
HH	Harbor Rd. S. LPSS	6	Notified Owners – January 2014-private road	2017	AEO
HH	Indian Hills SE	12	Notified Owners – January 2016 Easement for Road & Utilities, No Dedication	2019	AEO
16	Limestone Creek Road West	49	Notified Owners – January 2013-private road	2018	TBD
19	US Coast Guard Station Offices <i>(institutional)</i> PX Commercial <i>(commercial)</i>	2 ECs 2 ECs	US Government - private roads-No database Contract for installation of sanitary sewers – September 2020	2019	2021
	109+111 Old Jupiter Beach Road	2	Notified Owners – September 2021		

CURTIS L. SHENKMAN  
*Board Certified*  
*Real Estate Attorney*  
HUNTER SHENKMAN  
*Attorney*

**CURTIS SHENKMAN, P.A.**  
4400 PGA BLVD, SUITE 300  
PALM BEACH GARDENS, FLORIDA 33410  
TELEPHONE (561) 822-3939  
**Curtis@PalmBeachLawyer.Law**

**LEGAL ASSISTANTS**  
**REAL ESTATE**  
JUDY D. MONTEIRO  
DENISE B. PAOLUCCI  
RECECCA TWOMEY

May 12, 2022

Loxahatchee River Environmental Control District  
D. Albrey Arrington, Exec. Dir. and Board Members (sent by email to S. Patel)  
2500 Jupiter Park Drive  
Jupiter, FL 33458

**RE: PENDING LITIGATION STATUS REPORT**

Dear Dr. Arrington and Board Members:

We are enclosing herewith a brief status report relating to the litigation in which the Loxahatchee River Environmental Control District is involved with our law firm as the attorney of record. This status report updates the last monthly status report previously submitted and consists of a summary of the record proceedings which have occurred in each of the pending cases since last month.

There are no analyses of the pending cases included, as the inclusion of such items might constitute a waiver of any attorney/client privilege that exists between our firm and the District. Therefore, if you would like to discuss the particulars of any specific case in more detail or would like to obtain more information concerning the strategy, status, or settlement posture of any of the individual cases, please feel free to contact me.

As always, we are available at any time to discuss any of these lawsuits with each individual Board Member by telephone or by conference, if there are any questions.

Respectfully submitted,

***CURTIS L. SHENKMAN***

CURTIS L. SHENKMAN

Attachments

## **OTHER LITIGATION**

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IN THE CIRCUIT COURT OF THE FIFTEENTH JUDICIAL CIRCUIT, IN AND  
FOR PALM BEACH COUNTY, FLORIDA  
CASE NO. 50-2019 CA 014447 XXXX MB AB

FRED BEMAN, Plaintiff,  
vs.

LOXAHATCHEE RIVER DISTRICT, Defendant.

December 6, 2017. Auto Accident involving District vehicle and vehicle driven by Fred Beman.

April 15, 2020. Summons & Complaint served upon the District.

April 20, 2020. Attorney Lyman Reynolds, appointed be District's Insurance Carrier to Defend the District under the District's Insurance Policy.

May 4, 2020. District's Motion to Dismiss filed.

July 8, 2020. District's attorney reports Motion to Dismiss not yet set for a hearing.

August 19, 2020. Agreed Order permitting transfer of the case to Martin County

Sept 16, 2020. Amended Complaint filed in Martin County

November 16, 2021 Notice of Lack of Prosecution filed in Palm Beach County.

Dec 2, 2021 Summons served on the District; Attorney Reynolds responded with Motion to Dismiss on December 17, 2021.

January 14, 2022. District's Responses to Plaintiff's Request for Production and Interrogatories was filed.

January 31, 2022. District's Motion to Dismiss denied. District's Answer due by February 20, 2022, being prepared by Attorney Reynolds.

February 20, 2022 District's Answer Filed.

April 22, 2022 Deposition of Plaintiff

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Pre-Suit Notice of Claim under FS 768.28 (6)(a)  
Dated August 3, 2020 from Attorney for Plaintiff

Donovan Mackey and Dee Mackey, Plaintiff  
Vs.

LOXAHATCHEE RIVER DISTRICT, Defendant.

On or about October 2019 sewage back up into 141 Beacon Lane, Jupiter, FL 33469 (Jupiter Inlet Colony). Plaintiffs claim personal injury from the sewage back up.

August 3, 2020, District notified District's insurance carrier of the claim.

August 18, 2020, Insurance Adjuster for the District assigned the claim.

Plaintiff cannot file suit until claim is denied. 768.28 (6)(b).

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Pre-Suit Notice of Claim under FS 768.28(6)(a)  
Universal Property & Casualty Insurance Company a/s/o Betty  
Cavanagh & Jules Formel, Plaintiff  
Vs.

LOXAHATCHEE RIVER DISTRICT, Defendant.

On or about November 18, 2020 sewage back up into 18081 SE Country Club Drive, Apt 4-33, Tequesta, FL 33469. The Owners, Betty Cavanagh & Jules Formel made claim to their insurance company, University Property & Casualty Company.

On April 29, 2021, 2020, the Insurance Adjuster for University Property & Casualty Company notified the District's Insurance Company, PGCS Claims Services of the claim.

On July 13, 2021, University Property & Casualty Company, as subrogee of Betty Cavanagh & Jules Formel, notified the District in accordance with 768.28, the District has 6 months from receipt of the letter to investigate this claim and provide formal acceptance or denial. Plaintiffs claim property damage from the sewage back up in the amount of \$26,860. Plaintiff cannot file suit until claim is denied. 768.28 (6)(b).

**LIEN FORECLOSURES**

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**NONE**

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**MORTGAGE OR LIEN FORECLOSURES / LRD COUNTERCLAIMS/CROSSCLAIMS**

**NONE**



***Loxahatchee River Environmental Control District  
Monthly Status Report  
May 2, 2022***

***Submitted To: Kris Dean, P.E, Deputy Executive Director/Director of Engineering***

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The following is a summary of work performed by Baxter and Woodman, Inc. (B&W), on District projects for the monthly period ending May 2, 2022.

**Olympus Drive Force Main and Low Pressure Sewer Replacement**

The following items were ongoing or completed during the last monthly period:

- Final Acceptance letter sent to District April 13, 2022.
- District is processing Final Pay Application for payment.

**Irrigation Quality 511 (IQ-511) Pump Station Piping Improvements**

The following items were ongoing or completed during the last monthly period:

- Project Re-Mobilization date, due to nesting bald eagles, is June 1, 2022.
- Staff will be contacting the District in the next few weeks to discuss re-start with the contractor.

**Lift Station Fall Protection Improvements**

The following items were ongoing or completed during the last monthly period:

- Except for 2 or 3 Stations, Final inspections will be completed the week of May 2, 2022.
- There are 2 or 3 grates that were re-ordered due to fitting problems, delivery is anticipated by May 9, 2022.
- Pending timely delivery of the re-ordered grates, Contractor anticipates achieving Final Completion and Acceptance by the Contract Milestone date of May 26, 2022.

Respectfully Submitted by:

**BAXTER & WOODMAN, INC.**

Rebecca Travis, P.E.

Executive Vice President / Florida Division Manager



May 9, 2022

Mr. Kris Dean, P.E.  
Deputy Director/Director of Engineering  
Loxahatchee River Environmental Control District  
2500 Jupiter Park Drive  
Jupiter, FL 33458

Subject: Monthly Progress Report

Dear Mr. Dean:

The following activities were conducted in the month of April 2022 for the MLS Bypass Study:

1. Finished the assessment of system force main capacity
2. Finished the identification and prioritization of capital projects
3. Finished and submitted Draft Model Documentation and Bypass Study Results TM
4. Followed up with FTC to capture/collect remaining GIS work by FTC

Next month's activities will include:

1. Meet with District to obtain review comments on the Draft TM
2. Address District comments and submit Final Model Documentation and Bypass Study Results TM

Please let me know if you have any questions.

Sincerely,

CAROLLO ENGINEERS, INC.



Elizabeth Fujikawa, P.E., LEED AP  
Vice President

**Loxahatchee River Environmental Control District  
 CMA Project Status Update  
 May 3, 2022**

CMA Project/Proposal #	Name	Status
PROPOSALS		
None		
PROJECTS		
494.001	BLM House Demolition and Reconstruction	<ul style="list-style-type: none"> <li>• Conceptual Design Memorandum and building layout options approved by Board 10/21/21</li> <li>• Coordination meeting held 11/12/21</li> <li>• 90% design, specifications and cost estimate submitted</li> <li>• LRD plan comments addressed</li> <li>• BLM comments (roof attachments) under review</li> </ul>
494.002	2500 Jupiter Park Drive Conceptual Site Planning	<ul style="list-style-type: none"> <li>• Conducted kick off meeting 11/12/21</li> <li>• Environmental field work performed, report submitted, comments received from LRD, revised report submitted</li> <li>• Staff and Board survey performed</li> <li>• Existing site base plan prepared</li> <li>• Review of adjacent stormwater permits performed</li> <li>• Site concept plans prepared</li> <li>• Site visits and meeting with LRD was conducted to review survey results and concept plans</li> </ul>



**HOLTZ CONSULTING ENGINEERS, INC.**  
270 South Central Boulevard, Suite 207, Jupiter, FL 33458 (561) 575 2005

**MEMORANDUM**

**To:** Kris Dean, PE, Deputy Director/Director of Engineering, Loxahatchee River Environmental Control District

**From:** Christine Miranda, PE, Holtz Consulting Engineers, Inc.

**Date:** May 12, 2022

**Subject:** **Loxahatchee River Environmental Control District Monthly Status Report**

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The following is a summary of work performed by Holtz Consulting Engineers, Inc. (HCE) on Loxahatchee River District projects through May 12, 2022. **Note: Any information that is historical or repeated from previous months are shown in italics. Otherwise, all information as shown below is newly reported information.**

**Lift Station No. 082 Improvements**

- *A meeting was held on February 11, 2022 was held with the property manager of the shopping to review and approve the staging and storing areas and the maintenance of traffic plan. HCE assisted and prepared an exhibit to be provided to the property manager for approval. The Contractor is no working on obtaining written approval on the staging and storing areas and maintenance of traffic.*

**Country Club Drive Force Main Transmission System Preliminary Evaluation**

- HCE is currently working on finalizing the model. The final model and results discussed in a technical memorandum will be provided to the District by the end of May.

**Lift Station Telemetry Improvements**

- The bid opening was held on April 26, 2022. There were four bids submitted. Upon review of the bids, the recommendation of award to the lowest responsive and responsible bidder is to Revere Control Systems, Inc. in the amount of \$3,327,270.00.

**Rolling Hills Gravity Sewer System, Lift Station, & Force Main**

- HCE is currently reviewing submittals provided by the Contractor for acceptance. On May 3, 2022, an on-site safety meeting was held with the Contractor, and District and HCE staff. The Contractor has indicated that he intends to mobilize to the project site and commence construction activities on May 23, 2022.

**Jupiter Inlet Lighthouse Septic to Sewer Conversion**

- A preconstruction meeting was held on April 26, 2022 at the District office. Following the preconstruction meeting, and on-site coordination meeting was held on May 3, 2022. HCE



staff is currently reviewing submittals provided by the Contractor. HCE is also working with the Contractor to help facilitate a coordination meeting with FP&L and Comcast for the undergrounding of utilities on the project site.

#### **Deep Injection Well Replacement Cost Study**

- HCE has commenced work on this project. The draft technical memorandum will be submitted to the District for review by July 4, 2022.

#### **Injection Well Pump Manual Transfer Switch Addition**

- *The Standard Operating Procedure (SOP) for the transfer switch has been completed by the HCE design team. The HCE team has reviewed and returned submittals provided by the Contractor. The Contractor has stated they are waiting for equipment deliveries. Upon receipt of materials and equipment they will notify the team and provide a schedule for mobilization and construction activities.*

#### **Master Lift Station No. 1 Traveling Bridge Crane Solicitation**

- *The Contractor has submitted the crane shop drawing. HCE has reviewed and returned the submittal and the Contractor has provided the additional information requested in the review comments. Upon delivery of the crane equipment the Contractor will notify the team and will commence construction activities.*

#### **Emergency Response ESRI Collection Tool & Synovia Vehicle Tracking Assistance**

- *A kickoff meeting for this upcoming season was held on February 11, 2022. HCE created field maps for the lift station map for the District.*



**Loxahatchee River Environmental Control District  
Master Plan 20-AC “Sierra Square” @ 9278 Indiantown Rd  
LRECD PO# 21-0649 / KCI #482021095.01**

**Progress Report**

**To:** Mr. Kris Dean, P.E., Deputy Executive Director/Director of Engineering  
**From:** Todd Mohler, RLA, KCI, Project Manager  
**Date:** May 3, 2022

**ACTIVITIES**

KCI Technologies progress report updates for the current billing period are:

**Activities and Support:**

1. **Survey:** Complete.
2. **Environmental:** Complete.
3. **Geotechnical:** Complete.
4. **Electrical Engineering:** Complete.
5. **Civil Engineering:** Revising budget estimate in progress.
6. **Landscape Architecture:** Revise meeting minutes. Revising budget estimate in progress.
7. **Architecture:** No activity.



# MOCK • ROOS

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CONSULTING ENGINEERS

May 4, 2022

Mr. Kris Dean, P.E.  
Deputy Executive Director/Director of Engineering  
Loxahatchee River Environmental Control District  
2500 Jupiter Park Drive  
Jupiter, FL 33458

Ref. No. C0089.00  
Subject: Loxahatchee River Subaqueous Forcemain Replacement  
PO No. 22-0286

Dear Mr. Dean:

Below is our Monthly update for April 2022:

- Draft Report and Recommendations delivered to District for review. District staff comments discussed and incorporated into final Report.

Upcoming Activities:

- Final copies of Report to be provided.

If you have any questions, please contact me at 683-3113, extension 293.

Sincerely,  
MOCK, ROOS & ASSOCIATES, INC.

Garry G. Gruber, P.E.  
Senior Vice President

GGG:cge  
Copies: John Cairnes  
Spencer Schroeder



# Busch Wildlife Sanctuary

## At Loxahatchee River District

### Quarterly Dashboard -1st Quarter 2022



	Education				Animal Care			Financial Operations			Gift Shop	Volunteers	Safety
	General Public Visitors	Visitors Attending Public Programs	In-reach / Out-reach Program Attendance	Education Net Income	Injured Animals Received / Treated	Animals Released	Average Donation per Animal Admitted	General Donation Income	Grants/Major Donor Income	BWS Net Income	Net Income	Hours Logged	OSHA Recorded Incidents
Benchmark	# of People	# of People	# of People		#	%						#	#
Green	> 25,000	> 3500	> 5500	> \$20,000	< 500	≥30%	≥ \$15.00/Animal	> \$25,000	> \$100,000	≥ \$100,000	> \$10,000	> 2000	0
Yellow	> 20,000	> 2500	> 4000	≥ \$10,000	> 500	≥25%	< \$15.00/Animal	≥ \$15,000	≥ \$50,000	> \$0.00	> \$5,000	> 1500	1
Red	< 20,000	< 2500	< 4000	< \$10,000	>1000	<25%	< \$10.00/Animal	< \$15,000	< \$50,000	≤ \$0.00	< \$5,000	< 1500	>2
2021 Qtr Results													
1st Qtr													
2nd Qtr													
3rd Qtr													
4th Qtr													
2022 Qtr Results													
1st Qtr													
2nd Qtr													
3rd Qtr													
4th Qtr													

#### 1st Quarter Onsite Items:

Projects Completed: Landscape clean up & re-mulching throughout Sanctuary, raised garden beds on Pine Land Nature Trail, Removed Turtle Observation Deck

Projects In Progress: Remulching Pineland Nature Trail, Pressure wash boardwalks

Future Projects: None scheduled at this time

#### 1st Quarter Appearances, Notables, Trainings:

**Trainings:** All Staff Trainings on Golf Cart Safety, Ladder Safety, General Safety, and Personal Protective Equipment, Manager Training in OSHA Recordkeeping

**Onsite Educational Activities:** In addition to daily programming we provided 36 Tours, 5 VIP Tours, 2 Virtual Tours, 16 B-day parties, and 33 Junior Naturalist & Mini Jrs Sessions

**Offsite Educational Activities:** 25 presentations, 3 Exhibits, 2 Third Party Events

**Other Community Events/Notables:** Ceremonial Groundbreaking on Rocky Pines Facilities, feature presenter at the Southeastern Wildlife Expo in Charleston, SC, Evergrene Community 5k run to benefit BWS, Awarded 2021 Outstanding Partner from Florida Youth Conservation Centers Network, presented Women in Wildlife Educational Panel, and an Educational Coyote Program with FWC via Zoom

**Licensing & Permits:** Passed biannual FWC inspection, no noncompliance found.

**Rocky Pines Facilities Build Update:** On schedule





# Director's Report

- |                               |            |
|-------------------------------|------------|
| ➤ Admin. & Fiscal Report      | attach. #1 |
| ➤ Engineering Report          | attach. #2 |
| ➤ Operations Report           | attach. #3 |
| ➤ Information Services Report | attach. #4 |
| ➤ Environmental Education     | attach. #5 |
| ➤ Safety Report               | attach. #6 |
| ➤ Other Matters (as needed)   | attach. #7 |



J:\Board\Notebook\Directors Report





# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

To: Governing Board  
From: Kara Fraraccio, Director of Finance and Administration  
Date: May 13, 2022  
Subject: Monthly Financial Report

### Cash and Investments

Balance as of April 30, 2022  
Certificates of Deposit:

Institution	Original Term	Maturity	Rate	Book Value	Monthly Interest Earned	Market Value
US Century	12 Months	08/04/22	0.25%	\$ 2,500,000	\$ 514	\$ 2,504,610
US Century	12 Months	08/04/22	0.25%	2,500,000	514	2,504,610
Bank United	6 Months	09/12/22	0.10%	1,573,802	129	1,574,013
Bank United	12 Months	11/12/22	0.13%	1,054,256	113	1,054,895
Bank United	9 Months	11/22/22	0.40%	1,001,500	329	1,002,233
Bank United	12 Months	02/22/23	0.60%	1,001,500	493	1,002,600
Bank United	12 Months	02/22/23	0.60%	1,001,500	493	1,002,600
<b>Subtotal</b>				<b>\$ 10,632,558</b>	<b>\$ 2,585</b>	<b>\$ 10,645,561</b>

#### Money Market Accounts:

Synovus - Public Demand	0.06%	\$ 364	\$ 7,373,822
TD Bank - NOW	0.15%	1,019	8,264,708
<b>Subtotal</b>		<b>\$ 1,383</b>	<b>\$ 15,638,530</b>

#### Checking Account:

SunTrust-Hybrid Business Account	0.02%	\$ 242	\$ 16,030,462
<b>Subtotal</b>		<b>\$ 242</b>	<b>\$ 16,030,462</b>

#### Brokerage Accounts:

		Gain/Loss	
Vanguard GNMA ADM	-8.74%	\$ 603,834	(48,530) \$ 555,304
Vanguard Short-Term Treasury	-3.92%	1,205,565	(45,454) 1,160,111
Vanguard Short-Term Inflation	-2.64%	205,574	(5,294) 200,280
<b>Subtotal</b>		<b>\$ 2,014,973</b>	<b>\$ (99,278) \$ 1,915,695</b>

<b>Total</b>		<b>\$ (95,068)</b>	<b>\$ 44,230,248</b>
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Average weighted rate of return on investments is: **-.11%**

As of 4/30/22:

3 month Short Term Bond: .83%

1 month Federal Fund Rate: .33%

District brokerage accounts have underperformed due to abnormal market conditions and uncertainties with the Federal Reserve. However, the District is optimistic that losses will be recovered and that we have an optimized portfolio based on risk and cash flow needs.

Cash position for April 2021 was \$39,702,370. Current Cash position is up by \$4,527,878.

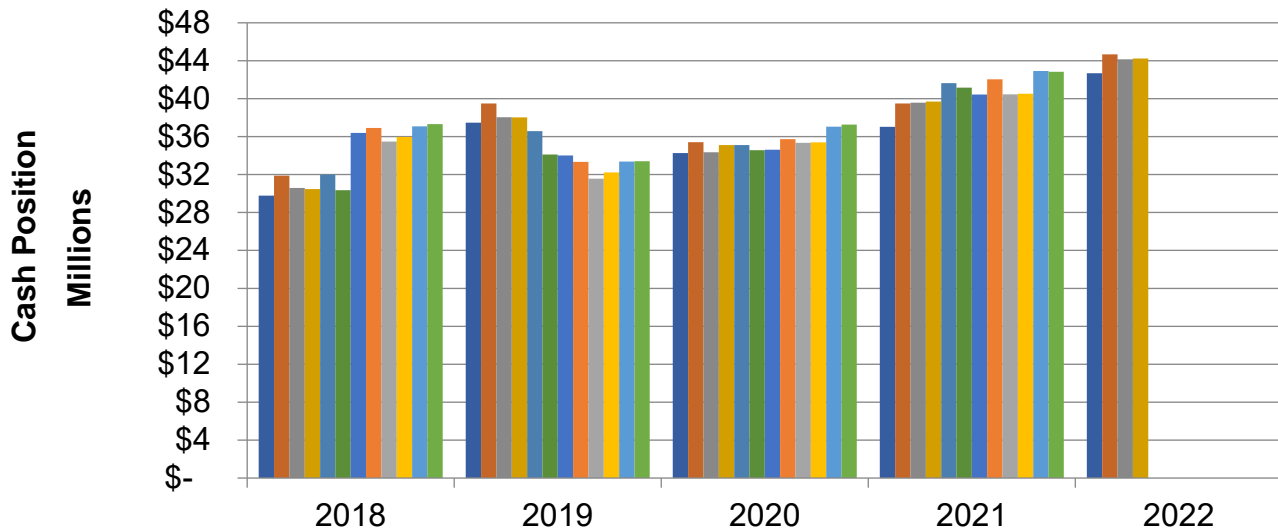
James D. Snyder  
CHAIRMAN

Stephen B. Rockoff  
BOARD MEMBER

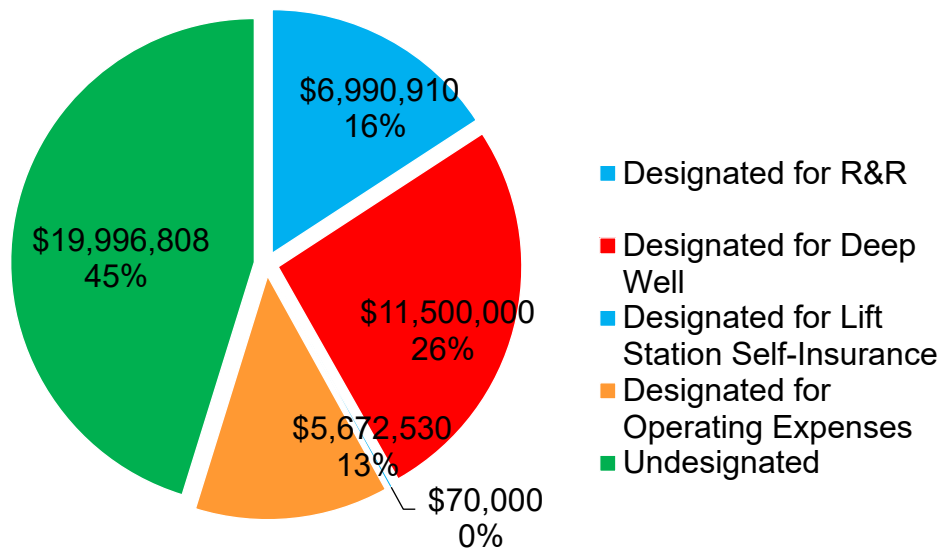
Dr. Matt H. Rostock  
BOARD MEMBER

Gordon Boggie  
BOARD MEMBER

### Cash On-Hand



### Designated vs. Available Cash Balance



### Financial Information

- Legal Fees billed in April were \$15,105. The fiscal year-to-date total is \$45,575.
- There was no Septage billing for the month of April.
- Developer's Agreement – There were no new Developer Agreements in April.
- I.Q. Water Agreements –All I.Q. Water Agreements are current.
- Estoppel fees collected in March totaled \$9,425. The fiscal year-to-date total is \$52,650.

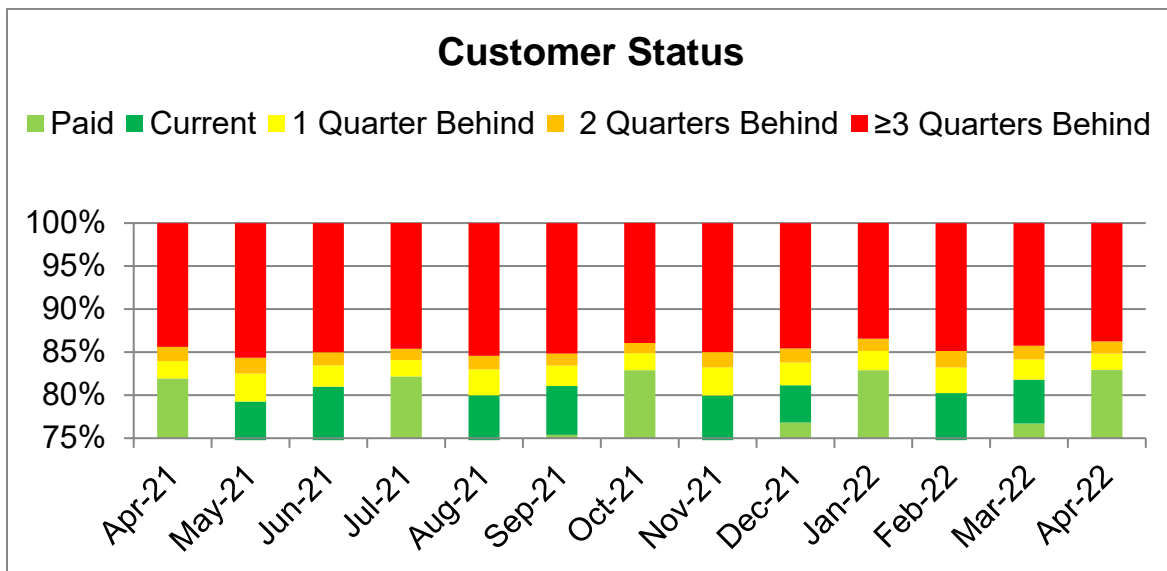
## Summary of Budget vs. Actual

<i>Budget Benchmark</i> 58%	<b>Apr-22</b> <b>Actual</b>	<b>YTD</b> <b>Actual</b>	<b>FY 22</b> <b>Budget</b>	<b>Favorable</b> <b>(Unfavorable)</b>	<b>Budget</b> <b>Expended</b>	<b>Apr-21</b> <b>YTD</b>
<b>Revenues</b>						
<b>Operating Revenues</b>						
Regional Sewer Service	\$ 1,451,635	\$ 9,931,092	\$17,100,000	\$ (7,168,908)	58.08%	\$9,733,811
Standby Sewer Service	9,384	67,950	73,000	(5,050)	93.08%	55,515
IQ Water Charges	194,562	1,338,387	2,326,000	(987,613)	57.54%	1,328,296
Admin. and Engineering Fees	1,256	21,705	38,000	(16,295)	57.12%	24,466
Other Revenue	59,577	317,708	424,490	(106,782)	74.84%	230,328
<b>Subtotal Operating Revenues</b>	<b>1,716,414</b>	<b>11,676,842</b>	<b>19,961,490</b>	<b>(8,284,648)</b>	<b>58.50%</b>	<b>11,372,416</b>
<b>Capital Revenues</b>						
Assessments	\$ 90,227	\$ 1,174,777	1,188,997	(14,220)	98.80%	1,838,681
Line Charges	8,756	104,698	287,000	(182,302)	36.48%	120,755
Plant Charges	14,590	368,292	898,000	(529,708)	41.01%	496,130
Capital Contributions		637	800,000	(799,363)	0.08%	
<b>Subtotal Capital Revenues</b>	<b>113,573</b>	<b>1,648,404</b>	<b>3,173,997</b>	<b>(1,525,593)</b>	<b>51.93%</b>	<b>2,455,566</b>
<b>Other Revenues</b>						
Grants	350,000	350,000		350,000		
Interest Income	14,591	532,285	613,000	(80,715)	86.83%	662,399
<b>Subtotal Other Revenues</b>	<b>364,591</b>	<b>882,285</b>	<b>613,000</b>	<b>269,285</b>	<b>143.93%</b>	<b>662,399</b>
<b>Total Revenues</b>	<b>\$ 2,194,578</b>	<b>\$ 14,207,531</b>	<b>\$ 23,748,487</b>	<b>\$ (9,540,956)</b>	<b>59.82%</b>	<b>\$ 14,490,381</b>
<b>Expenses</b>						
Salaries and Wages	\$ 466,372	\$ 3,352,287	\$6,522,000	\$ 3,169,713	51.40%	\$2,942,630
Payroll Taxes	34,184	240,445	470,200	229,755	51.14%	209,216
Retirement Contributions	64,004	473,190	946,800	473,610	49.98%	443,979
Employee Health Insurance	117,975	823,776	1,558,400	734,624	52.86%	722,856
Workers Compensation Insurance	21,354	49,856	73,700	23,844	67.65%	48,612
General Insurance	127	380,921	374,995	(5,926)	101.58%	355,758
Supplies and Expenses	101,763	613,875	1,036,285	422,410	59.24%	501,289
Utilities	241,840	857,556	1,407,908	550,352	60.91%	739,175
Chemicals	29,422	210,455	503,000	292,545	41.84%	187,069
Repairs and Maintenance	122,123	1,100,542	1,858,362	757,820	59.22%	966,024
Outside Services	149,381	1,149,060	2,040,930	891,870	56.30%	1,065,346
Contingency		0	225,000	225,000	0.00%	
<b>Subtotal Operating Expenses</b>	<b>1,348,545</b>	<b>9,251,963</b>	<b>17,017,580</b>	<b>7,765,617</b>	<b>54.37%</b>	<b>8,181,954</b>
<b>Capital</b>						
Capital Improvements	\$ 392,097	\$ 1,559,829	10,537,513	8,977,684	14.80%	7,097,135
<b>Subtotal Capital</b>	<b>392,097</b>	<b>1,559,829</b>	<b>10,537,513</b>	<b>8,977,684</b>	<b>14.80%</b>	<b>7,097,135</b>
<b>Total Expenses</b>	<b>\$ 1,740,642</b>	<b>\$ 10,811,792</b>	<b>\$ 27,555,093</b>	<b>\$ 16,743,301</b>	<b>39.24%</b>	<b>\$ 15,279,089</b>
<b>Excess Revenues</b>						
<b>Over (Under) Expenses</b>	<b>\$ 453,936</b>	<b>\$ 3,395,739</b>	<b>\$ (3,806,606)</b>	<b>\$ 7,202,345</b>		<b>\$ (788,708)</b>

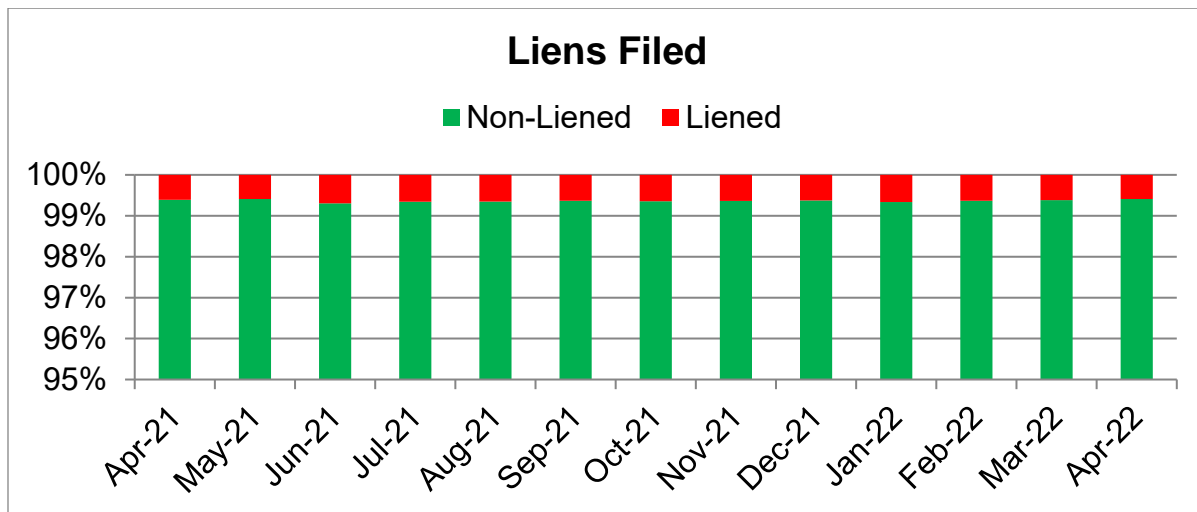
Total Capital expenses incurred and encumbered totalled \$9,382,065 or 89% of the capital budget. This includes funds encumbered in a prior fiscal year for projects that stretch across multiple fiscal years.

## Accounts Receivable

The chart below illustrates customers' receivable status as a percentage of quarterly sewer billing. Paid or current balances represent approximately 81% billing.



The District serves approximately 32,670 customers. Currently, the District has 240 liens filed which represent approximately 1% of our customers.



## Pending/Threatened Litigation

- Vehicle Accident – The District received a legal summons related to a vehicle accident involving a District vehicle. This claim is currently being handled through the District's General Liability Insurance provider, PRIA. PRIA has assigned the firm of Roberts, Reynolds, Bedard & Tuzzio, PLLC to represent the District.
- Beacon Lane – The District received a formal notice that a negligence claim is being made on behalf of a resident on Beacon Lane from injuries sustained as a result of septic and sewage over-flow at the property. We notified the District's legal counsel, the project engineers, the contractor, and the District's General Liability Insurance provider, PRIA.



# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: D. Albrey Arrington, Ph.D., Executive Director  
FROM: Kris Dean, P.E., Deputy Executive Director/Director of Engineering Services  
DATE: May 10, 2022  
SUBJECT: Capital Program and Engineering Services Report

### Capital Projects

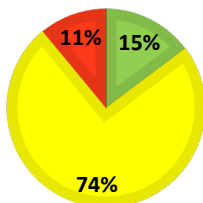
#### *Schedule (FLOAT = -62 Days)*

The overall Capital Program schedule slipped slightly through April. Award of Clarifier # 3 Rebid and the Lift Station Telemetry projects (see Tabs 5B and 5D) scheduled for this month should move the capital program schedule back to green in the June notebook.

### *Budget*

#### FY CAPITAL BUDGET COMMITMENTS

■ SPENT  
■ ENCUMBERED BALANCE  
■ UN-ENCUMBERED



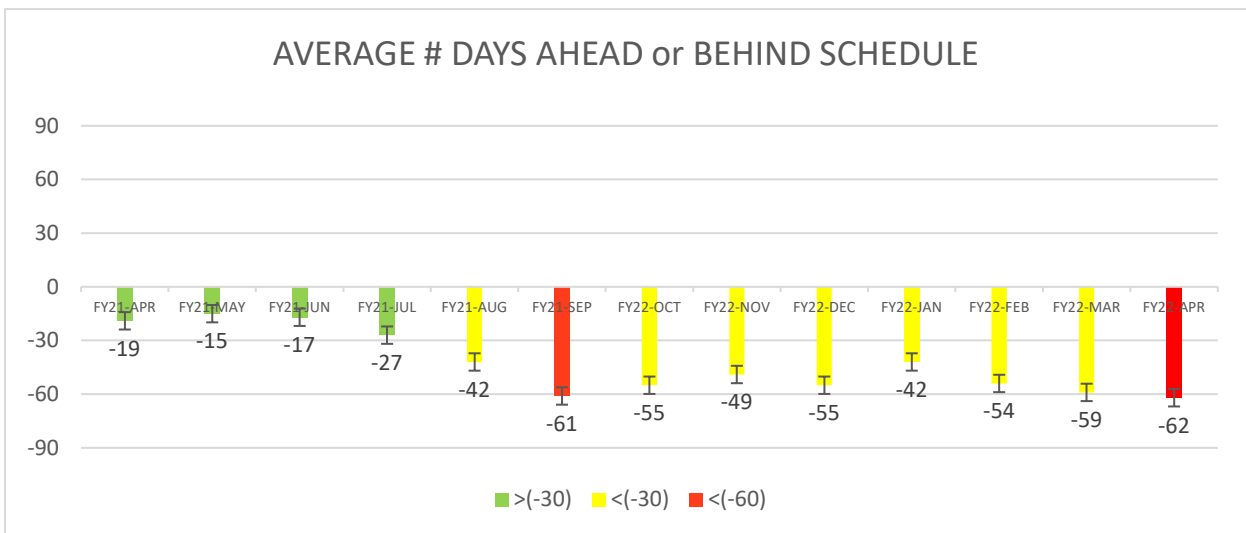
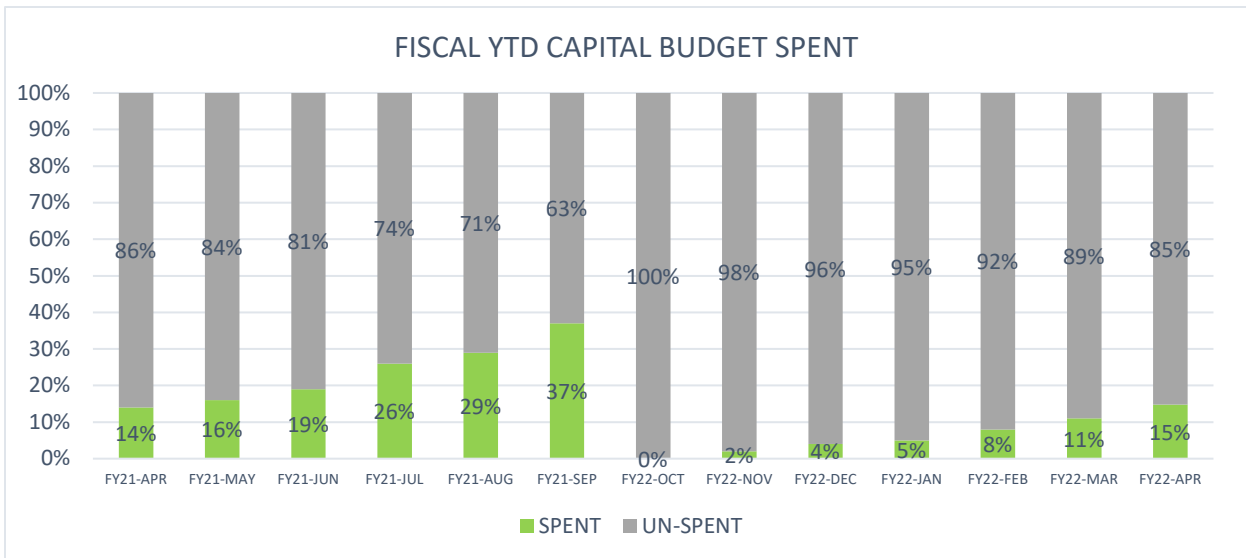
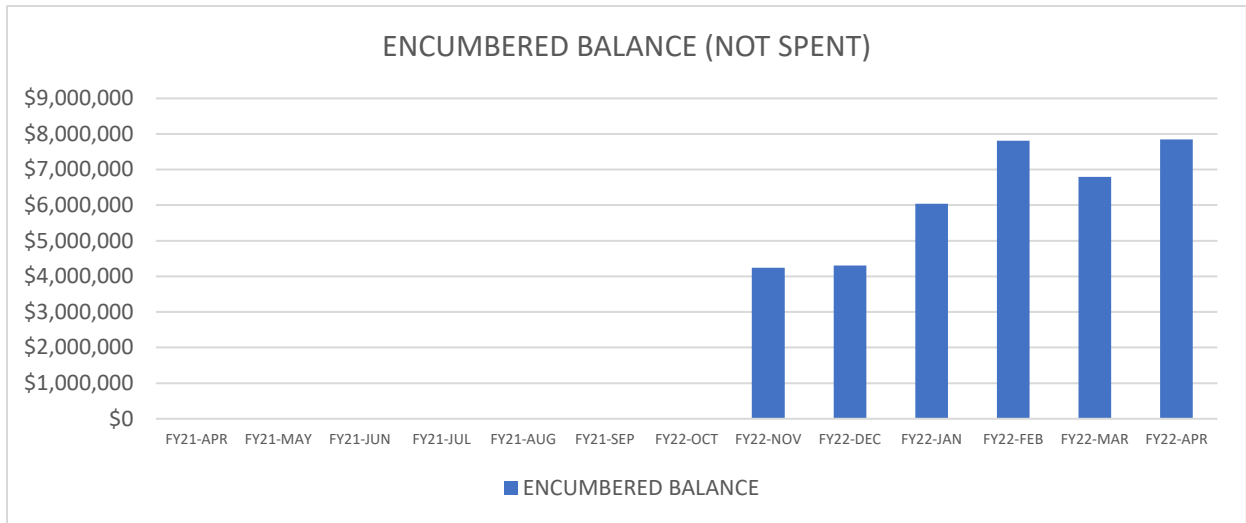
Staff continue working to bring scheduled projects online with the anticipation that the rate of spending will increase significantly as the encumbered balance increases. However, it should be noted that potential impacts from current supply chain issues are impacting lead times on materials for current and proposed projects. These impacts will have a direct impact on spending. As we progress through the second quarter of FY22 we should better understand these impacts.

**James D. Snyder**  
CHAIRMAN

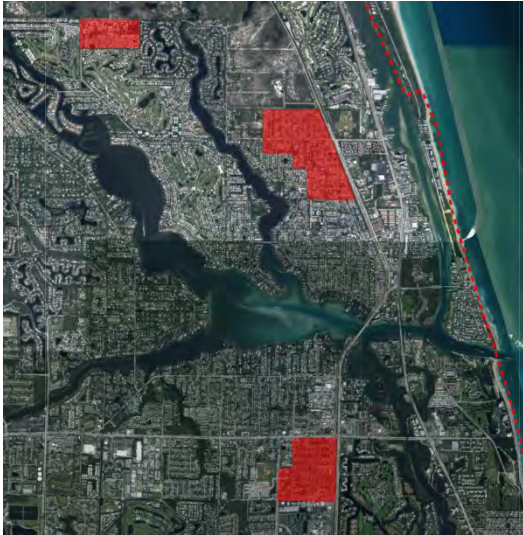
**Gordon M. Boggie**  
BOARD MEMBER

**Stephen B. Rockoff**  
BOARD MEMBER

**Dr. Matt H. Rostock**  
BOARD MEMBER



## In-house Projects



***Gravity System Rehabilitation – Cleaning, TV Inspection and Lining:*** Staff held a preconstruction meeting and issued the Notice to Proceed effective May 9, 2022. The contractor will be performing lining in LS018, LS041 and LS054 collection systems. Construction completion is anticipated this fall.

***Lift Station Rehabilitations General Construction Services:*** Site visits and design have commenced based on the prioritized inspection reports. Engineering is working on design and project set up in EAM to ensure the work moves into construction.

Work is complete at LS059. LS112, LS266 and LS089 are in scheduling. LS064 and LS233 are in design. The new work flow continues to work well with defined coordination between Collections, Inspections, Engineering and Construction.

### ***Neighborhood Sewering/Remnant Properties:***

***5331 Center St.:*** Staff are in design and permitting for 5331 Center Street. This project includes a single service to be installed in easements coordinated by the property owner. Staff anticipate completion by the end of May.

***18041 and 18049 69<sup>th</sup> Terrace:*** The property owner at 18041 69<sup>th</sup> Terrace provided easements and requested staff install sewers to a proposed two-unit residential project. Staff are in design and permitting. This project includes a double service to be installed in easements. Staff anticipate completion by the end of June.

***18150 SE Woodbridge Lane:*** Staff are in design and permitting. The project includes a single service to be installed in right of way. Staff anticipate completion by the end of June.

***Other:*** Recent activity with Statutory Way of Necessity has postponed staff focusing on other remnant properties. Staff anticipate moving forward with remnant properties this spring then coordinating with IT and customer service to re-evaluate our system to confirm remnant areas on public right of way or with easement access have all been served.



### ***Statutory Way of Necessity:***

*Jamaica Drive Low Pressure Sewer:* Over the last two years staff has been coordinating with two property owners for utility easements to install sewers to their properties on Jamaica Drive without success. At this time both property owners have determined Statutory Way of Necessity is the preferred option and entered into letter agreements for staff to proceed on their behalf.

Staff are in design and permitting. This project will include a 2" low pressure force main, two single services with connection to the existing low pressure main in Palm Wood Dr.



### **PROJECT HIGHLIGHT**

#### **US 1 AND MARCINSKY/LS130-VL010 REPLACEMENT**



On April 5-7, the District replaced 16" valve LS130-VL010 located at Marcinski Rd. and US1. Replacement of the valve involved several different entities. The District's Construction Department coordinated permitting, maintenance of traffic and the general construction services contractor. The Collection Department managed the force main shut down which included control and monitoring of several lift stations and oversight of the wastewater, sludge and collection system debris hauler to capture and dispose of residual wastewater in the force main. The Inspection Department assured correct materials and construction standards were used and the installation was leak free at completion.



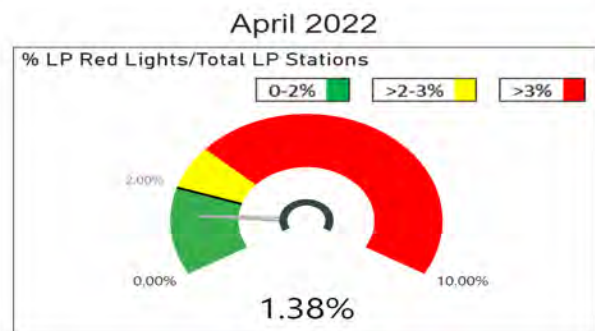
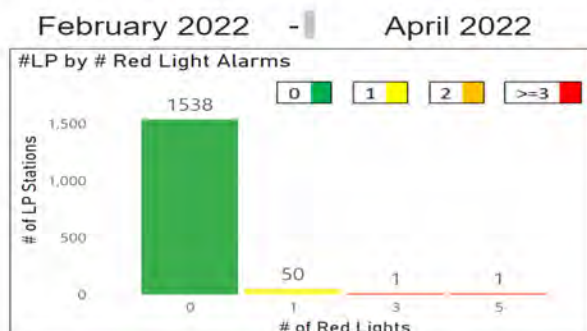
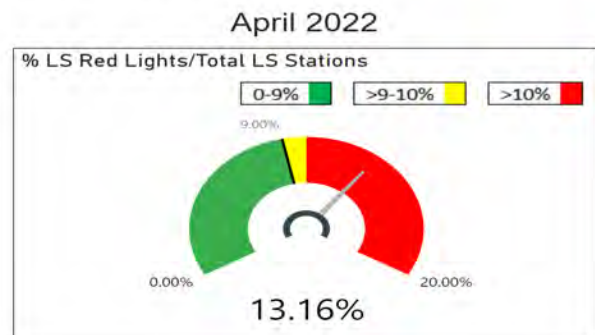
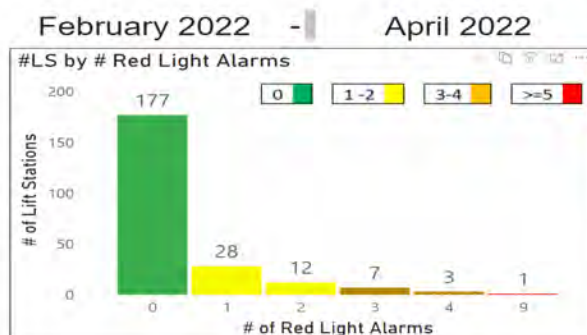


To minimize the shutdown duration the contractor installed line stops on either side of the valve to be replaced. Line stops are installations that allow for sections of the force main to be isolated by installing temporary plugs in the main. When the plugs are removed the wrap around pipe saddle remains in place with a blind flange to create a permanent seal.

## COLLECTIONS AND REUSE DASHBOARD

**Lift Station Red Lights:** This month the system experienced 62 total red lights. 33 lift station red lights (with 5 stations experiencing multiple red light events) and 29 low pressure red lights (with 2 stations experiencing multiple red light events). The increase in low pressure redlights being attributed to a blocked force main in US 1 north of County Line Rd.

### Emergency Call Work Orders Dashboard



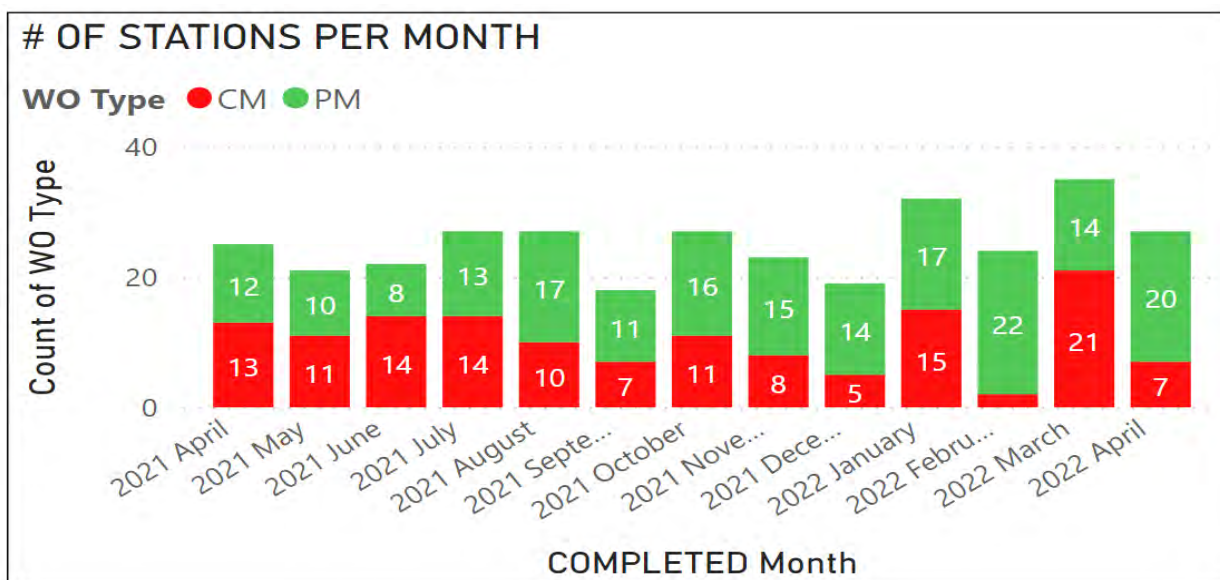
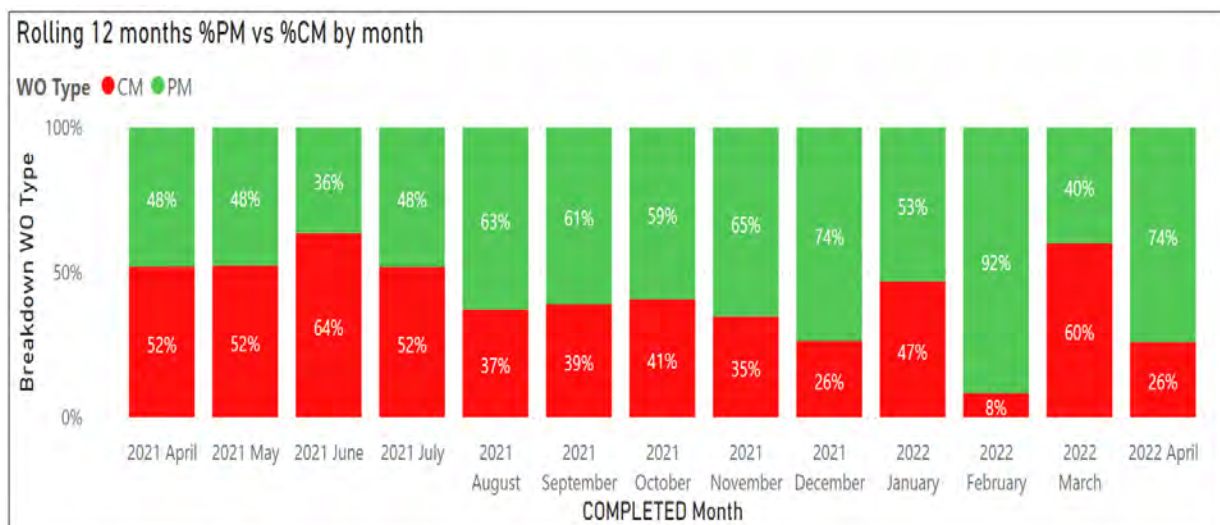
**Air Release Valves:** The ARV evaluation process has resulted in 98 ARVs inspected year to date (May 9, 2022). Of all inspected ARV's from beginning of reporting, January 2020, 98 are out of service.

#### MONTHLY ARV INSPECTIONS

Visits													Out of Service	
Year	January	February	March	April	May	June	July	August	September	October	November	December	Total	98
2020	25	35	63	39	23	33	14	24	56	17	15	13	285	
2021	11	33	58	88	34	33	11	23	41	19	24	21	291	
2022	5	20	23	30	22								98	

**Wet Well Cleaning:** Unscheduled wetwell cleanings returned to a reasonable percentage this month after last month's increase. Unscheduled wetwell cleanings totaled 7 for the month.

Unscheduled cleanings for the month of March were up significantly, a review of the data determined 9 stations that were previously not on the preventative maintenance program that are being evaluated to be placed on the preventative maintenance program.



### **UNAUTHORIZED DISCHARGES (fka SANITARY SEWER OVERFLOWS)**

There were 3 unauthorized discharges in the collection-transmission-distribution system this month.

On April 13, 2022, the Loxahatchee River District (LRD) had an unauthorized discharge of 5 gallons of sewage from a residence low pressure system (LP0019) located on SE Federal Highway (US1) in Tequesta, FL. The unauthorized discharge was caused when the low pressure system wet well was not pumped out in a timely manner by LRD personnel using a contract pump truck during a force main cleaning. The unauthorized discharge was stopped when the system was restored to normal. The unauthorized discharge was absorbed into soil and the affected area was disinfected with lime. No known storm drains or bodies of water were affected.

On April 19, 2022, the Loxahatchee River District (LRD) had an unauthorized discharge of 122 gallons of sewage from an air release valve manhole (LS133-VLA03) located on Olympus Drive in Juno Beach, FL. The unauthorized discharge was caused when an air release valve did not seat after release of air. The unauthorized discharge was stopped when lift station system supplying the force main was shutdown. The unauthorized discharge traveled out of manhole lid approximately 100 feet east from the manhole on Olympus Drive and then 65 feet south on Ocean Drive. LRD crews used a vacuum truck to recover the unauthorized discharge along with 74 gallons of potable water used to pressure wash the area and the affected area was disinfected with lime. No known storm drains or bodies of water were affected.

On April 20, 2022, the Loxahatchee River District (LRD) had an unauthorized discharge of 15 gallons of sewage from a residence low pressure system (LP0555) located on SE Harken Terrace in Tequesta, FL. The unauthorized discharge was caused by a cracked service check valve located in the low pressure system service box. The unauthorized discharge was stopped when LRD personnel arrived and closed the isolation valve and shut down the low pressure system. LRD crews used a vacuum truck to recover 10 gallons of the unauthorized discharge and 5 gallons was absorbed into soil. The affected area was cleaned with potable water and disinfected with lime. No known storm drains or bodies of water were affected.

On April 29, 2022, the Loxahatchee River District (LRD) had an unauthorized discharge of 75 gallons of sewage from a force main (LS148-FM034) located on SE Federal Highway in Tequesta, FL. The unauthorized discharge was caused by an overflow of sewage that was released when a blockage was cleared in the force main. The unauthorized discharge was stopped when the residual wastewater dissipated. LRD crews used a vacuum truck to recover 65 gallons of the unauthorized discharge and ½ cubic yard of contaminated soil. The remaining 10 gallons was absorbed into the soil. No known storm drains or bodies of water were affected.





# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: Albrey Arrington, Ph.D., Executive Director

FROM: Jason A. Pugsley, P.E., Operations – Plant Manager

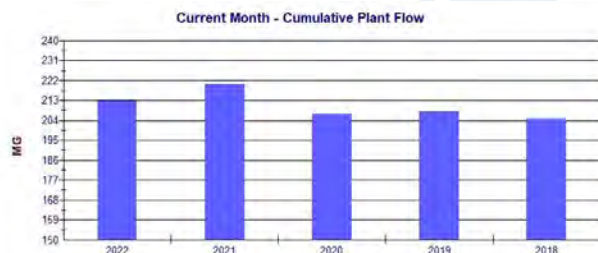
DATE: May 11, 2022

SUBJECT: April 2022 Operations Department Monthly Report

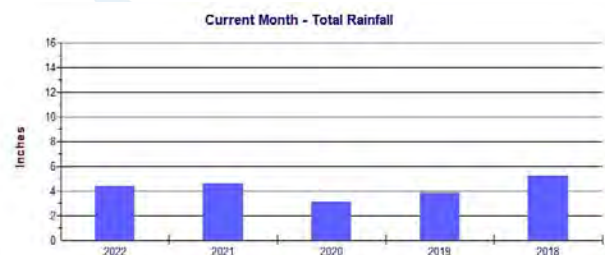
### Treatment Plant Division/Maintenance Department

Overall, the month of April was productive with all monthly reports prepared and submitted on time. There were no permit exceedances this month. The treatment plant generally operated efficiently and met all treatment objectives. Plant flows during the month of April were generally within the same order of magnitude as the flows recorded during the month of March. The plant did not experience any unauthorized discharges during the month April.

Graphical summaries of the plant flows and rainfall during the month of April including comparisons with plant flows during the previous month (i.e., March 2022) are presented below.



The Cumulative Influent Flow to the plant for the month of April was 212.57 million gallons. This is slightly less than the March flow of 223.17 million gallons.



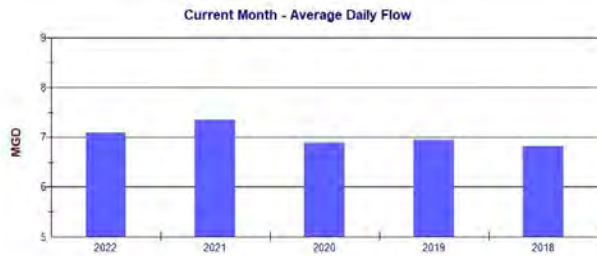
4.39 inches of total rainfall was recorded at the plant site during the month of April. This is greater than the March rainfall recorded of 2.47 inches.

James D. Snyder  
CHAIRMAN

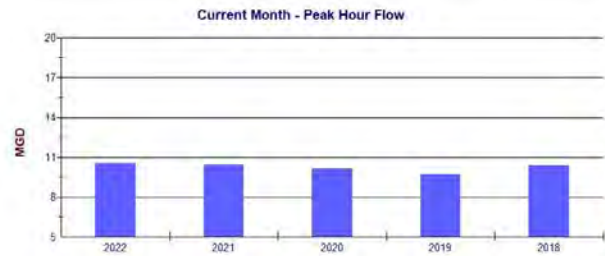
Gordon M. Boggie  
BOARD MEMBER

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER



The Average Daily Flow (ADF) for the month of April was recorded at 7.09 MGD compared to 7.20 MGD during the month of March and 7.35 MGD during April 2021.

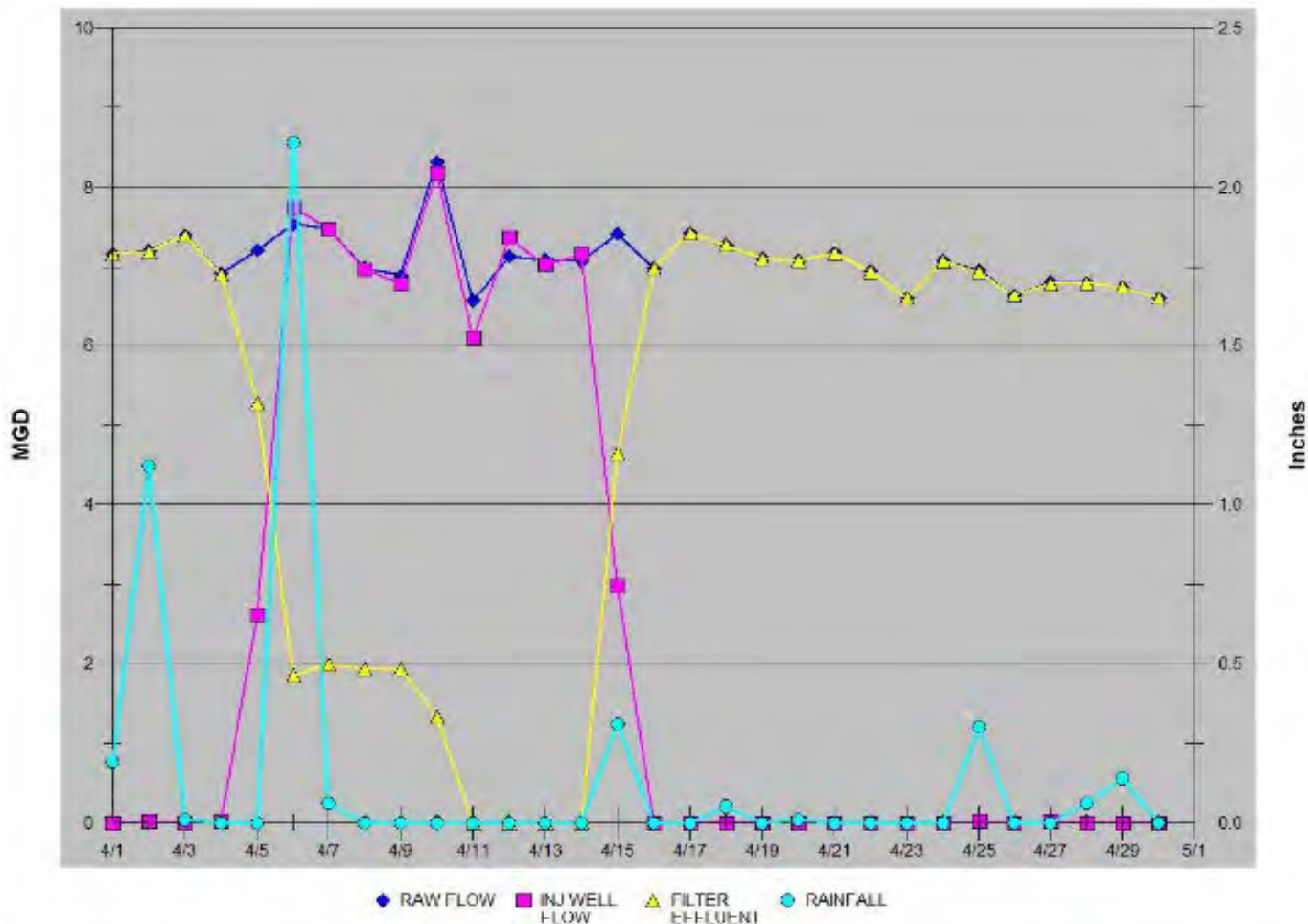


The Peak Hour Flow (PHF) for April was 7,340 GPM which equates to an equivalent daily rate of 10.57 MGD. This is an increase when compared to the PHF for March of 6,326 GPM (9.11 MGD).



The Maximum Daily Flow (MDF) in April was 8.32 MGD. This is higher than the MDF for April of 7.51 MGD.

For the month of April, 71.41 % or 151.79 MG of the cumulative influent flow to the plant was sent to the IQ storage system where it was distributed, as needed, to the various golf courses and the Abacoa development sites. A total of 70.45 MG of blended effluent was diverted to the Deep Injection Well. The plant delivered a total of approximately 210.45 million gallons of IQ water to the reuse customers during the month of April.



Year to date (i.e., Calendar Year 2022), approximately 73.80% of all influent flow to the plant was treated and available for reuse as IQ water. The total volume of IQ water distributed to reuse customers for the year stands at 718.85 million gallons.

**All monthly reporting was submitted on time.**



### **Treatment Plant:**

Operations Staff continued to work diligently to perform routine monitoring, sampling and general maintenance of equipment and structures. Staff also completed special projects during the month including the completion of three-year preventative maintenance work on the air scrubber unit dedicated to the chlorine building.



**Chlorine Building Air Scrubber Unit**

The completion of this task required the plant chlorination system to be taken completely offline for a one-week period. The work included the replacement of specific mechanical wear items as well as the acid cleaning of the packing media used within the tower. Overall, the unit was found to be in good working order with very minimal scaling noted on the packing media.



**Packing Media – Pre-Cleaning**



**Packing Media – Post-Cleaning**

During the last monthly period, Staff took advantage of the plant chlorination system being offline to coordinate with the manufacturer's certified service company to perform annual maintenance and overhaul of the chlorine regulators, chlorinators, and ejectors. The work included replacement of critical mechanical components including springs, diaphragms, and seals. The work also included the replacement of all vacuum tubing and fittings on the chlorination system. This work is critical to the continued safe and efficient operation of the chlorination system.



**Chlorine System Smart Valve**



**Vacuum Monitoring System**

Lastly, Operations worked with a speciality contractor to complete the annual calibration of all Krohne instruments in service at the district's wastewater treatment plant site. The types of instruments calibrated included inline magnetic flow meters, pressure transmitters and conductance meters. The regular calibration of these instruments ensures that all data required to demonstrate permit compliance and to make critical plant process modifications are accurate.

One final note, I wanted to recognize Remi Gadoua for passing his FDEP Class C wastewater license examination. After transferring from the Collections Department about a year ago, Remi has worked diligently to receive this qualification. Keep up the great work Remi!

Electromagnetic Flowmeter Verification Certificate			
<b>Customer Data</b>		<b>Verification Data</b>	
Name	Loxahatchee River District	Inspector	Chris Hill
Address	2500 Jupiter Park Drive Jupiter, FL 33458	Location	EQ-RTR-FL-AMTR
Phone	561 401 4180	Date Performed	2022-04-12 11:17:20
Email	nathan.jerwin@lrcd.org	Certificate Printed	2022-04-12 11:24:51
		Verification Type	Level 2
		Reason	Annual
<b>Test Results</b>		<b>Test Results</b>	
<b>Test Module</b>	<b>Result</b>	<b>Test Module</b>	<b>Result</b>
<b>OPTICHECK Identification</b>	<b>PASSED</b>	<b>NO Tests</b>	
Determine Attributes	PASSED	Current Output Terminal A (active)	PASSED
<b>Master Identification</b>	<b>PASSED</b>	Current Output Terminal B (passive)	PASSED
Determine Attributes	PASSED	Status Output Terminal B (passive)	PASSED
Check Device Status	PASSED	Control Input Terminal B (passive)	PASSED
<b>Sensor Electronics Tests</b>	<b>PASSED</b>	Status Output Terminal C (passive)	PASSED
Test Coil Circuit	PASSED	Status Output Terminal D (passive)	PASSED
Test Electrode Circuit	PASSED	Frequency Output Terminal D (passive)	PASSED
<b>Sensor Tests</b>	<b>PASSED</b>	<b>Final Tests</b>	
Test Coils	PASSED	Check Reconnection	PASSED
Test Electrodes	PASSED	Status of Terminal A	PASSED
		Status of Terminal B	PASSED
		Status of Terminal C	PASSED
<b>Overall: PASSED</b>			
<b>Required User Actions:</b> No action required			
<b>Flowmeter Details</b>		<b>OPTICHECK Details</b>	
Device Type	OPTIFLUX 2300	Supported Meters	Electromagnetic, Mass, Vortex, Level
Serial No.	104677946	Type	OPTICHECK Master
Converter Serial No.	104677946	Version	4.1.2
Converter C/D No.	CG30011100	<b>Application Details</b>	
V-Number Sensor		Process Medium	raw
Electronic Revision	ER3.4.1	Temperature	75 °F
GK / GKL	GK 3.9507 GKL 7.9579	Pressure	30 psi
Nominal Diameter	250 mm 10 inch	Inlet	5 DN
Line		Outlet	3 DN
Electrode Material		Empty Pipe	No
Calibration Date	2018-04-05	Bootstrap connection	No
Tag	04677946		
<b>Comments:</b>			
These tests verify that your instrument is running without any errors and complies with the requirements for traceable verification according to DIN EN ISO 9001:2008 Section 7.6.			
4/12/22		Chris Hill	
Date		Inspector's Sign	

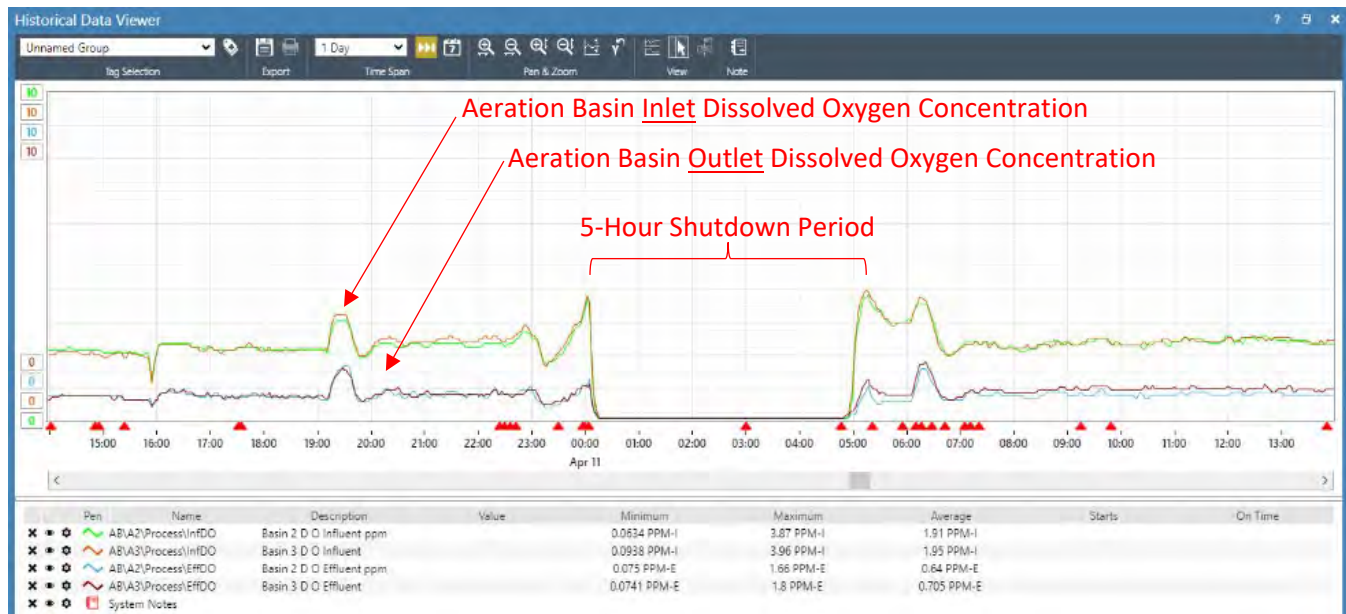
**Instrument Calibration Certificate**



## **Maintenance Department:**

The Maintenance Department continued to efficiently perform planned maintenance (PM) tasks over the last monthly period. In addition to the completion of standard PM tasks the Maintenance Department addressed non-routine maintenance items as well as “special projects”. A few examples of these types of projects are presented below.

The Maintenance Team worked closely with the Operations Team to replace a 16-inch diameter butterfly type isolation valve as well as an 8-inch check valve on the discharge side of Process Air Blower No. 1. The Corrective Work Order initially included the replacement of the discharge check valve, only, but when Maintenance Staff attempted to close the isolation valve to facilitate replacement of the check valve it was discovered that the isolation valve would not fully seat. As a result, the repair became significantly more complicated. This is because to replace the isolation valve the entire process air system needed to be removed from service for an extended period. The district’s treatment plant uses an aerobic activated sludge treatment process which requires a constant supply of oxygen to maintain a healthy and vibrant biomass population. As such, temporarily terminating the delivery of air to the aeration basins needed to be completed with extreme caution and proper planning. To minimize the potential impacts, it was determined that the work should be completed during the early morning hours when influent flows to the plant are generally the lowest. In the end, the shutdown of the process air system lasted approximately 5-hours and there were no discernible impacts to the plant treatment processes. All work was performed in-house by our skilled Maintenance Team members with coordination and assistance from our highly competent plant Operators.



**Aeration Basin Dissolved Oxygen - SCADA Chart**



### **Process Air Blower No. 1 – Process Air Piping and Valving**

During the month of April, the Maintenance Team also completed the 5-Year preventative maintenance work order on Mechanical Bar Screen No. 1 (eastern unit) located at the headworks structure. The proper operation of the screen is critical to the removal of inorganic wastes (i.e., plastics, paper, floatables, etc.) in the influent waste stream discharged to the District's WWTF. The removal of these types of waste ensures that all downstream processes operate as efficiently as possible and that these wastes do not pass through the plant and get discharged with the treated effluent and/or biosolids. The maintenance work included the replacement of the gearbox and drive units for both the screen element and the rotating brush assembly. The completion of the work required the unit to be temporarily removed from service. The Maintenance Team worked closely with the Operations Team to identify an appropriate time to complete the work. To minimize the shut down duration, the replacement of the drive units was completed concurrently.





**Maintenance Team Member – John Smith**



**Maintenance Team Member – Ross Cowell**



**Final Gearbox and Drive Replacement Photos**



# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

TO: Albrey Arrington, Ph.D., Executive Director  
FROM: Bud Howard, Director of Information Services  
DATE: May 10, 2022  
SUBJECT: Information Services Monthly Governing Board Update for April 2022

### WildPine Ecological Laboratory

#### Riverkeeper Project

In April, the lab staff and our partners collected water quality samples from 27 monitoring stations throughout the watershed. In addition, a total of 67 bacteria samples were tested for fecal indicator bacteria in support of additional testing for the weekly bacteria monitoring program, and the monthly testing in Jones and Sims Creeks.

The overall water quality score for April 2022 was “Good” with 82% of all samples meeting the EPA/DEP water quality criteria. This was slightly lower than last month’s score of 88% and somewhat higher than last year’s score for April of 78% (see score card below). In general, the water quality scores are typically better through the winter and spring months, corresponding with the dry season. Some differences between last month and this month that affected the scores were the scheduled quarterly nutrient testing in the Jones and Sims tributaries and a few rain events early in the month.

When looking at specific water quality parameters, total Nitrogen scored “Good” during April with 96% of sites meeting the water quality criteria, similar to last month’s score of 100% and last year’s score of 93%. Total Phosphorus scored “Good” with 81% of sites meeting the criteria, down from last month’s score of 100% and identical to last year’s 81%. Chlorophyll, which frequently struggles to meet the stringent water quality criteria, has sharply declined this month to a “Poor” status of 48%, nearly half last month’s score of 88%, and even worse than last year’s score of 56%. For the combined Fecal Indicator Bacteria (fecal coliforms in all waters, enterococci in marine and brackish waters and *E. coli* in fresh waters), April scores were “Good” at 91%, and better than last month’s 83% and last year’s 81%.

James D. Snyder  
CHAIRMAN

Gordon M. Boggie  
BOARD MEMBER

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER



4/1/2021

4/30/2022



# Loxahatchee River District Water Quality Scorecard

Results scored to FDEP/EPA Water Quality Criteria

Green - Good: 80% - 100%  
Yellow - Fair: 60% - 79.9%  
Red - Poor: < 60%

## Monthly Water Quality Score

April  
2022

82%  
Overall

147  
Total Samples

TN: Total Nitrogen, TP: Total Phosphorus, CLA: Chlorophyll a, BAC: Enterococci and E. coli bacteria

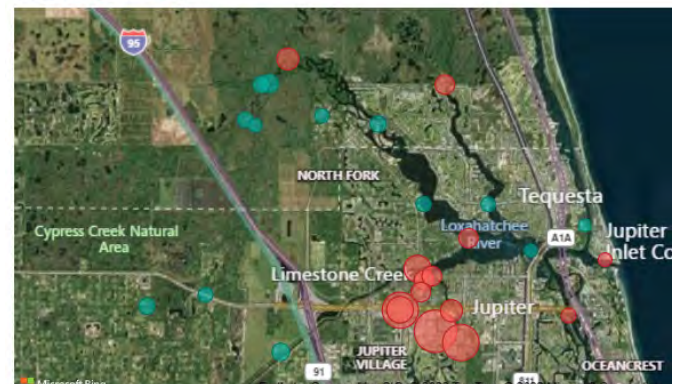
Year	Month	# Samples	Overall Score	# TN Samples	Total Nitrogen Percent Good	# TP Samples	Total Phosphorus Percent Good	# CLA Samples	Chlorophyll Percent Good	# BAC Samples	Bacteria Percent Good
2022	April	147	82%	26	95%	27	81%	27	48%	67	91%
2022	March	123	88%	16	100%	16	100%	16	88%	75	83%
2022	February	153	86%	26	88%	26	88%	26	85%	75	84%
2022	January	152	88%	28	100%	28	89%	28	79%	68	85%
2021	December	126	87%	17	100%	17	94%	17	76%	75	84%
2021	November	129	86%	26	92%	26	92%	26	81%	51	82%
2021	October	164	70%	28	100%	28	75%	28	50%	80	64%
2021	September	164	67%	24	96%	24	83%	24	50%	92	60%
2021	August	184	66%	26	77%	26	73%	26	65%	106	62%
2021	July	243	57%	55	98%	55	62%	55	18%	78	51%
2021	June	117	82%	16	100%	16	88%	16	69%	69	80%
2021	May	136	88%	22	95%	22	91%	22	64%	70	91%
2021	April	148	78%	27	93%	27	81%	27	56%	67	81%
Total		1986	77%	337	95%	338	82%	338	59%	973	75%

## Spatial Distribution of Water Quality Results

Chlorophyll scored "Poor" at half of all sites tested and ranged from 9 to 34 µg/L. April is a scheduled quarterly month for additional chlorophyll testing in Jones and Sims Creeks and were the areas where we saw the majority of the higher values. It is not unusual to see these high values in the Southwest Fork when there is little or no flow from the S-46 flood control structure and rising water temperatures. Caloosahatchee Culvert (CALC) in Jones Creek had the highest result at 34 µg/L, six times higher than the NNC of 5.5 µg/L.

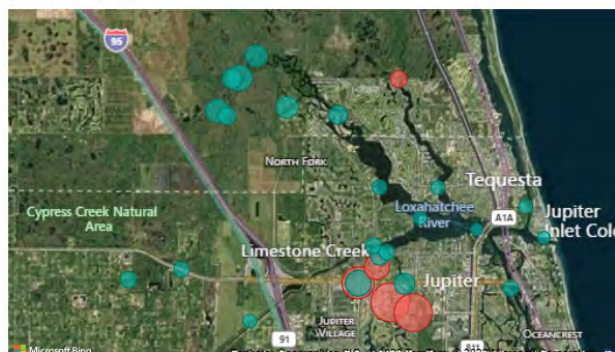
Chlorophyll a (µg/L)

CHL\_Score ● GOOD ● POOR



Total Phosphorus (mg/L)

TP\_Score ● GOOD ● POOR

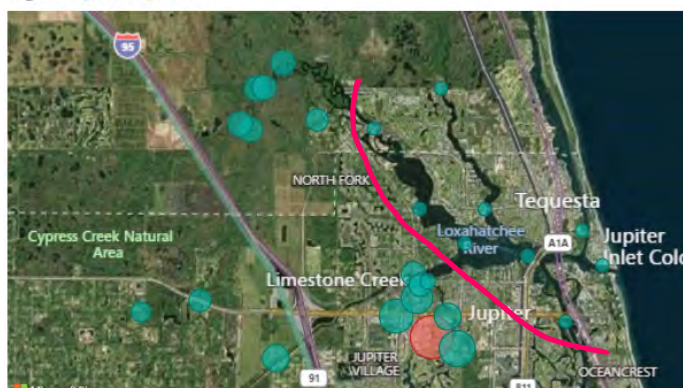


Total Phosphorus scored “Good” at all sites but 5 in April. As with chlorophyll, the highest concentrations were in the Southwest Fork with 2 sites in Jones Creek and 2 sites in Sims Creek. The “Poor” results ranged from a high of 0.15 mg/L at Caloosahatchee Culvert (CALC) to 0.08 mg/L at the Sims Creek trailer park (735).

Total Nitrogen scored “Good” at all but one site in April. Like chlorophyll and phosphorus, the highest concentrations of nitrogen were found in the Southwest Fork. Caloosahatchee Culvert (CALC) in Jones Creek had the highest nitrogen result at 1.5 mg/L, which scored “Poor” for that station. There is a clear distinction between the estuary results (less than 0.5 mg/L) and the data for the upper reaches to the North, Northwest, and Southwest Forks (greater than 0.5 mg/L) as indicated by the pink dividing line.

Total Nitrogen (mg/L)

TN\_Score ● GOOD ● POOR



The fecal indicator bacteria results for the 2021/22 dry season continue to score “Good” overall with April being one of the best months all year. However, Jones/Sims Creeks and Rivers Edge again scored “Poor” this month as they were over the water quality criteria and results continue to hover in the low thousands in April. For Enterococci (see map below left), the preferred indicator organism for saltwater, the Toney Penna footbridge (TPJ) in Jones Creek had the most enteric bacteria colonies at 3,784 MPN/100 mL. Caloosahatchee culvert (CALC), also in Jones Creek, had the second highest enteric count at 3,609 MPN/100 mL. We continue to study this hotspot as we prepare for future lab microcosm experiments to try to improve our understanding of why bacteria is persisting in this area. In Sims Creek, the poorest station was at the mobile home (Station 735) with 1,918 MPN/100 mL. Additionally, Rivers Edge (Station 107) was higher this month at 1,918 MPN/100 mL, although we have recorded much higher levels in the past. For E. coli (see map below right), the preferred organism for freshwater, all stations were “Good” this month when compared to FDEP’s water quality criteria for E. coli.

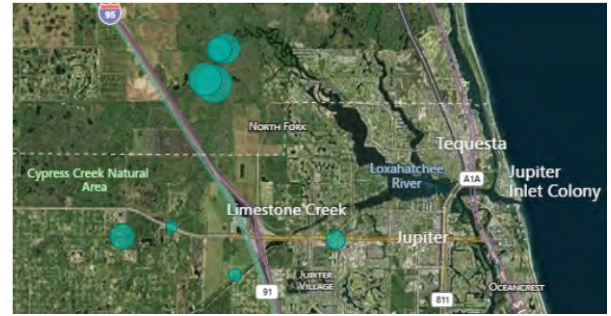
Enterococci Bacteria - Criteria: 130 MPN/100mL

ENT\_Score ● GOOD ● POOR



E. coli Bacteria - Criteria: 410 MPN/100mL

ECOL\_Score ● GOOD

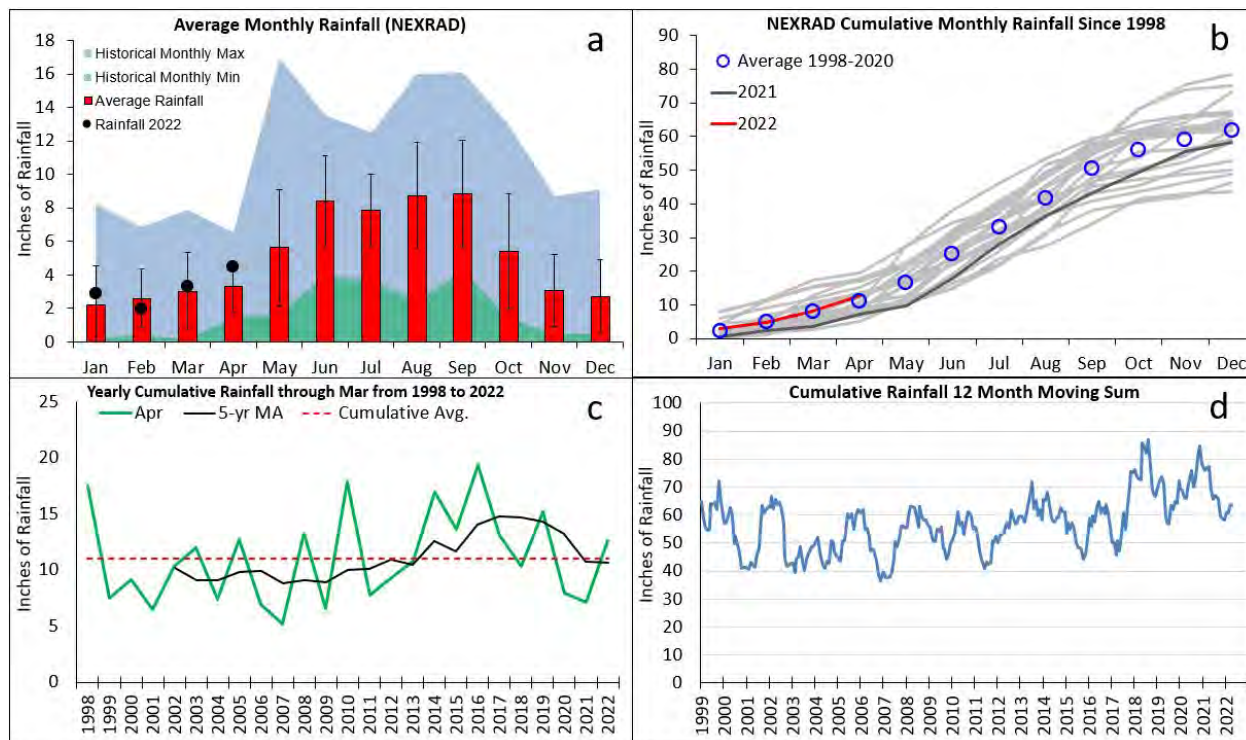


## Hydrologic Monitoring

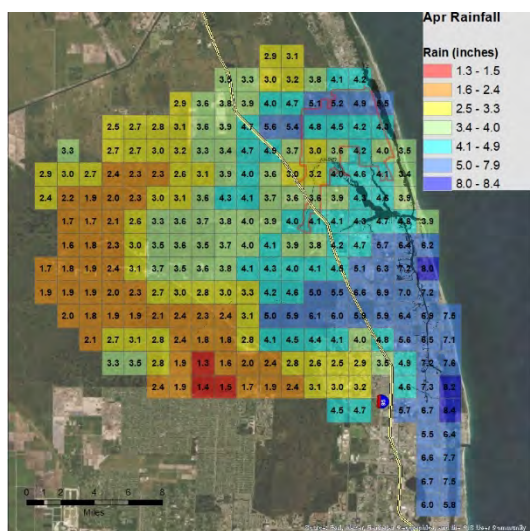
Rainfall for 2022 continues to generally follow historical averages. Rainfall measured across the watershed during April averaged 4.5" which is about 36% higher than the 3.3" historical average for the month (panel 'a' in figure below) and slightly higher than the 3.7" monthly rainfall measured during April 2021. Rainfall was detected within the watershed during 17 days in April with the highest single-day total of 1.1" recorded on April 6 as a frontal boundary moved through the area.

Cumulative rainfall through April is 12.6", about 15% higher than the historical average of 11.0" (panel 'b' in figure below) and is substantially higher than during the same period last year which had 7.1" through April (panel 'c' in figure below). The rolling 12-month rainfall sum (May 2021 – Apr 2022) continues a downward trend at 63.9" compared to 77.5" measured during the same 12-month period last year (panel 'd' in figure below).





Figures above display various measures of rainfall. Panel (a) shows average monthly rainfall from 1998 to 2021 (red bars; error bars indicate  $\pm 1$  sd). Black dots indicate monthly rainfall for 2022. The blue and green shaded areas show the maximum and minimum rainfall ever recorded for each month. Panel (b) shows monthly cumulative rainfall for each year since 1998. Red line indicates cumulative rainfall during 2022; dark gray line indicates rainfall during 2021. Blue circles are monthly cumulative average rainfall measured between 1998-2020. Panel (c) shows cumulative annual rainfall using NEXRAD radar-based data. Green line indicates cumulative rainfall through April for each year since 1998, when the radar-based rainfall measurements began. Black line is the 5-year moving average across all years and red dashed line shows cumulative average through indicated month. Panel (d) shows cumulative 12-month moving sum of monthly rainfall.

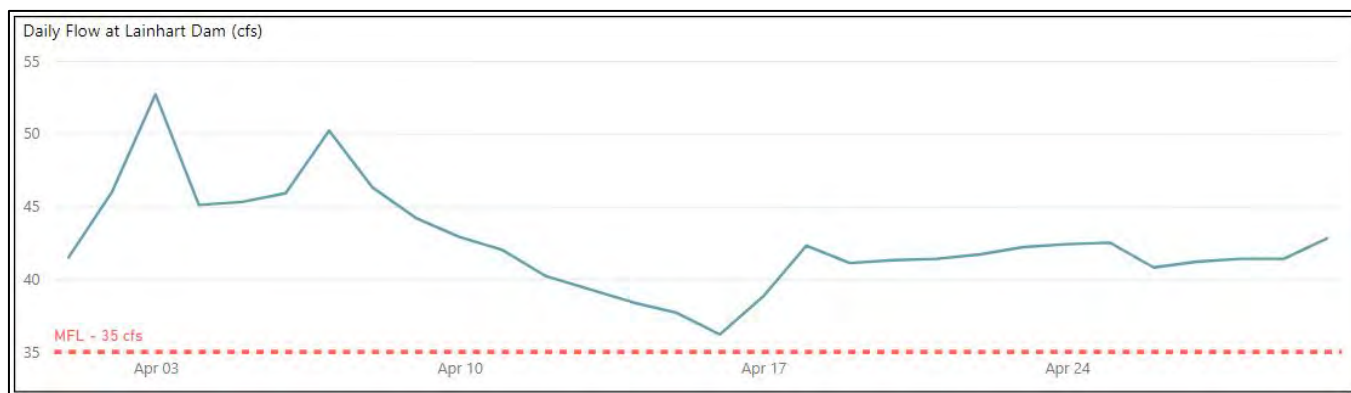


Rainfall distribution across the watershed using NEXRAD data. Each pixel represents an area of 2 km x 2 km. Blue colored pixels show highest rainfall and red pixels show lowest rainfall.

The spatial distribution of rainfall across the watershed ranged from just 1.3" of rain to a maximum of 8.4" (Figure left). Regions that experienced the highest rainfall were mostly along the coastal regions, especially toward the south, and included Juno, Abacoa, and portions of urbanized Jupiter located just south of the Loxahatchee River estuary. The driest regions tended to be to the west covering much of J.W. Corbett Wildlife Management Area and portions of the Acreage community.

Despite a slightly more rainfall over the previous month, river flows measured at Lainhart Dam decreased During April but remained above the 35 cfs

Minimum Flow and Level (MFL) target with an average flow of 43 cfs and ranged between 36 to 53 cfs (figure below). This contrasts to the flow in March, which had a higher daily average of 55 cfs and range from 45 to 94 cfs. It appears these flows were due, in part, to supplemental flows released from Grassy Waters Preserve through the G-161 structure starting April 19 and continued for the remainder of the month at an average daily flow of 17 cfs. As of this writing flows have decreased substantially in May. We will continue to closely monitor flow and salinity conditions that are updated each day on our website [HERE](#).



River flows measured at Lainhart Dam April 2022 indicating overall low flows as we progress into the dry season, and relative to the 35 cfs flow target for the Minimum Flow and Level (MFL).

## Wastewater Surveillance of COVID-19

The wastewater surveillance monitoring for April shows that SARS/COVID-19 is still very prominent in our community. The two samples collected on April (April 4 and 18) showed increases in virus concentration, with the sample on May 2<sup>nd</sup> showing a slower increase over the sample two weeks prior, but still breaking through a million virus copies per liter for the second time since 2020. Our next sampling will occur May 16 and we should have results prior to our meeting. Biobot is now reporting weekly national and regional consolidated analysis summaries of their customer's results that are participating in the Biobot reporting network. See the results [HERE](#).

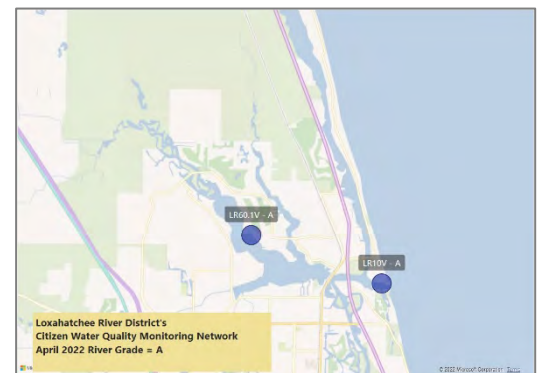


## Seagrass Monitoring

Bimonthly seagrass monitoring for 2022 monitoring season has commenced. Early findings are encouraging as the upward trend in seagrass presence we saw last year may be continuing. The Inlet site, the most downstream site along the salinity gradient, and the site considered to experience the most stable conditions, had a total seagrass occurrence of 72.3% which is right on the long term average of 73.1% and slightly higher than the 68.3% typically observed in April. North Bay, Sand Bar, and Pennock Point sites all experienced overall increases in percent occurrence for April compared to the previous year. North Bay had a total seagrass average percent occurrence of 58.1%, matching the highest percent occurrence during 2021 (August) and substantially higher than the 39.0% from April of 2021. The Sand Bar site had a total seagrass average percent occurrence of 83.4%; much higher than 2021's highest percent occurrence of 67.8% (October) and much higher than the 30.6% seen during April of 2021 and continuing the increasing trend. At Pennock Point there was a substantial increase in seagrass percent occurrence in April when compared to 2021, with total seagrass percent occurrence of 7.8%. While far below the 49% historical average for April, it is much higher than the 1.0% seen during April 2021. Curiously, at the Northwest Fork site, which has experienced near complete loss of seagrass in recent years, a single sample point containing a runner of "paddle grass" (*Halophila decipiens*) was recorded. While this species, a close relative of Johnson's seagrass, has been increasingly present across the estuary, this is the first record of this species at the Northwest Fork site. Its relative, Johnson's seagrass, was once abundant at this site.

## Volunteer Water Quality

The overall Volunteer Water Quality grade for April 2022 was a perfect "A", with all parameters showing excellent water quality.



Site	Averaged results for the Month							Monthly Cumulative Grades						Cumul. Monthly	
	Temp (F)	Secchi	Salinity	pH	DO	DO%	Color	Vis	Salt	pH	DO	DO%	Color	Score	Grade
LR10V	24.1	4.00	33.8	8.1	6.7	96.4	1.0	A	A	A	A	A	A	100.0	A
LR60.1V	23.0	0.70	30.0	8.1	6.4	87.9	1.0	VAB	A	A	A	A	A	100.0	A
Average	23.6													100.0	A

VAB (Visible at Bottom)

DO (Dissolved Oxygen)

ND (No Data)



## Customer Service

### **Payment Processing**

Distribution of the 2<sup>nd</sup> Quarter billing began on April 15. Our two new staff members are getting settled and gained experience as they helped process over 10,000 payments totalling over \$1.3M from our quick paying customers. Q2 Bills are due May 18.

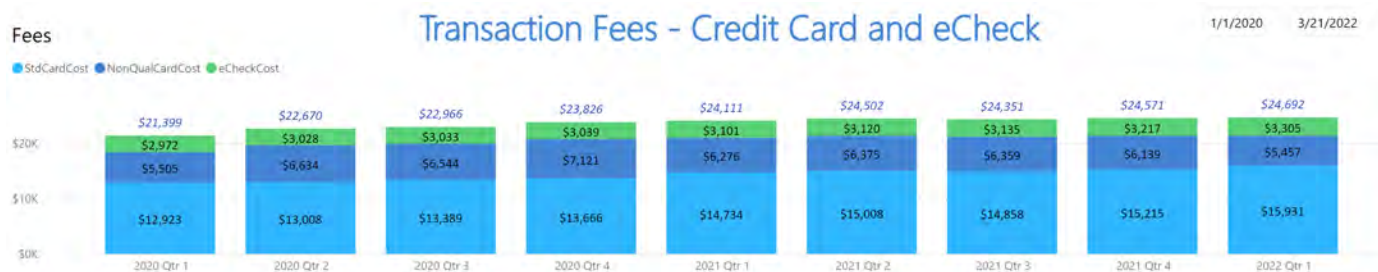
### **Check Scanning and Online Bill Pay Solution**

As part of our ongoing process improvements, we are implementing a new check scanning and online bill pay solution. This new process will utilize a specialized scanner to capture key information from our customer's payment checks and bill coupons, rather than manually entering payment data as we have done in the past. The system will also digitally capture and validate the payments made by customers using their bank's online bill pay service, rather than utilizing our in-house system. Following verification by our staff, the system creates two data files – first, a digital data file and scans of checks for the bank deposit, and second, a data file of payment information for our customer information and billing system. Collectively, this system will allow us to process our paper check payments (our most time-consuming payment processing) and our online bill pay payments much more efficiently and thoroughly than our current workflows.

### **Customer Information & Billing Solution**

We continue to make slow and steady progress on the implementation of our new Customer Information and Billing System with Edmunds Gov Tech. We have had several productive data discovery meetings to help the programmers understand our data and workflow needs. One Edmunds developer commented that we are unusual and complicated in how we have our data in a variety of different systems, but we know our data and storage better than any customer they have worked with. As the Edmunds programmers wrap up implementations with other customers, they will continue to make gradual progress on our implementation.

The Edmunds Team has explained that now is a good time to reassess our transaction fee model. We are unusual in that we absorb, or do not charge a transaction fee for credit card payments. Most other government entities provide eCheck transactions at not cost but charge a transaction fee (typically 2.8 to 3%) for credit/debit card transactions. Presently, our credit card transactions are approximately 60% of our nearly \$100,000 in transaction fees (figure next page). It will be interesting to monitor how these fees change under our new, lower fees (for cards) with Edmunds. We are projecting a cost savings of approximately 8% or (\$9,000). If the Board would like to re-evaluate our absorbed transaction fees, now is the time.



Quarterly credit/debit card and eCheck transaction fees from Q1 2020 through Q1 2022. Standard cards are shown in light blue, non-qualified/commercial cards in dark blue and eCheck in green. The total quarterly fees is shown above each bar. These transaction fees are presently absorbed by the District and the pricing structure will change with our switch to Edmunds Gov Tech.

## Information Technology (IT)

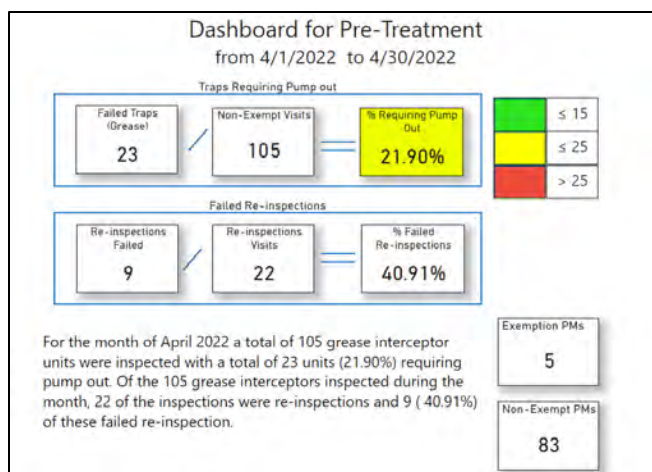
### Pre-Treatment Reporting

In March, we reported that the IT team worked with the Operations team to improve the pre-treatment process workflow for data collection and management. As a result of the careful work to improve the workflow, new reporting tools were created to summarize and visualize the data.

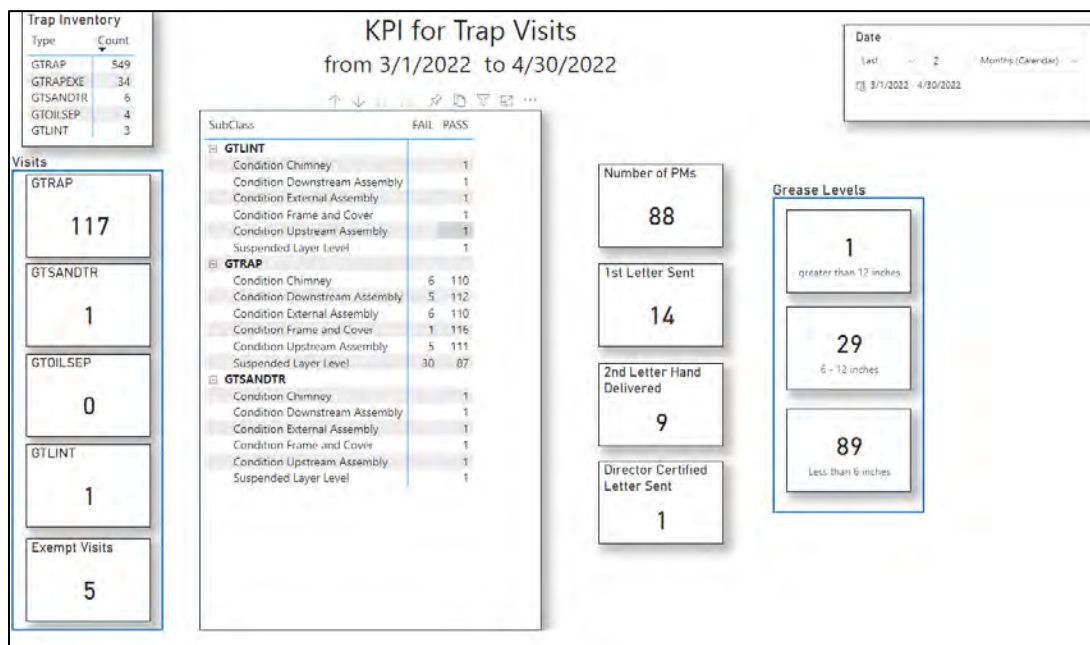
The Operations Team presented a concise blueprint for required reports so we could create the reports in Microsoft Power BI (examples below).

- Dashboard page for reporting the relevant executive dashboard numbers.
- KPI page for providing summary of data
- Letter Management page for managing the required follow-up correspondence related to re-inspections.
- Data Exploration page to view detailed information from inspections.

These new tools will provide meaningful efficiency and clarity improvements to staff.



Dashboard page for Pre-Treatment



KPI page for summary of data

### Letters for Failed Grease Traps from 1/13/2022 to 5/12/2022

Asset: All

Location: All

Activity	OPS-RINSP-GT-1	OPS-RINSP-GT-2	OPS-RINSP-GT-3
Parent WO	WO#	Letter Date	Letter Date
1140948	1736689	3/30/2022	
1676137	1736102	2/4/2022	
1677387	1736127	2/3/2022	
1680711	1736049	2/4/2022	1736631 4/15/2022

Grease Trap Letter Management

# Loxahatchee River Environmental Center

May 2022

## River Center Summary Statistics



## LRD'S ENVIRONMENTAL STEWARDSHIP DASHBOARD



		Environmental Stewardship Impact [% ES Impact = (Total Visitors x ES Index)/Monthly Target]	Environmental Stewardship Index	Total Visitors (incl. Visitors, Field Trips, Onsite Programs)	Average Program Participation [Actual participants/Capacity of Program]	Volunteer Engagement	1st Time Visitors	Visitor Satisfaction	Staff Overall Program Assessment	Expenses	Program Revenue
Benchmark / Customer Expectation		% of Target	Monthly Average [Max Rating is 9]	% of Target	% of Capacity	% of Target	% of Target	Rating Average [Max Rating is 5]	Rating Average [Max Rating is 9]	% within budget	% of Target
Blue Level		≥ 110%	≥8	≥ 110%	≥ 95%						
Green Level		≥ 90%	≥7	≥ 90%	≥ 75%	≥ 90%	≥ 90%	≥4	≥7	≥ 85% but ≤ 105%	≥ 90%
Yellow		≥ 75%	≥5	≥ 75%	≥ 50%	≥ 75%	≥ 75%	≥3	≥5	≥ 80%	≥ 75%
Red		<75%	<5	<75%	<50%	<75%	<75%	<3	<5	< 80% or > 105%	<75%
2019 Baseline		134%	7.3	44%	83%	121%	124%	4.7	7.8	97%	128%
2020 Baseline		62%	7.6	28%	50%	70%	65%	4.6	7.8	81%	103%
2021 Baseline		188%	8.1	112%	83%	102%	275%	4.7	7.8	92%	85%
2021	Apr	166%	8.6	134%	83%	123%	320%	4.8	7.7	84%	89%
	May	135%	8.0	92%	84%	112%	270%	4.4	7.9	89%	72%
	June	312%	8.1	142%	106%	115%	328%	4.6	8.0	96%	51%
	July	371%	8.1	205%	87%	154%	579%	4.5	8.1	115%	49%
	Aug	355%	8.1	160%	85%	175%	330%	4.7	8.0	107%	86%
	Sept	237%	7.6	192%	85%	66%	519%	4.6	7.8	91%	83%
	Oct	63%	7.8	77%	81%	92%	155%	5.0	7.8	104%	90%
	Nov	76%	8.0	75%	87%	112%	156%	4.9	7.9	89%	101%
	Dec	74%	8.1	67%	86%	63%	193%	4.9	7.6	95%	120%
	2022 Jan	44%	8.4	65%	73%	65%	236%	4.9	7.6	98%	111%
2022	Feb	45%	7.8	79%	90%	109%	235%	4.5	8.1	99%	98%
	Mar	82%	8.2	91%	90%	96%	110%	4.7	8.2	103%	103%
	Apr	82%	8.6	104%	75%	136%	173%	4.9	7.9	97%	87%
	Consecutive Months at Green	0	13	2	0	3	13	13	13	8	0
Metric Owner		O'Neill	O'Neill	O'Neill	Harris / Duggan	Miller	O'Neill	O'Neill	O'Neill	O'Neill	O'Neill

Metric	Explanation
Environmental Stewardship Impact	Our scheduled field trips are still small and not as often as they were pre-COVID. Our regular visitation through the door is still climbing and we expect to see a spike in June when school is out.
Average Program Participation	We are experiencing more no-shows with programs like Blooming in the Garden (19 no-shows), and some programs that did not fill to 100% (Jr. Aquarist Homeschool Program).
Program Revenue	We usually experience in a dip in paid programs before summer starts. We should see this number near normal levels in June.

## River Center General

Samantha Warwick has been promoted to Environmental Educator II! Congratulations!

Upcoming Summer Programs – We currently have 24 visiting camps (707 total campers) scheduled to visit us this summer. In 2019, we had 59 groups scheduled over the summer, so currently we are at less than 50% of where we were pre-COVID. We hope to have more camp groups schedule in the next month as they finalize their summer schedules.

## Special Programs

### Fish Like a Girl [Saturday, April 2<sup>nd</sup>]

On Saturday, April 2<sup>nd</sup>, the River Center hosted our “Fish Like a Girl” workshop for Junior and Cadette Girl Scouts. With the help of our educators and volunteers we provided a morning filled with Fishing 101. From knot tying, de-hooking, fish morphology, habitats, to casting practice, all topics were covered to prepare the girls for fishing. After the morning activities, the girls finally got to test their newly acquired knowledge and went fishing. Today we fished like girls!



### Jr. Aquarist Homeschool Series [Wednesday, April 6<sup>th</sup>, April 13<sup>th</sup>, April 20<sup>th</sup>, & April 27<sup>th</sup>]

Back by popular demand and a successful fall series, the River Center started the Jr. Aquarist Homeschool Series this month. In April, we completed the remaining four programs out of the six programs for our students ages 11-16. On April 6<sup>th</sup> we conducted a kayak trip through the Intracoastal for students to get an up-close look at our local estuary habitat. Along the way, students observed mangroves, pelicans, shore birds and we even found 9-arm sea stars.



On April 13<sup>th</sup>, we visited Blowing Rocks preserve for a seining and dip netting experience. The day was filled with animal collection, including variegated sea urchins, Florida fighting conchs, and a trunkfish. Students also learned about food chains, and the Jupiter Aquatic Preserve’s unique and special ecosystems.

On April 20<sup>th</sup>, students conducted a fish dissection on Mayan cichlids. Students received hands-on experience with understanding the anatomy, characteristics, and adaptations of these freshwater fish.

For our last class on April 27<sup>th</sup>, students learned the importance of proper care of aquarium animals. This workshop included fish food preparation and feeding as well as reptile training and care.





### Jupiter U [April 7<sup>th</sup> – April 8<sup>th</sup>]

As part of the Town of Jupiter's "Jupiter U" program series, twenty-one Jupiter residents enjoyed a day of immersion into the Loxahatchee River at the River Center April 7<sup>th</sup>-8<sup>th</sup>. Jupiter U provides the opportunity for residents to learn about life and government in Jupiter. Thursday, April 7<sup>th</sup>, twenty participants took a tour of the Loxahatchee River District's wastewater treatment plant site with River Center staff, learning the different stages of wastewater treatment. They finished out the tour with a



water chemistry / quality demonstration in the Operations classroom. On the morning of April 8<sup>th</sup>, River Center staff provided a detailed tour of the River Center and a hands-on activity titled "Ocean Currents and Plastic Voyagers." This program is in conjunction with the PURE Jupiter Campaign to educate residents about single-use plastics, marine debris, and what everyone can do to help with overall plastic reduction. Later that day, River Center Staff led a kayak tour around Burt Reynolds Park with fourteen participants exploring the waters of the lagoon and visiting



Fullerton Island to view the mangrove restoration project, highlighting the importance of mangroves in our area.

### Wild and Scenic Film Festival [Saturday, April 9<sup>th</sup>]

On April 9<sup>th</sup>, River Center staff was invited to participate in the Jupiter Inlet Lighthouse and Museum's annual Wild and Scenic Film Festival. A composition of short films was presented to a crowd of over three hundred like-minded environmental enthusiasts. One highlight from the night was the film "Hidden Wild" which was filmed here in Palm beach County and featured our partners from Palm Beach County's Department of Environmental Resource Management. The River Center was present to distribute information about the center and our upcoming events. It was a beautiful night for a film festival at the Jupiter Inlet Lighthouse.



### Science with Sam [Wednesdays, 4/13, 4/20, and 4/27]

In April, Science with Sam taught three classes Chemical Reactions, Earth Day, and Pollinator Protectors. In the Chemical Reactions class, students learned the difference between a physical and chemical reaction, tested experiments at their table, and watched instructor demonstrations of experiments. Each student created a lava lamp, invisible ink, and elephant toothpaste while learning basic scientific method.







During the Earth Day lesson students learned why earth is a special planet that has life, current issues the earth is facing with discussions on how we can help, how long certain trash items take to breakdown, and new ways we can reduce, reuse, recycle, and rethink. Students learned how runoff can gather many pollutants in bodies of water by conducting a watershed experiment. The class ended with students walking through the River Center garden on a nature scavenger hunt.

In our Pollinator Protectors class students learned why pollinators are important to us, what kinds of animals can be pollinators, and how we can protect them. After playing a game of match-the-pollinator, students walked through the River Center garden looking for pollinators and learning ways to encourage pollinators in their backyard such as planting native plants and creating homes for pollinators like the Mason Bee. The class ended playing a game of nectar relay, students acting as pollinators collecting nectar in pipettes in a race against the end of spring.



#### **LRD Connections:**

- **Solid Waste** – *Reducing our trash so that it does not end up in our waterways is important for aquatic life and surrounding wildlife.*
- **Wastewater** – *Recycling wastewater prevents pollutants from entering our river and is a resource that we can share with wildlife.*
- **Water Supply** – *Students learned about water conservation efforts including planting native plants, right plant/right place, proper watering practices and proper disposal of chemicals and potential pollutants.*

#### **Homeschool Workshop: Birds of Prey [Thursday, April 14th]**

The River Center hosted a Homeschool Workshop for students ages 7-10. This class was all about birds of prey, specifically ospreys. Students learned about characteristics of predatory birds, their specific adaptations, and why the osprey are so unique. Students then played our “Oh Osprey” game, in which each child was an osprey hunting for food. But not every fish caught was a good one. This game is great at demonstrating the struggles and hardships ospreys and other animals face living out in the wild.



#### **Florida Atlantic University Kayak Trip [Saturday, April 16<sup>th</sup>]**

The River Center hosted a group of Master’s Degree students seeking a degree in Environmental Education. Sara took the group on a guided kayak tour of the Intracoastal to Fullerton Island and Sawfish Bay. Along the way we saw a mated pair of ospreys, brown pelicans, and great blue herons. After lunch, Jocelyn led the group on a short tour of the center and provided insight into working in the environmental education field.

#### **Earth Day at Pratt & Whitney [Thursday, April 21<sup>st</sup>]**

On Thursday, April 21<sup>st</sup> the River Center participated in the Earth Day Celebration at Pratt & Whitney. This event, held in the Café, brought out organizations from the Lake Worth Lagoon

and Palm Beach County Environmental Resource management to promote and celebrate the environment. It was great to be able to reach a different type of audience and to interact with people in different industries. It was a unique and exciting outreach and the River Center looks forward to attending this event again in the future.

### **Nature Hike- Pal Mar/ 9 Gems [Friday, April 22<sup>nd</sup>]**



The River Center team facilitated an afternoon nature hike to Pal Mar East Natural Area Friday, April 22<sup>nd</sup>. This 3,200-acre natural area is a part of a roughly 125,000-acre greenway system that extends all the way from the intracoastal waterway to Lake Okeechobee. The property includes a wide variety of habitats including pine flatwoods, freshwater depression marshes, wet prairie and cypress sloughs. Furthermore, the property is a part of the headwaters of Cypress Creek, one of the most important tributaries to the Loxahatchee River. Along the hike participants saw native plants including sneezeweed, st. johns wort, sundew, and carolina willow and also saw native wildlife such as black crowned night herons, six-lined racerunner lizard, and black racer snakes.

### **Blooming in the Garden [Saturday, April 23<sup>rd</sup>]**

On April 23<sup>rd</sup>, the River Center hosted a Blooming in the Garden program for families with early learners. The theme this month was *Snails on Parade* which included a snail themed craft. Families got the opportunity to explore the River Center's migratory bird garden. They learned how to find our elusive garden snails and the different variety of snails that are found throughout the world.



### **Volunteer of the Month**

Larry Altman is our April 2022 Volunteer of the Month. Larry is an animal care volunteer, helping to feed the River Center's aquariums. He is pictured here with his buddy Igor. Larry target feeds (by hand) Igor every time he is here. He came with previous experience as a zoo volunteer in Pennsylvania. Larry retired 7 years ago from his marketing business in Philadelphia allowing him and his wife to become snowbirds wintering in Jupiter. Like clockwork, every Thursday Larry rides



his bike to the River Center and is ready to go. Larry is non-stop from the time he walks into the Center, willing to help wherever needed. His quick wit and fantastic sense of humor allows for a fun and laid-back environment, making visitors feel at home. When Larry is not volunteering at the River Center you can find him exercising, playing tennis, cooking, and reading. Larry has been with the River Center since December 2019. He has currently donated over 150 hours of service. Larry is dedicated to volunteerism and the attitude of giving back and being part of a community. Larry is a seasonal volunteer and has headed back up north. We will see you next fall!

# Upcoming River Center Events

RSVP at [www.lrdrivercenter.org/events-calendar](http://www.lrdrivercenter.org/events-calendar)  
[rivercenter@lrecd.org](mailto:rivercenter@lrecd.org) or 561-743-7123

**Every Thursday, 9:30 a.m. – 10 a.m. – Story time:** Join the River Center outside in the Chiki hut for Story Time. Families are welcome as we read stories and have an animal encounter.

**May 14, 8 a.m. – 4 p.m.: Boating Safely Class:** The River Center continues to collaborate with the US Coast Guard Auxiliary “Flotilla 52” to provide a series of Boating Safely Classes targeted specifically to young boaters in our community. These classes are provided through a generous sponsorship by the AustinBlu Foundation, a not-for-profit dedicated to raising awareness and promoting educational programs to improve boater safety. Recommended for children 12 years and up.

**May 17 – Loxahatchee River – Wild & Scenic Designation Anniversary (37 years)**

**May 28 – Summer Season Begins**

## SUMMER SEASON

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**June 1, 12 – 2 p.m.: Family Boat Tour – Sandbar and Seashells:** Join the River Center for an exciting family-friendly boat tour! Hop on-board the Osprey for a trip up the Central embayment of the Loxahatchee River. Hunt for shells and creatures at the sandbar and soak up some sunshine! Make sure to bring water, snacks, water shoes, and snorkel gear! The boat will launch from Burt Reynold's Park. Registration is required to attend. Space is Limited!

**June 11, 10 a.m. – 12 p.m.: Seine & Dip Estuary Exploration – Blowing Rocks Preserve:** Join the River Center in a day of estuary exploration at our Family Seine and Dip Netting Experience at Blowing Rocks Preserve! Activities will include exploring our local waterways through dip netting and seining. Guests are welcome to bring their own buckets and dip nets. Please make sure to bring sunscreen, water shoes, and plenty of water!

**June 18, 7 a.m. – 8 p.m.: AustinBlu Land and Sea Fishing Tournament:** Calling all anglers! Join the River Center and the AustinBlu Foundation for the annual AustinBlu Fishing tournament on Saturday, June 18th. This family-friendly tournament aims to support the education and outreach efforts of the foundation, which is dedicated to teaching people about the importance of safety on the water. This unique tournament will showcase not just one competition, but two! Anglers will have the option to compete in our Release Competition and/or the Harvest Competition. In the Release Competition, anglers will receive points for the number/species of fish caught, photographed, and released. In the Harvest Competition, anglers will compete to catch the heaviest fish out of these 4 categories:

- Sheepshead
- Snapper (any species)
- Crevalle Jack
- Grunts (any species)

Fishing will commence at 7:00 am and with lines out of the water at 3:00 p.m. Anglers will have until 4:00 pm to submit and weigh their catches. The tournament celebration will begin at 5:00 pm. Participants can enjoy food and beverages from local eateries Food Shack and Pop Shack. Winners will be announced at 7:00 p.m. Do not miss out on this great opportunity to support a wonderful cause!

**June 22, 12 p.m. – 2 p.m.: Family Boat Tour – Sandbar & Seashells:** Join the River Center for an exciting family-friendly boat tour! Hop on-board the Osprey for a trip up the Central embayment of the Loxahatchee River. Hunt for shells and creatures at the sandbar and soak up some sunshine! Make



sure to bring water, snacks, water shoes, and snorkel gear! The boat will launch from Burt Reynold's Park. Registration is required to attend. Space is Limited!

**June 24, 6 – 8 p.m.: Jr. Angler Captain's Meeting:** Parents and kids can come by to pick up their lanyards and bracelets and review the rules of the 5-week tournament.

**June 25, Jr. Angler Fishing Tournament starts!**

**June 25, 10 – 11:30 a.m.: Blooming in the Garden:** Join the River Center for our Blooming in the Garden program, designed for children ages 3-6. The program will start at 10:00am at the River Center Fire Pit with a story time and a garden themed craft. We will then move to our garden for a garden themed hands-on activity. When it is time to go home, children will receive seeds to take home to start their own garden! So do not miss this exciting opportunity for your little ones to enjoy nature!

**July 2, 9 a.m. – 12 p.m.: Fishing Clinic:** Don't miss out on this exciting fishing opportunity with the River Center. Fishing clinics are a great way for kids to learn the basics of fishing methods and tactics! Make sure to join us for an engaging overview that includes knot tying, fish identification, and of course fishing! Parents are encouraged to accompany their kids and participate in the clinic. The cost is \$10 per child. Interested participants should bring water, sunscreen, a hat, and sunglasses.

**July 5, 10:30 – 11:30 a.m. and 2 – 3 p.m.: Reptiles of the Loxahatchee Family Field Trip**

**July 6, 10 a.m. – 1 p.m.: STEM Science Day**

**July 7, 10 a.m. – 1 p.m.: Craft-a-Palooza:** LET'S GET CRAFTY! Join us in the River Center classroom for some FREE arts and crafts, games, activities, music, and fun. This is a free event, and no RSVP is required to attend or participate. Our crafts are designed for children ages 3-10. Make sure you do not miss out on this exciting event! No registration required.

**July 8, 9:30 a.m. – 12 p.m.: Kayaking 101:** Join the River Center for our Intro to Kayaking: Kayak 101 workshops! Participants in these workshops will learn basic kayak strokes, safety tips and how to be a proficient paddler on the water. This course will be conducted by a Level 2 Kayak instructor and all equipment will be provided. Registered participants need to bring water, water shoes, and comfortable clothing that can get wet. Registration is required to attend. Space is limited.

**July 8, 6 – 7 p.m.: Science with Sam – Family Fun:** Topic TBD

**July 9, 10 a.m. – 12 p.m.: Seine & Dip Estuary Exploration – Blowing Rocks Preserve:** Join the River Center in a day of estuary exploration at our Family Seine and Dip Netting Experience at Blowing Rocks Preserve! Activities will include exploring our local waterways through dip netting and seining. Guests are welcome to bring their own buckets and dip nets. Please make sure to bring sunscreen, water shoes, and plenty of water!

**July 15, 6 – 7 p.m.: Science with Sam – Family Fun:** Topic TBD

**July 22, 6 – 7 p.m.: Science with Sam – Family Fun:** Topic TBD

**July 23, 10 – 11:30 a.m.: Blooming in the Garden:** Join the River Center for our Blooming in the Garden program, designed for children ages 3-6. The program will start at 10:00am at the River Center Fire Pit with a story time and a garden themed craft. We will then move to our garden for a garden themed hands-on activity. When it is time to go home, children will receive seeds to take home to start their own garden! So do not miss this exciting opportunity for your little ones to enjoy nature!

**July 27, 10 a.m. – 12 p.m.: Family Boat Tour – Sandbar & Seashells:** Join the River Center for an exciting family-friendly boat tour! Hop on-board the Osprey for a trip up the Central embayment of the Loxahatchee River. Hunt for shells and creatures at the sandbar and soak up some sunshine! Make sure to bring water, snacks, water shoes, and snorkel gear! The boat will launch from Burt Reynold's Park. Registration is required to attend. Space is Limited!

**July 29, 9:30 a.m. – 12 p.m.: Kayaking 101:** Join the River Center for our Intro to Kayaking: Kayak 101 workshops! Participants in these workshops will learn basic kayak strokes, safety tips and how to be a proficient paddler on the water. This course will be conducted by a Level 2 Kayak instructor and all equipment will be provided. Registered participants need to bring water, water shoes, and comfortable clothing that can get wet. Registration is required to attend. Space is limited.

**July 30, 9 a.m. – 12 p.m.: Fishing Clinic:** Don't miss out on this exciting fishing opportunity with the River Center. Fishing clinics are a great way for kids to learn the basics of fishing methods and tactics! Make sure to join us for an engaging overview that includes knot tying, fish identification, and of course fishing! Parents are encouraged to accompany their kids and participate in the clinic. The cost is \$10 per child. Interested participants should bring water, sunscreen, a hat, and sunglasses.

**August 4, 10 a.m. – 12 p.m.: Kayak Tour – Loxahatchee Slough:** Be adventurous and join the River Center for a paddle through the marshes and swamps at the Loxahatchee Slough Natural Area.

**August 5, 6 – 8 p.m.: Jr. Angler Fish Fry & Awards Ceremony:**

**August 6, 10 a.m. – 12 p.m.: Seine & Dip Estuary Exploration – Blowing Rocks Preserve:** Join the River Center in a day of estuary exploration at our Family Seine and Dip Netting Experience at Blowing Rocks Preserve! Activities will include exploring our local waterways through dip netting and seining. Guests are welcome to bring their own buckets and dip nets. Please make sure to bring sunscreen, water shoes, and plenty of water!



# LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

[loxahatcheeriver.org](http://loxahatcheeriver.org)

## MEMORANDUM

**To:** D. Albrey Arrington, Ph.D., Executive Director  
**From:** Ed Horchar Safety Officer  
**Date:** May 12, 2022  
**Subject:** District Safety Report for April 2022

### Safety Metrics: April 2022

OSHA recordable injuries: Zero

Lost time injuries: Zero

Actual TRIR: 2.6 [Goal < 2.2]

TRIR = Total Recordable Incident Rate

### Safety is a Core Value at LRD – Our

*conduct is shaped by a personal commitment to protect the health and safety of ourselves and our colleagues. Safety is driven through education, training, planning, protective equipment, and individual accountability.*

### **OSHA Recordable Incidents/MVA's:**

The LRD has now experienced zero OSHA Recordable Injuries and zero Motor Vehicle Accidents (MVA) for five consecutive months. With two recordable injuries in the last 12 months, we have sustained a Total Recordable Incident Rate (TRIR) of 2.6, above our goal of 2.2. As we enter May and continue with the injury free trend, the injury rate will be reduced to a rate shared as the lowest in recent history. Of course, the District goal is to reach a rate of zero, which is certainly achievable. The District best for consecutive months with no recordable injuries is 8.

With a total of three MVAs in the last 12 months, the MVA incident rate is at 3.3. Above the LRD MVA goal of 2.2.

### **Sustainment:**

Job Hazard Assessment (JHA) activity continues to look favourable. The District experienced another record high volume of completed JHA's in April with an astounding 44% increase from March's volume. Reuse and Collections performance continued to be reliable posting favourable results. The real push for the increase was realized in the Operations, Construction and Maintenance organizations which combined to increase JHA output by a total of 236 for the month of April. The following is a comparison of April JHA's performed per employee in each participating department:

Reuse:	34 JHA's / employee	Construction:	14 JHA's / employee
Collections:	25 JHA's / employee	Inspection:	5 JHA's / employee
Operations:	18 JHA's / employee	Wild Pine Lab	2 JHA's / employee
Maintenance:	15 JHA's / employee		

James D. Snyder  
CHAIRMAN

Gordon M. Boggie  
BOARD MEMBER

Stephen B. Rockoff  
BOARD MEMBER

Dr. Matt H. Rostock  
BOARD MEMBER



April's 44% increase resulted in a total submittal of 688 completed JHA's. An increase of 212 for the month. This effort by the participating District employees exemplifies the dedication for keeping each other safe.

A mandatory Near Miss video training was deployed to all District employees on April 25 and was narrated by Albrey Arrington. The expectation was to increase the volume of Near Miss reports submitted. This training assisted in an increase of 6 near miss reports for April, compared to March, for a total of 9 submittals. The largest submittal of Near Miss reports the District has realized. The Near Miss reports have been integrated into the EAM work order system for the Near Miss assessment, tracking of corrective actions and integration with Power BI.

### **Training:**

Computer based Safety training has increased in April. New hires receive mandatory training which is regulatory and policy driven. Existing District employees are starting to receive similar regulated training which is required annually. An example of the training is Bloodborne Pathogen, PPE, Hazard Communication, Lockout / Tagout Affected, and Confined Space. The training will continue throughout the year. Classroom training is being conducted by the Safety Officer for all employees involved in Confined Space Entry, Lockout / Tagout Authorized, and Fall Protection.

As part of the District Six Sigma Training, a team focusing on "Training Improvement" is in the process of developing a training management system for the District. This will include all training, including safety related training, and involve identifying training required specific for employee skills and tasks, as well as regulatory, policy driven and best management practices.

Workplace inspections were sustained in April. Many different District jobs were observed including chlorine scrubber maintenance, Lift Station Inspections, mule maintenance, Lab Operations, and River Center facility inspection including AED/first aid kit.

Hurricane preparedness and planning had begun with Hurricane Plan updates, and training exercises planned for completion in May.

As indicated, the District employees have embraced the tools provided to create a safe work environment. This is evident by the continued support of a strong JHA program and an increasing interest in identifying Near Miss incidents. This adds up to 5 consecutive months of injury free work. I am confident we will continue on this path to zero injuries and motor vehicle incidents, and look forward to providing the support necessary to enhance the employee safety and reach 6 months of injury free work.

**Stay Alert – Don't Get Hurt**



# LOXAHATCHEE RIVER DISTRICT

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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

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## MEMORANDUM

**TO:** Governing Board  
**FROM:** Administration Staff  
**DATE:** May 13, 2022  
**SUBJECT:** Consultant Payments

The following amounts have been reviewed and approved for payment to our consultants for work performed during the prior month.

Consultant	Prior Month	Fiscal YTD
Shenkman	\$ 4,200.00	\$ 47,255.00
Baxter & Woodman	\$ 4,286.61	\$ 57,477.22
Carollo	\$ 19,981.05	\$ 109,193.52
Chen Moore	\$ 6,059.30	\$ 36,570.70
Holtz	\$ 21,742.89	\$ 179,352.13
KCI	\$ 6,203.29	\$ 44,630.77
Mock, Roos & Associates	—	\$ 64,108.00

Should you have any questions regarding these items, please contact Kara Fraraccio concerning the attorney's invoice, and Kris Dean concerning the engineers' invoices.

**James D. Snyder**  
CHAIRMAN

**Gordon M. Boggie**  
BOARD MEMBER

**Stephen B. Rockoff**  
BOARD MEMBER

**Dr. Matt H. Rostock**  
BOARD MEMBER



# Future Business

## General:

- 20 Acre Site Plan Update
- FY2024 Budget

## Future Contracts:

- Alternate A1A Sub-aqueous Force Main – Engineering Services Contract

## Potential Workshops:

- 2500 Jupiter Park Dr Site Plan
- 20 Acres Site Plan

