

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

### AGENDA REGULAR MEETING #08-2022 JUNE 16, 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 9
  - B. Loxahatchee River District Dashboard Page 10
- 5. Consent Agenda (see next page) Page 11
- 6. Regular Agenda
  - A. Consent Agenda Items Pulled for Discussion
  - B. Loxahatchee River/Alternate A1A Sub-aqueous Force Main - Engineering Services Contract Page 25
  - C. Conceptual Site Plan for 20 Acres Page 36
- 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: June 6, 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 Monitoring Policy to approve revisions Page 12
- B. Sewer Backup Policy to approve policy Page 17
- C. Retirement Plan Investment Policy to approve a revision Page 20
- D. Fixed Asset Disposal to approve disposal Page 21
- E. Change Order to approve change order Page 22

### 7. REPORTS

- A. Neighborhood Sewering Page 63
- B. Legal Counsel's Report Page 65
- C. Engineer's Report Page 68
- D. Busch Wildlife Sanctuary Page 73
- E. Director's Report Page 74



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### MEMORANDUM

- TO: Governing Board
- FROM: Recording Secretary
- DATE: June 10, 2022
- RE: Approval of Meeting Minutes

Attached herewith are the minutes of the Regular Meeting of May 19, 2022. As such, the following motion is presented for your consideration:

### "THAT THE GOVERNING BOARD approve the minutes of the May 19, 2022 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: #07-2022

### LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT REGULAR MEETING - MINUTES MAY 19, 2022

### 1. CALL TO ORDER

Chairman Snyder called the Regular Meeting of May 19, 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 Mr. Snyder Mr. Boggie

Staff Members in attendance were Dr. Arrington, Mr. Dean, Mr. Howard, Ms. Fraraccio, Mr. Pugsley, Ms. Marshall and Mr. Jarvis (via GotoWebinar)

Consultants in attendance were Mr. Curtis Shenkman and Mr. Hunter Shenkman from Shenkman Law, P.A., Suzanne Dombrowski, Chen Moore and Associates, Sam Ferrari and David Wallace, PGAL Architects, Lisa Wynn, Busch Wildlife, Kristen Nguyen, Baxter& Woodman (via GotoWebinar) and Kaitlin Wood, Holtz Consulting (via GotoWebinar).

### **B. PREVIOUS MEETING MINUTES**

"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."

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

C. ADDITIONS & DELETIONS TO THE AGENDA

### 3. COMMENTS FROM THE PUBLIC

No comments from the public were received.

LRD MINUTES PAGE 2 MAY 19, 2022

### 4. STATUS UPDATES

### A. LOXAHATCHEE WATERSHED STATUS

Mr. Pugsley presented on the Plant Process Upset

### B. LOXAHATCHEE RIVER DISTRICT DASHBOARD

Dr. Arrington reviewed the District Dashboard.

5. CONSENT AGENDA

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

"THAT THE GOVERNING BOARD approve the Consent Agenda of May 19, 2022 with the exception of items A and B."

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

C. Lift Station 160 and 296 Emergency Generator and ATS Installations - to approve contract

"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."

D. Clarifier # 3 Rehabilitation – to approve construction contract

"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."

E. 18150 SE Woodbridge Lane Notice of Intent to Assess (Res. 2022-05)

"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."

F. Odor Control (Evoqua) – to approve contract extension

"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 Notto-Exceed \$170,000.00". G. Fixed Asset Disposal – to approve disposal

"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."

- H. Change Orders to Current Contracts to approve modifications
  - Engineering Services Contract BLM House Renovation

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

• 21-008-00107-WWSH Hauling of Liquid Domestic Wastewater, Sludge and Collection System Debris

"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."

### 6. REGULAR AGENDA

### A. CONSENT AGENDA ITEMS PULLED FOR DISCUSSION

5A Environmental Education Policy – to approve revisions

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

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

5B Lift Station Cellular Telemetry Construction Contract – to approve contract

"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."

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

B. Greenhouse Gas memo - Potential Project Initiatives

Mr. Dean presented four areas staff anticipate conducting more detailed assessments to better understand LRD's greenhouse gas emissions and what specific actions might be implemented in the future to constrain our greenhouse gas footprint in the future. The Governing Board offered a general consensus on the tentative plan provided by staff.

C. 2500 Jupiter Park Drive Site Plan – Conceptual Site Plan Option Presentation

Suzanne Dombrowski (Chen Moore and Associates) and Sam Ferrari and David Wallace (PGAL Architects) presented conceptual site planning efforts for 2500 Jupiter Park Drive and presented three site plan concepts. The Board expressed a desire to conduct a workshop to further explore site planning efforts as details and options are advanced.

### 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

No comments from the Board were received.

LRD MINUTES PAGE 5 MAY 19, 2022

### 10. ADJOURNMENT

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

"That the Regular Meeting of May 19, 2022 adjourns at 9:17 PM."

BOARD CHAIRMAN

BOARD SECRETARY

RECORDING SECRETARY



Loxahatchee River Watershed Status Dry Season River Flow Summary

The health of the Loxahatchee River is closely tied to the amount of river flow, particularly during the dry season. In periods of low flow, saltwater migrates into the segments of the river that were historically bathed in freshwater, and the salt causes harm to the surrounding habitats. At our meeting we will summarize the 2021-2022 dry season rainfall and river flows, as well as the Minimum Flow and Level flow and salinity violations, relative to historical observations.



## LOXAHATCHEE RIVER DISTRICT'S EXECUTIVE DASHBOARD

S ENVIRONMENTAL		Stewardship	Pre-Treatment	Collection & T	Fransmission	Wa	astewater Trea	atment	Reclaimed Water	EHS		Genera	al Business				River Health	ı
at - John Harches Ru	101	# 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
Ur	nits	% 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)
Greer	n 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
Ye	llow	< 90%	≤ 25	1	≤1,500; 0	< 8.8	1	≤1875	≥ 2	-	< \$9,894,657	≥ 90%	≥ 80%	≥60%	< (30)	1	min ≥ 10 ‰	≤ 3 sites >200
R	ed	<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 B	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 B	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 B	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	Мау	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
-	Мау	55%	13	0	13; 0	6.5	0	1,312	1	0	\$ 46,067,857	102%	92%	81%	(39)	16	31.8	2 > 200
at G	ive Months Freen	0	1	1	5	156	13	140	11	6	153	7	14	4	0	0	5	0
Metric	Owner	O'Neill	Pugsley	Dean	Dean	Pugsley	Pugsley	Pugsley	Dean	Horchar	Fraraccio	Fraraccio	Fraraccio	Dean	Dean	Howard	Howard	Howard

#### Explanation

Metric

Stewardship

River Center visitors was much lower than normal or expected due to a few factors. The primary factor was a very low number of field trips (only 3), and staffing turnover also impacted this metric.

Capital Projects (time) The overall Capital Program schedule improved through May with Clarifier # 3 rebid and the Lift Station Telemetry projects being awarded. Moving the Control Panel Replacement project and the Vacuum Truck Dump Facility project forward will result in continued improvement through June and July. See Kris' report for more information.

Minimum Flows & Levels The river experienced 16 days of MFL violation in May. There were 21 days when flows over Lainhart Dam were less than 35 cfs, with only 3 cfs flowing over the dam on May 10th. Maximum salinity observed at rivermile 9.1 was 8.65 ppt, and salinity exceeded 2.0 ppt on 16 days. See Bud's report for more details.

River Water Quality High fecal coliform bacteria (>200 cfu/100 ml) were observed at Stations 67 (NW Fork @ Trapper Nelson's dock) and 100 (mouth of Cypress Creek). See Bud's report for additional details.



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### MEMORANDUM

- TO: Governing Board
- FROM: Administration Staff
- DATE: June 16, 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 Monitoring Policy to approve revisions
- B. Sewer Backup Policy to approve policy
- C. Retirement Plan Investment Policy to approve a revision
- D. Fixed Asset Disposal to approve disposal
- E. Change Order to approve change order

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 June 16, 2022 as presented."

Signed ( 2 D. Albrey Arrington, Ph.D. Executive Director

James D. Snyder CHAIRMAN Gordon M. Boggie

Stephen B. Rockoff BOARD MEMBER

Dr. Matt H. Rostock BOARD MEMBER



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### **MEMORANDUM**

TO:GOVERNING BOARDFROM:D. ALBREY ARRINGTON, Ph.D.DATE:JUNE 1, 2022SUBJECT:ENVIRONMENTAL MONITORING POLICY

In September 2020 the Governing Board approved our Environmental Monitoring 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 monitoring.

Section 6. (24) "To provide necessary laboratories and facilities for testing of operating systems, including assessment of water quality, critical habitats, and environmental health within the Loxahatchee River watershed."

As such, LRD staff have reviewed our Environmental Monitoring 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.

The Loxahatchee River District has a solid reputation for collecting quality environmental data within our community and among key stakeholder groups focused on the preservation of the Loxahatchee River. The environmental data we collect under this policy provide valuable information that is used by various agencies when prioritizing environmental enhancement projects (e.g., Loxahatchee River Preservation Initiative projects).

This revised Environmental Monitoring Policy will guide our efforts as we continue to conduct environmental monitoring within the Loxahatchee River Watershed to assess, quantify, and objectively communicate ecological conditions within the watershed. This is an important policy as we look forward to achieving our mission and vision (*inspiring and achieving a healthy environment*) over the coming years.

Therefore, I request your approval of the following motion:

**"THAT THE GOVERNING BOARD approve the revised Environmental Monitoring Policy with an effective date of June 17, 2022."** 

James D. Snyder CHAIRMAN Gordon M. Boggie BOARD MEMBER Stephen B. Rockoff BOARD MEMBER

Dr. Matt H. Rostock BOARD MEMBER

ENVIRONMENT		Doc No:	LRD-POL-IS-10.00
1.8-		Effective Date	<del>9/17/2020<u>6/17/2022</u></del>
CONTROL OIGHT	LOXAHATCHEE RIVER DISTRICT	Revision History:	<u>9/17/2020</u>
Author: Albroy	Arrington & Bud Howard	Revision No.	θ <u>1</u>
Aution. Albrey A		Review Date:	
Issuing Department: Info	ormation Systems	Page:	Page 1 of 4

### ENVIRONMENTAL MONITORING POLICY

### Purpose

To establish the goals and objectives of our environmental monitoring efforts, which are ultimately intended to assess, quantify, and <u>objectively</u> communicate the environmental impacts due to improperly functioning Systems ecological conditions within the Loxahatchee River watershed.

### Policy

It is the policy of the Loxahatchee River Environmental Control District (LRD) to establish and support a program of environmental monitoring to assess ecological conditions within the Loxahatchee River watershed, including water quality (e.g., nutrient concentrations), critical habitats (e.g., seagrasses, oyster reefs), and environmental health (e.g., occurrence and concentrations of fecal coliform bacteria and harmful algae) to assess types, amounts, sources, and impacts of pollutants derived from or associated with improperly functioning Systems. This policy recognizes it is may be necessary and appropriate to monitor environmental conditions at unimpacted sites (e.g., a control or reference site) to elucidate impacts from inadequate or failed Systems.

LRD's environmental monitoring efforts should be designed to:

- A. Collect the right kindsappropriate types and amounts of data to assess <u>ecological conditions</u> that may reasonably indicate ecosystem impacts or public concerns and the underlying drivers of such impacts and ecosystem impacts due to inadequate or failing Systems. Such data may include physical and chemical characteristics of surface water or groundwater (i.e., water quality); distribution, density, recruitment, and/or condition of relevant biota; and <u>may</u> assessing potential contributions of Systems to <u>local eutrophication or</u> climate change (e.g., greenhouse gas emissions). Such data should be collected at spatial and temporal scales adequate to assess <u>System performance</u>the specified question or monitoring objective. This policy — recognizesing that long-term monitoring and assessment efforts are critical to documenting and understanding degradation or recovery of <u>environmental ecological</u> conditions over time.
- B. Collect reliable data. Samples and resulting data must be collected or generated in an unbiased, objective manner pursuant to established protocols (e.g., Wildpine Lab Quality Manual, Wildpine Lab Standard Operating Procedures, FDEP water sampling protocols, peer-reviewed methods). Data must be of known and documented quality (e.g., TNI, ISO/IEC Standards) and from an accredited laboratory using certified methods whenever possible. Metadata should be maintained and include quality control criteria (e.g., data qualifiers).

Authority: LRD Enabling Act, especially Sections 6 (22) and 6(24), Chapter 31-16 Date Approved by Governing Board: 9/17/2020TBD

ENVIRONMENT	-	Doc No:	LRD-POL-IS-10.00
A C C		Effective Date	<del>9/17/2020<u>6/17/2022</u></del>
ONTROL OWNER	LOXAHATCHEE RIVER DISTRICT	Revision History:	<u>9/17/2020</u>
Author: Albrey Arrington & Bud Howard		Revision No.	θ <u>1</u>
		Review Date:	
Issuing Department: Info	rmation Systems	Page:	Page 2 of 4

C. Make data accessible to the public, scientific community, and natural resource managers. Results from environmental monitoring efforts should be made freely available to the public (e.g., published on LRD website, incorporated into LRD's environmental education programs), appropriately archived (e.g., uploaded to FDEP's Watershed Information Network <u>{WIN}</u> and/or Florida Storage and Retrieval {STORET}), communicated at technical conferences, and to the extent practical published in peer-reviewed journals. Such data should contribute to data-driven decision making within the LRD and other agencies, organizations, and stakeholders engaged in the Loxahatchee River watershed (e.g., SFWMD). When practical, LRD's eEnvironmental mM onitoring efforts may:

- A. evaluate and implement suitable new technologies;
- B. use a hypothesis-driven approach;
- C. conduct controlled experiments to elucidate underlying mechanisms; and
- D. collaborate with others when such collaboration improves the extent, quality, reliability, or efficiency of data collection, analysis, dissemination, or publication.

### Authority

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

Section 6(22) "To investigate complaints caused by inadequate services or operation."

Section 6(24) "To provide necessary laboratories and facilities for testing of operating systems, including assessment of water quality, critical habitats, and environmental health within the Loxahatchee River watershed."

### Definitions

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

- A. <u>System</u>: any water system, sewer system, or water and sewer system; a system for the collection, treatment, and disposal of solid waste; a storm and surface drainage system; or a combination thereof.
- **B.**<u>A.</u> <u>Compliance Monitoring</u>: is monitoring conducted to ensure that a regulated entity is remaining compliant with applicable environmental permits, regulations, and laws.
- B. Ecological Condition: is the state of an ecosystem, which includes their physical, chemical, and biological characteristics and the processes and interactions that connect them.
- C. <u>Ecosystem</u>: an ecological unit in which the biological, physical, and chemical components of the environment interact.
- D. <u>Environment</u>: the surroundings of an organism, including the plants, animals, and microbes with which it interacts.
- E. <u>Environmental Education</u>: the process by which individuals develop a deeper knowledge of the environment, awareness of effective solutions, and increased motivation to implement solutions.
- F. <u>Environmental Monitoring</u>: the observation and study of the environment, typically involving collecting samples and specimens of or from water, land, air, or biota to determine if any physical or biological factors are negatively impacting ecosystems. Such observation and study may include <u>sS</u>urveillance <u>Monitoring</u> or <u>eC</u>ompliance <u>mM</u>onitoring.
- G. <u>Pollutant</u>: a by-product of human activity that causes harm to human health and/or the natural environment.
- H. <u>Solid waste</u>: 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. <u>Stormwater</u>: means rainwater that runs off streets, lawns, and other sites and includes water discharged to manage flooding, i.e., flood control discharges.
- J. <u>Surface Water</u>: means water upon the surface of the earth.
- H. Surveillance Monitoring: repeated, standardized measurement of ecological variables at a site or sites to investigate possible temporal and/or spatial trends.
- I. System: any water system, sewer system, or water and sewer system; a system for the collection, treatment, and disposal of solid waste; a storm and surface drainage system; or a combination thereof.

- J. The NELAC Institute (TNI): a national accreditation program for environmental laboratories.
- K. <u>Wastewater:</u> 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.K. <u>Watershed</u>: the area drained by a given waterbody.
- M. <u>Water supply</u>: a source, means, or process of supplying water as for a community.
- N.<u>A. The NELAC Institute (TNI)</u>: a national accreditation program for environmental laboratories.

### **Relevant Procedures**

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

- A. Wildpine Lab Quality Manual
- B. Wildpine Lab Standard Operating Procedures

### **Relevant Policies**

The following policies may relate to this policy:

A. Environmental Education Policy

### **Policy Questions**

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



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loxahatcheeriver.org

### MEMORANDUM

To: Governing Board

From: Kara Peterson, Director of Finance and Administration

Date: June 10, 2022

Subject: Sewer Backup Policy

Staff continues to work towards improving governance of the District. In addition to reviewing and updating existing policies, staff are working to identify and draft 'missing' policies. One such 'missing' policy is a Sewer Backup Policy. This policy has been developed to ensure that sewer backups are promptly and properly addressed.

On the following pages you will find a draft Sewer Backup Policy for your consideration. This policy continues our systematic effort to identify and define policies as "a principle of action adopted by the LRD Governing Board. Mr. Shenkman has reviewed the policy and found it to be legally sufficient. LRD senior staff has carefully reviewed the policy and may have additional revisions before final action is taken by the LRD Governing Board.

I look forward to receiving your comments and feedback on this draft policy. If you find the policy acceptable, I offer the following motion for your consideration:

"THAT THE DISTRICT GOVERNING BOARD approve the attached Sewer Backup Policy and direct the Executive Director to implement this policy with an effective date of June 17, 2022."

James D. Snyder CHAIRMAN Stephen B. Rockoff BOARD MEMBER Dr. Matt H. Rostock BOARD MEMBER Gordon Boggie BOARD MEMBER

ENVIRONMENT		Doc No:	LRD-POL-ADM-16.00
		Effective Date	06/17/2022
CONTROL OUT	LOXAHATCHEE RIVER DISTRICT	Revision History:	New
Author: Kara Frara	ania	Revision No.	1
Aution. Kara Frara		Review Date:	06/2027
Issuing Department: Finance a	and Administration	Page:	Page 1 of 4

### SEWER BACKUP POLICY

### Purpose

The District recognizes that a sewer backup can create a stressful and emotional situation for a property owner or renter. In some cases it may cause health and safety concerns as well as property loss. A proper response to a sewer backup can greatly minimize property damage and diminish the threat of illness. This policy has been developed to ensure that sewer backups are promptly and properly addressed.

### Policy

The District is responsible for maintaining the District owned Sewer System. Property owners are responsible for maintaining the Sewer System that serves their property and is not owned by the District (e.g., Sewer System on their private property). Maintenance includes Preventative Maintenance and Corrective Maintenance (e.g., clearing a blockage).

When a District customer experiences an apparent disruption in their sewer service, the District urges the customer to first call a plumber to diagnose the problem. If the plumber determines the problem is being caused by a blockage or failure of the District Owned Sewer System, then the property owner should call the District's emergency phone number (561-747-5708) and report the nature of the problem and the plumber's determination. District staff will then be dispatched to address the issue. Also, the District will reimburse the property owner for reasonable plumber costs when District staff confirm that the Sewer System failure was caused by the District-owned Sewer System.

It is the property owner's responsibility to arrange for prompt cleanup of their property and it is the property owner's responsibility to identify and hire a contractor, if one is needed, for these services. If the property owner believes the District bears any responsibility for the blockage and associated damages, then the property owner must notify the District (via the emergency phone line 561-747-5708) promptly, and enable the District to inspect the failed assets that caused the damage.

The District will not bear any responsibility for any loss or damages for backups deemed by the District to have originated in customer-owned Sewer System or due to customer negligence. The District may assist in initiating remediation, but doing so does not imply the District accepts responsibility for any damage or loss.

The District will maintain liability insurance for those cases where responsibility falls with the District. When requested by a property owner, the District will report a backup to its insurance carrier. Once the incident has been reported to the carrier, the District will rely on the advice of attorney and insurance carrier.

Pending final approval from the Executive Director, the District is authorized to settle claims where responsibility falls with the District up to the following limits:

- 1. Up to \$15,000 per incident for cleanup and restoration expenses upon being presented with itemized invoice from the person or company performing the cleaning and restoration services;
- 2. Up to \$5,000 per incident of the actual cash value of the personal property damaged or destroyed by the backup;
- 3. For reasonable temporary housing while their home is being restored if their home has been rendered reasonably uninhabitable due to a Sewer System failure that was caused by the District-owned Sewer System.

The District reserves the right to review and adjust invoices and claims submitted and will reimburse for only those costs found to be reasonable and necessary.

### Definitions

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

- A. Corrective Maintenance is maintenance of assets to restore satisfactory operating performance, which occurs after the asset has failed.
- B. Preventative Maintenance the systematic maintenance of assets to provide satisfactory operating performance, which occurs before the asset has failed.
- C. Sewer System any plant, facility, or property, and additions, extensions, and improvements thereto at any future time constructed or acquired as part thereof, useful or necessary, or having the present capacity for future use in connection with the collection, treatment, purification, or disposal of sewage of any nature or originating from any source, including industrial wastes resulting from any processes of industry, manufacture, trade, or business, or from the development of any natural resources; and without limiting the generality of the foregoing definition shall include treatment plants, pumping stations, lift stations, valves, force mains, intercepting sewers, laterals, pressure lines, mains, and all necessary appurtenances and equipment; all sewer mains and laterals for the reception and collection of sewage from premises connected therewith; and shall include all real and personal property and any interest therein, rights, easements, and franchises of nature whatsoever relating to any such sewer system and necessary or convenient for the operation thereof.

### **Relevant Procedures**

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

A. <u>Sewer Backup Procedures (under development)</u>

### **Relevant Policies**

A. Maintenance Policy

### **Policy Questions**

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



## <u>Item 5C</u>

# Retirement Plan Investment Policy - this item will be presented at a later Board meeting



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2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

### MEMORANDUM

To:Governing BoardFrom:Kara Fraraccio, Director of Finance and AdministrationDate:June 10, 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	A	cquired Value	Book Value	 imated /alue
2685		13 KW Portable Generator	Not Operational	09/30/11	\$	2,499	\$ -	\$ 50
2908		Dell Laptop	Parts Only	09/30/19		1,745	-	10
Total As	ssets to	be Disposed			\$	4,244	\$ -	\$ 50

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:

Description	<u>Serial Number</u>	<u>Condition</u>	Estimated Value
2 HP Barnes Pump 5 5 HP Flygt Pump 1 3 HP Flygt Pump 1	SGVF2022L/ZS190494 SGVF2032L/C1279959 FLY-8860030 FLY-9261664 FLY-9230965	Beyond Repair Beyond Repair Beyond Repair Beyond Repair 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 tag numbers 2685 and 2908, and the items from aggregated assets listed in the schedule above in accordance with the District's Disposal of Surplus Tangible Personal Property Policy."

Gordon Boggie BOARD MEMBER



2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

### MEMORANDUM

TO: D. Albrey Arrington, Ph.D.

FROM: Kris Dean, P.E., Director of Engineering Services

DATE: June 16, 2022

SUBJECT: Construction Contract: Lift Station Fall Protection Improvements – Change Order 003

In November 2020, the Governing Board awarded a construction project to provide fall protection at all existing lift stations in our transmission system. Fall protection consists of a pedestrian rated grate installed below the wetwell lid. The grate allows access and maintenance of wetwell equipment excluding pump removal or maintenance requiring entry into the wetwell. In both excluded instances other precautions will be taken to reduce the risk of a fall.

Work is complete on the transmission system and staff are proposing to add the WWTF lift stations to the project. As such, Baxter & Woodman has coordinated a proposal with the contractor Florida Design Drillers for the additional work. Please see attached.

Change orders to date on the project are summarized below.

Change Order 001:	(\$22,487.91) + 75 days
Change Order 002 (time extension for supply chain issues):	NO COST + 145 days
Change Order 003 (proposed):	(\$22,943.12) + 109 days

Staff recommend the following motion:

"THAT THE DISTRICT GOVERNING BOARD approve Change Order 003 in the amount of \$22,943.12 to the Lift Station Fall Protection Improvements construction contract with Florida Design Drillers, Corp."

James D. Snyder CHAIRMAN Gordon M. Boggie

Stephen B. Rockoff BOARD MEMBER

Dr. Matt H. Rostock BOARD MEMBER

### LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT 2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458 (561) 747-5700 FAX (561) 747-9929

### CHANGE ORDER #3

DATE: 06/15/2022

PROJECT NAME:	LIFT STATION FALL PROTECTION IMPROVEMENTS
OWNER:	Loxahatchee River Environmental Control District
CONTRACTOR:	Florida Design Drilling, Inc.

### THE FOLLOWING CHANGES:

1. Additional Fall Protection devices for Treatment Plant.

#### **JUSTIFICATION:**

1. Request from Loxahatchee River Environmental Control District, Cost Proposal & Schedule attached.

### CHANGE TO CONTRACT PRICE:

Original CONTRACT PRICE:	\$297,000.00
Current Contract Price including C.O. #2	\$319,487.91
Contract Price due to this Change Order will be <i>INCREASED/DECREASED</i> by:	\$22,943.12
The New Contract Price including this Change Order #03 will be:	\$342,431.03

### CHANGE TO CONTRACT TIME:

Procurement and installation adds 109 days to the Contract. The DATE OF COMPLETION of all Work will be: Final Completion – September 12, 2022.

APPROVED	BY	CONTRACTOR:
111 1 110 1 22	~ .	our rundi or i

6/15/2022

FLORIDA DESIGN DRILLING

DATE

APPROVED BY ENGINEER:

R.M.C. hisman

BAXTER & WOODMAN

06/15/22 DATE

APPROVED BY OWNER:

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT DATE

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2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

### MEMORANDUM

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

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

DATE: June 2, 2022

SUBJECT: Loxahatchee River Subaqueous Force Main Replacement/R20036 – Professional Engineering Services – Design and Construction

In December 2020, the District placed into service the 16" aerial force main across the Loxahatchee River on the Alternate AlA/Damon Bridge. With the aerial force main in service the District was poised to pursue investigation of the 24" subaqueous pipeline crossing beneath the Loxahatchee River. The contractor mobilized in March 2021 and installed access ports on the north and south ends of the crossing and began efforts to clean the force main prior to the inspection. Efforts to complete the cleaning encountered several issues including access, excessive sand/debris, an inoperable valve and failing pipe liner. Ultimately the failing pipe liner brought the project to a halt in May 2021 as the consulting engineer and contractor sought solutions for pipe liner removal.

The consulting engineer completed their review of the project and liner removal options in July and issued a project status update with recommendation. Based on the understanding that an existing technology to remove the liner from the 24" subaqueous pipeline is not currently available the recommendation was to terminate the pipe cleaning contract and pursue alternate force main routes across the river that provide redundancy to the system.

Attached you will find a work authorization from Mock, Roos and Associates issued under the RFQ 20-001-PROFSERVICES Continuing Services Contract. This work authorization will provide engineering design and construction services for a directional drill installation under the Loxahatchee River west of the FEC railroad bridge. This route was selected during preliminary engineering performed by Mock Roos and presents the most favorable construction and operation conditions and the least risk in both the near-term installation and long-term operation of the replacement force main. A copy of the report is available for your review if desired.

Staff recommend the following motion:

"THAT THE DISTRICT GOVERNING BOARD authorize the Executive Director to enter into the Contract for Professional Engineering Services for the Loxahatchee River Subaqueous Force Main Replacement in the amount of \$229,895."

James D. Snyder CHAIRMAN Gordon M. Boggie BOARD MEMBER Stephen B. Rockoff BOARD MEMBER Dr. Matt H. Rostock BOARD MEMBER



June 1, 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.C0089.40Subject:Subaqueous Forcemain Replacement

Dear Mr. Dean:

We are submitting the attached *Proposal to Provide Professional Engineering Services for the Redundant Subaqueous Forcemain Replacement.* Please review the attached proposal and return one signed copy to our office as our authorization to proceed with the Scope of Services outlined in the proposal.

We will provide the Scope of Services on an hourly basis, plus reimbursable expenses. We anticipate the total fee to provide the Scope of Services will be \$229,895.

If you have any questions please contact me at 683-3113, extension 293. Thank you for using Mock•Roos on this project. We look forward to working with you.

Sincerely, MOCK, ROOS & ASSOCIATES, INC.

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

GGG:jeh Copies: Bookkeeping

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Mock, Roos & Associates, Inc.

### Proposal to Provide Professional Engineering Services for the Subaqueous Forcemain Replacement

Services to be provided by:	Mock•Roos
Services provided to (District):	Loxahatchee River Environmental Control District
Proposal Date: Revised:	May 26, 2022 June 1, 2022

### **Proposal Terms**

### A. Project Understanding:

The District provides wastewater service to Jupiter, Tequesta, portions of Juno Beach, unincorporated northern Palm Beach County and unincorporated southern Martin County. The original wastewater flow from the northeast service area was collected and pumped through an existing 24" subaqueous forcemain that crossed the Loxahatchee River (River) and directed the flow south and ultimately west to the District's Wastewater Treatment Plan. The original 24" subaqueous forcemain was constructed in 1977. Due to concerns regarding the condition of the original forcemain, in 2018 the District completed a project replacing the subaqueous forcemain crossing with a 16" aerial crossing that is attached to the Alternate A1A/ Damon Bridge (A1A). However, due to this aerial forcemain crossing being a potential single point of failure, the District desires to install a new redundant subaqueous forcemain crossing the River. Based on a previous hydraulic study by AECOM, a minimum 18" diameter HDPE pipe is recommended for the new River crossing.

During the preliminary engineering phase of the project, a feasibility and route study determined that the most feasible route for a horizontally directional drilled replacement forcemain was a route lying just west of the FEC tracks, from an entry pit location in the District parcel on the west side of the FEC tracks near the intersection of East Riverside Drive south through the District's parcel and a Town of Jupiter parcel, under the River west of the FEC bridge, through the District's existing utility easement along the east edge of the Land's End community, to an exit pit on the east side of Old Dixie Highway outside the Land's End gate. This project is to design the replacement forcemain as recommended in the previous Technical Memorandum. The Design Phase scope will also include permit applications to agencies with jurisdiction and limited bid phase services.

The District also requested that Mock•Roos provide assistance with engineering during construction. Construction Phase Engineering services will be based on up to a six-month (180 calendar days) construction duration plus 45 additional days for Project Closeout.

Mock•Roos will provide services as outlined in **B. Scope of Services** below.

### B. Scope of Services:

### TASK 1 – SURVEY/PRELIMINARY ENGINEERING

- 1.1 Attend project Kick-off Meeting with District staff to review the scope and general layout of the proposed project and to obtain District input regarding expectations for the project. CONSULTANT will prepare and distribute meeting minutes.
- 1.2 Provide and coordinate survey services to prepare a topographic survey of the area in the immediate vicinity of the proposed pipeline route and provide a base map of the survey data. Obtain horizontal and vertical control utilizing Florida state plane 83/90 adjustment Horizontal Datum and NAVD 88 Vertical Datum. Prepare a calculated base map based upon available right-of-way maps from local governing agencies and recorded plats of record. Prepare a Topographic Survey as defined in Rule SJ-17.050 of the Standards of Practice adopted by the Board of Professional Surveyors and Mappers. In particular, the survey will depict the following information:
  - Topography at major ground elevation changes to depict existing ground profile at proposed project area. All Topographical Surveys shall have stationing established from south to north and west to east. This shall be accomplished by creating a baseline in the field to collect pertinent data.
  - Location of visible fixed improvements within the proposed project limits, right-of-way, including physical objects, roadway pavement, driveways, sidewalks, walls, curb, drainage swales, trees, signs, fences, power poles, buildings and trees of substantial size that would be pertinent to design lying adjacent to the existing right-of-way.
  - Locations of above ground existing utilities: FP&L, Telecommunications, Cable TV, Natural Gas, Potable Water (valves, fire hydrants, and meters), Force Mains (valves), Sanitary Sewer, Reclaimed Water Mains (valves), Storm Sewers, including invert elevations, pipe size, type and direction for storm and sanitary infrastructure.
  - Elevations shall be indicated at 50-foot stations, at a minimum, to indicate existing grades. Intermediate grades shall be indicated at all significant grade breaks.
  - Provide and reference benchmarks. Elevations to be referenced to an existing established City or County Benchmark.
  - Survey shall not provide bathymetric data for the river crossing. Site access is currently limited with bridge construction. Bathymetric data will be harvested from other existing sources.
- 1.3 Compile and coordinate a Utility Basemap utilizing as-built and record information previously obtained from various sources.
- 1.4 Provide and coordinate underground utility location services to confirm existing subsurface utility locations at up to six (6) locations, as necessary to advance engineering design to 60% completion. Perform an ASCE 38-02 Quality Level B utility investigation, in order to identify the utility conflicts within a 5-foot radius of the test hole locations. This includes direct induction of toneable subsurface utility facilities from surface accessible features, and a Ground Penetrating Radar sweep for non-toneable facilities. Mark detected facilities with American Public Works

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Association (APWA) compliant colors, flags on soft ground and washable chalk on hard surfaces. Provide an ASCE 38-02 Quality Level A field investigation within the project limits. Provide a test-hole data sheet with the obtainable data; digital photos, utility description, depth, size, type, direction, and material of the facility. Provide survey and location of utility test holes using network corrected Global Navigation Satellite Systems (GNSS) surveying methods.

### TASK 2 – DESIGN PHASE SERVICES

2.1 Develop one (1) set of construction drawings (approximately 10 sheets) generally consisting of a cover sheet, general notes and location map, key sheet, suggested sequence, plan and profile sheets (1-inch to 20-foot scale), enlarged tie-in details as necessary, project-specific details, and standard detail sheets. CONSULTANT will follow established standards and processes for the assurance of quality control in the development of deliverables associated with the design effort. Quality reviews will be sufficiently documented with each of the Construction Contract Document Development Submittals.

The development of the construction drawings will follow a standard Intermediate (60-percent), Pre-Final (95-percent) and Final (100-percent) review schedule. The QA/QC process will resolve comments and issues at the appropriate point in the review process. CONSULTANT will compile the construction drawings adequately for awarding the project via a competitive bidding process.

2.2 Prepare technical specifications and a schedule of values for the project. CONSULTANT will follow established standards and processes for the assurance of quality control in the development of deliverables associated with the design effort. Quality reviews will be sufficiently documented with each of the Contract Document Development Submittals.

The development of the technical specifications will follow a standard Intermediate (60-percent) List of Specifications by Division, Pre-Final (95-percent) and Final (100-percent) complete specifications for review. The QA/QC process will resolve comments and issues at the appropriate point in the review process. CONSULTANT will compile the technical specifications adequately for awarding the project via a competitive bidding process.

2.3 Submit progress drawings, a list of technical specifications, and an updated preliminary Engineer's Opinion of Probable Construction Costs (EOPCC) at the 60-percent project completion. The 60-percent intermediate progress submittal is intended to define and "lock" the Project components, confirm budget, and provide sufficient technical detail to allow the District to evaluate and comment on the design at the intermediate level.

CONSULTANT will attend one (1) progress review meeting at the 60-percent completion point to review progress drawings, discuss design options, and respond to questions.

2.4 Submit progress drawings, technical specifications by division, an updated EOPCC, and recommended construction durations at the 95-percent project completion. The 95-percent pre-final progress submittal will address the comments from the 60-percent review and is intended to confirm budget, provide sufficient technical detail to allow the District to evaluate and comment on the final design, and will be provided to the permitting agencies for review.

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CONSULTANT will attend one (1) progress review meeting at the 95-percent completion point to review progress drawings, discuss design options, and respond to questions.

2.5 Provide 100-percent final design phase deliverables consisting of construction drawings, technical specifications, EOPCC, and schedule of values in paper copies and electronic portable data files (PDF). The 100-percent submittal will include construction constraints such as allowable shutdown time periods, work hour restrictions, and any suggested sequences of construction.

### TASK 3 – PERMITTING SERVICES

- 3.1 Prepare a Florida Department of Health in Palm Beach County permit application package including attachments and submit for approval. (District will pay application fees) Prepare and submit responses to FDOH for up to two (2) Requests for Additional Information (RAI), if required.
- 3.2 Prepare a dredge and fill permit application package including attachments and submit to the Army Corps of Engineers for approval. (District will pay application fees) Prepare and submit responses to ACOE for up to two (2) RAIs, if required.
- 3.3 Prepare a Town of Jupiter engineering/utilities permit application package including attachments and submit for approval. (District will pay application fees) Prepare and submit responses to Town of Jupiter Engineering for up to two (2) RAIs, if required.

### TASK 4 – BID PHASE SERVICES

- 4.1 Assist District purchasing staff with completion of the Bid Package as necessary, including recommendations for contract duration, project description, calculation of liquidated damages, etc.
- 4.2 Attend one (1) pre-bid conference and site visit with prospective Bidders.
- 4.3 Assist the District in preparing responses to Bidder's questions.
- 4.4 Assist the District in review of received Bids. Provide a "Recommendation for Award" based on the received Bids.

### TASK 5 – PROJECT MANAGEMENT

5.1 Provide ongoing coordination with inhouse staff, subconsultants and the District as necessary. Develop and provide regular project updates to the District.

### TASK 6 – ENGINEERING DURING CONSTRUCTION

6.1 Prepare and submit a Notice of Commencement and Certificate of Completion to the permitting agencies (USACE, FDEP, and PBCHD).

- 6.2 Prepare an agenda and conduct a pre-construction meeting with the Construction Contractor, subcontractors, the District and other stakeholders. Prepare and distribute the pre-construction meeting minutes.
- 6.3 Attend bi-weekly construction meetings as needed with the Construction Contractor, subcontractors, sub-consultants, and District during the construction period. Scope of Services is based on up to a six-month construction duration. Prepare and distribute meeting minutes prepared for bi-weekly construction meetings as needed. Up to 12 meetings are anticipated, with an average duration of not more than three (3) hours per meeting, including travel time. It is anticipated that meeting agendas and meeting minutes will require not more than two (2) hours per meeting.
- 6.4 Attend up to eight (8) additional on-site construction meetings with the Construction Contractor, the District, and others as appropriate, during the construction period. It is anticipated that each meeting will have an average duration not exceeding two (2) hours, including travel time.
- 6.5 Review Construction Contractor's shop drawings and engineering submittals for conformance with the Contract Documents. Up to two (2) reviews per submittal are anticipated to address comments as appropriate.
- 6.6 Review and respond Construction Contractor's Requests for Information (RFIs). Up to four (4) RFIs are anticipated.
- 6.7 Review Construction Contractor-submitted pay applications. Provide review and payment recommendations for the pay applications (up to six pay applications are estimated).
- 6.8 Review and recommend minor field directive changes, construction change directives, and proposed change orders, as requested by the Construction Contractor or the District. Services related to major changes or change order proposals will be negotiated at that time.
- 6.9 Review Construction Contractor's record (as-built) drawings and required material testing submittals to check for general conformance with the Contract Documents and the design intent.
- 6.10 Provide a construction site representative (24 hours per week average) to perform observations of the Construction Contractor's work during the active onsite construction work and prepare field observation reports. Provide Engineer to review field observation reports and provide communication/coordination regarding findings noted in these reports.
- 6.11 Provide site visits by Project Engineer during the active onsite construction work to review the construction progress. A total of up to twelve (12) site visits are anticipated, three (3) hours per visit, including travel time.
- 6.12 Perform one (1) substantial completion walk-through with the Construction Contractor, subconsultants, and the District. Prepare and distribute the EJCDC "substantial completion statement(s)" and associated punch list(s).
- 6.13 Perform one (1) final completion walk-through with the Construction Contractor, subconsultants, and the District.

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- 6.14 Assist the District with project closeout by reviewing and compiling Construction Contractor furnished documents and preparing closeout packages for the District to provide to permitting agencies.
- 6.15 Provide project management services throughout the construction period including reviewing and coordinating project engineering resources, and coordination with the District, permitting agencies, and the Construction Contractor.

### C. Schedule/Deliverables:

	Days from NTP
Design and Permitting:	
Survey Basemap	30
60% Design Submittal (15 days for District Review)	120
Permit Submittals	150
95% Design Submittal (15 days for District Review)	195
100% Documents	225
Construction:	
Anticipated Award	285
Substantial Completion	435
Final Completion	480

### D. Additional Services:

- 1. Any services not included in the Scope of Services will be considered Additional Services.
- 2. Any design changes, schedule changes, drawing changes, or other project changes requested by District will be considered Additional Services.
- 3. Additional Services can be provided upon Mock•Roos receiving signed authorization from District.

### E. Assumptions:

- 1. Based on the current scope of services the following items have not been included:
  - a. No evaluation of lift stations or hydraulic system analysis is included in this scope.
  - b. No additional geotechnical services are provided. Subsurface soils information obtained during the previous phase of the project will be utilized for this design.
- 2. The Construction Phase Services fee is based on the Contractor achieving Substantial and Final Completion within the contract schedule requirements. Should the Contractor fail to meet the contract schedule requirements, additional services may be required.

### F. Fees and Rates:

- Mock•Roos will complete these services on an hourly basis at Mock•Roos' hourly rates, plus reimbursable expenses.
- 2. The total fee to provide the Scope of Services is anticipated to be \$229,895.
- Mock•Roos will not provide services in excess of the anticipated fee without signed authorization from Client.
- Mock•Roos can provide Additional Services at the Mock•Roos rates in effect at that time, plus reimbursable expenses or for an agreed upon lump sum fee.

### G. Conditions:

 This proposal serves as a supplement to the general agreement between Mock•Roos and the District currently in effect as the date of authorization to proceed with the Scope of Services outlined above. In case of discrepancies, the terms of this proposal supersede those of previous agreements. This authorization becomes valid upon Mock•Roos receiving a notice to proceed/Purchase Order (PO).

MOCH	K-ROOS
Signed	1:C(1/22
Name:	Garry G. Gruber, P.E.
Title:	Senior Vice President
Date:	June 1, 2022

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### Loxahatchee River Environmental Control District Redundant Subaqueous Forcemain Replacement

### (Mock•Roos PA# C0089.40)

	Labor Categories							
Task Description	Project Director	Senior Project Manager	Senior Engineer	Project Engineer II	Senior Administrative Assistant	Subconsultant		Total
Labor Hourly Billing Rate	\$185	\$175	\$165	\$125	\$65			
Task 1 - Survey/Preliminary Engineering							\$	34,345
1.1 Kick-Off Meeting/Minutes	2	2		4	2		\$	1,350
1.2 Survey	2	2	8	4		\$18,465	\$	21,005
1.3 Utility Basemap		2	4	16			\$	3,010
1.4 Subsurface Utility Exploration		2	2	4		\$7,800	\$	8,980
Task 2 - Design Phase Services		•					\$	55,640
2.1 Construction Drawings	8	24	48	110	2		\$	27,480
2.2 Technical Specifications	4	40	16	20	8		\$	13,400
2.3 60% Progress Submittal/Review Meeting	2	8		16	2		\$	3,900
2.4 95% Progress Submittal/Review Meeting	2	8		16	2		\$	3,900
2.5 100% Final Submittal	8	8	8	20	4		\$	6,960
Task 3 - Permitting							\$	25,470
3.1 FDOH Permit Submittal/RAI	4	20		24	2		\$	7,370
3.2 ACOE Permit Submittal/RAI	6	32		32	6		\$	11,100
3.3 Jupiter Permit Submittal/RAI	2	20		24	2		\$	7,000
Task 4 - Bid Phase Services							\$	6,770
4.1 Assist with Bid Package		4		8	2		\$	1,830
4.2 Pre-Bid Confernece	2	2	4				\$	1,380
4.3 Assist Responding to Bidder's Questions		4		8			\$	1,700
4.4 Review Bids/Recommend Award	2	4	4		2		\$	1,860
Task 5 - Project Management	•			•		•	\$	7,200
5.1 Project Coordination and District Updates	20	20					\$	7,200
Task 6 - Engineering During Construction	•			•		•	\$	99,970
6.1 Notice of Commencement and 3 Certs of Completion		12	12		6		\$	4,470
6.2 Pre-Construction Meeting		4	4		4		\$	1,620
6.3 Bi-Weekly Construction Meetings	4	16	36	18	12		\$	12,510
6.4 Additional Site Meetings		8	16	8	8		\$	5,560
6.5 Shop Drawing Reviews		4	24		8		\$	5,180
6.6 RFI Responses	2	4	12	4	4		\$	3,810
6.7 Pay Application Reviews		6	18	12	6		\$	5,910
6.8 Minor Change Orders, etc	2	4	8	12			\$	3,890
6.9 Review As-Builts/Testing Reports	T	8	16	24			\$	7,040
6.10 Field Observations/Reporting	4		16	216			\$	30,380
6.11 Site Visits by Engineer of Record		16	16	2			\$	5,690

### Loxahatchee River Environmental Control District Redundant Subaqueous Forcemain Replacement

### (Mock•Roos PA# C0089.40)

	Labor Categories							
Task Description	Project Director	Senior Project Manager	Senior Engineer	Project Engineer II	Senior Administrative Assistant	Subconsultant	-	Total
Labor Hourly Billing Rate	\$185	\$175	\$165	\$125	\$65			
6.12 Substantial Comp Walkthrough / Cert. / Punchlist		4	8	12	2		\$	3,650
6.13 Final completion walkthrough			4	4	2		\$	1,290
6.14 Assist with Project Closeout		4	8	8	4		\$	3,280
6.15 Project Management/Coordination	4	20	8		2		\$	5,690
Subtotal	\$ 14,800	\$ 54,600	\$ 49,500	\$ 78,250	\$ 5,980	\$26,265	\$	229,395
		•		Reimbu	irsables		\$	500
						\$2	29,895	



2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

### **MEMORANDUM**

TO: D. Albrey Arrington, Ph.D.

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

DATE: June 3, 2022

SUBJECT: 9278 Indiantown Road – Conceptual Master Plan

In March 2021, the District engaged with KCI Technologies, Inc. for 9278 Indiantown Road conceptual master planning. With the intent to understand a master plan for the property to provide a high functioning base for environmental education and engagement for the public including environmental education facilities, playground and outdoor recreational facilities, utilities, stormwater, parking, canal access to the Loxahatchee River and water features.

Conceptual master planning consists of 3 main tasks; Data Collection, Conceptual Master Plan Development and Final Conceptual Master Plan. KCI has completed Data Collection and is now working through Conceptual Master Plan Development. As KCI works through the Conceptual Master Plan Development staff understand that a workshop is needed for Board input on various aspects. Preparing for the workshop to ensure a productive use of time and resources staff are providing a status update at this month's Board along with conceptual renderings of the site to assist in conveying potential aspects of the ultimate master plan.

The conceptual master plan development has focused on the following key areas: site remediation, education, architecture, environmental enhancement, and recreation.

Site Remediation site remediation including a constructed wetland over the existing lake. This constructed wetland would cap the existing sediments in the lake while submergent, emergent and terrestrial plants incorporated into vegetative islands dispersed across the existing lake footprint would provide filtration to stormwater vastly improving water quality.

Education: Conceptual education facilities would include indoor and outdoor classrooms, amphitheater, general signage and displays identifying various aspects of the site, recreational instruction areas and tactile play areas. These facilities have been conceptualized so that they could be constructed in phases if the Board so desires.

James D. Snyder CHAIRMAN Gordon M. Boggie BOARD MEMBER Stephen B. Rockoff BOARD MEMBER

Dr. Matt H. Rostock BOARD MEMBER

Architecture: Based on programming discussions with staff defining potential expectations for education programming at this site, exhibits and attendance conceptual architectural facilities include:

- A main building with a lobby, public restrooms, exhibit space, food prep and reception.
- Aquaria, touch tanks and animal care
- Maintenance facilities
- 3 separate classrooms both indoor and outdoor (covered).
- A boathouse canoe/paddleboard storage
- Outdoor spaces for recreation including a chickee hut, fishing pier and open space.

Environmental enhancement: Conceptual environmental aspects of the site would include mesic hardwood forests, cypress stands, sabal palm forests, freshwater sloughs and buffer landscaping. Various environmental aspects would contribute to stormwater and passive recreation activities.

Recreation: Conceptual recreation aspects of the site would include walking trail systems that integrate with the walking and biking trails at Riverbend Park and Cypress Creek Natural Area, canoe/kayak/paddle board launch, wade able wetlands, fishing pier and fire pit.

Attached to this memorandum are a series of story boards depicting conceptual facilities for site remediation, education, architecture, environmental and recreation. These story boards are not meant to present a recommendation but to convey general ideas and concepts and assist the Board in their discussions at the workshop.

Costs associated with conceptual facilities are detailed in the attached opinion of construction cost. Costs associated with remediation of the existing site have been separated from costs associated with development/improvement of the site and costs associated with improvements for the Engagement Center (Engagement Center, aquaria, classrooms, boat and supporting facilities) as summarized below:

Site Remediation:	\$780,717.36
Site Development:	\$3,766,701.42
Engagement Center:	\$9,337,971.50

No Board action is required at this time; however, a scheduling exercise for a workshop for 9278 Indiantown Road – Conceptual Master Plan is requested before moving to the next agenda item.

9278 W Indiantown Rd, Jupiter, Florida

## **MASTER PLAN**



March 2022

Prepared by:









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Intent	
Master Plan	
Stormwater	
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Character Image	
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Master Plan	
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Master Plan	
Character Image	
Recreation	
Master Plan	
Character Image	

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## INTENT

### **LRECD Mission**

We are dedicated to protecting public health and preserving the Loxahatchee River watershed and its natural habitats through innovative wastewater solutions, research, and environmental stewardship.

### **Master Plan Intent**

To guide the development of the property into a meaningful base for environmental education and engagement for the public including environmental education facilities, outdoor recreational facilities, utilities, stormwater, parking, and canal access to the Loxahatchee River and water features.

Each of the proposed site features speaks to the LRECD Mission and Master Plan Intent.



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## MASTER PLAN || SITE PLAN

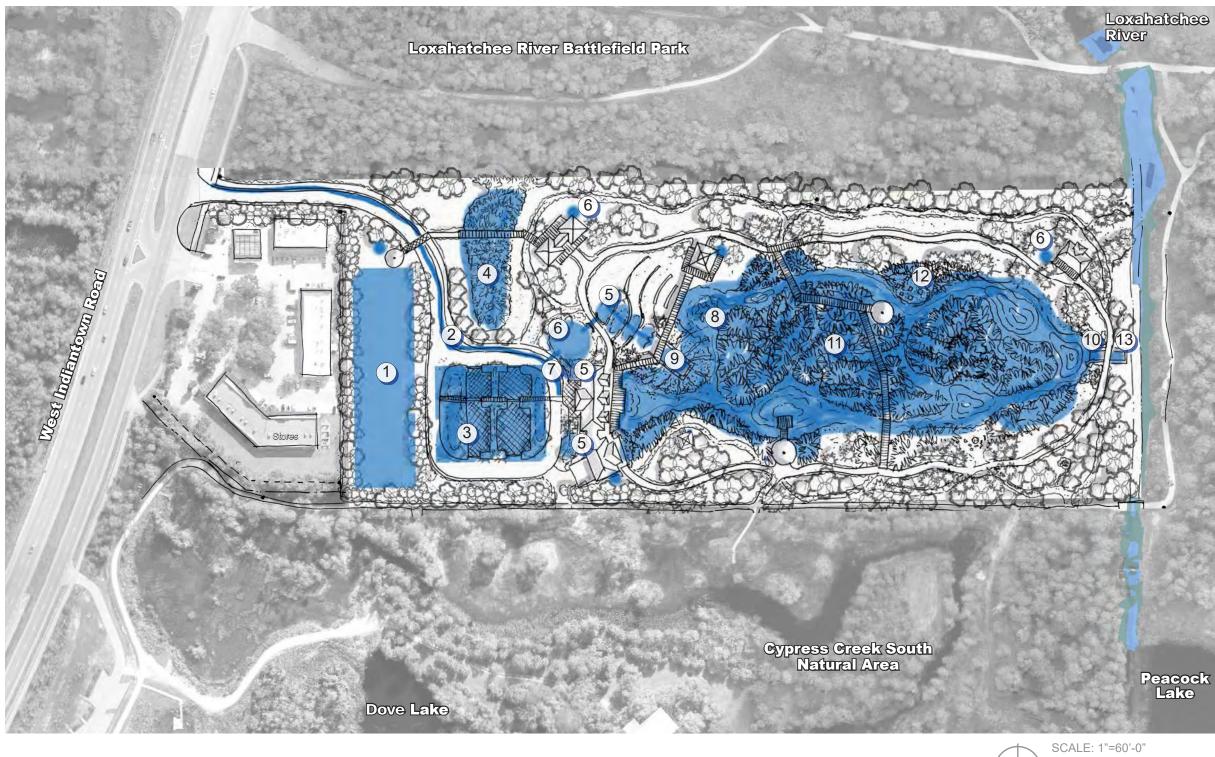


- (2) CHICKEE HUT
- (3) ARCHERY RETENTION FIELD
- (4) RESTORED WETLAND / BOARDWALK
- (5) POROUS PARKING LOTS
- (6) DROP-OFF
- (7) WELCOME CENTER
- (8) AQUARIA / CLASSROOMS
- (9) BACK OF HOUSE / SERVICE
- (10) BIOSWALES
- (11) RAIN GARDEN BASIN
- (12) CLASSROOM
- (13) WEEPING WEIR AMPHITHEATER
- (14) PERCOLATION PATH
- (15) UPLAND TRAIL
- (16) CYPRESS STAND
- (17) CONSTRUCTED WETLAND
- (18) RAINFALL MARKER GARDEN
- (19) BASIN BOARDWALK
- (20) BEACH
- (21) BOAT HOUSE
- (22) CANAL LAUNCH / LOXAHATCHEE RIVER ACCESS
- 23) OUTFALL
- 24) NEIGHBORING TRAIL SYSTEM
- 25) FIREPIT
- (26) FISHING PIER WITH DEEPWATER REFUGE
- Peacock Lake

30'

60'

- (27) CANOPY CLASSROOM
- 28) BRIDGE



## MASTER PLAN || **STORMWATER**



- 1 INFILTRATION BASIN
- 2 BIOSWALES
- 3 POROUS PAVEMENT
- (4) RECONSTRUCTED WETLAND
- 5 RAIN GARDEN
- 6 RETENTION
- (7) UNDERGROUND CONVEYANCE
- (8) WETLAND AERATION
- 9 WEIR / WATER VAULT
- 10 POSSIBLE RECIRCULATION PUMP
- (11) CONSTRUCTED WETLAND
- (12) RAINFALL MARKER GARDEN
- (13) OUTFALL

30'

60'



Rainbarrel



Bioswale

Photo source: www.google.com



Bioswale



Bioswale

Photo source: www.google.com.



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Photo source: www.google.com

Photo source: www.google.com



**Constructed Wetland** 

Photo source: www.google.com



**Porous Paving** 

Photo source: www.google.com.



Outfall / Weir



Spillway

Photo source: www.google.com

Photo source: www.google.com



## MASTER PLAN || EDUCATION

- 1 TACTILE PLAY
- 2 CLASSROOM
- 3 AMPHITHEATER
- (4) CANOPY CLASSROOM
- 5 FIRE PIT
- (6) RAINFALL MARKER GARDEN
- (7) OUTFALL
- 8 RECREATION / INSTRUCTION ARCHERY

  - FISHING
  - CANOEING / KAYAKING

(9) GENERAL SIGNS / DISPLAYS

- WETLAND
- FLORA
- FAUNA



8.0.0 × ×

30'

60'



**Overhead Mobile Display** 





**Flora and Fauna Tank** 

Photo source: www.google.com.



**Outdoor Exhibit** 



**Display Signage** 

Exhibit

Photo source: www.google.com.

7

46

## CHARACTER IMAGE || EDUCATION

Photo source: www.google.com

Photo source: www.google.com



**Outdoor Classromm** 

Photo source: www.google.com



**Chickee Hut** 

Photo source: www.google.com.



Fire Pit / Outdoor Classroom



## CHARACTER IMAGE || EDUCATION

Photo source: www.google.com

Photo source: www.google.com



**Tactile Learning** 

Photo source: www.google.com.

Sign for Flora and Fauna

Photo source: www.google.com.



Displays



**Tactile Learning** 

9 48

## CHARACTER IMAGE || EDUCATION

Photo source: www.google.com

Photo source: www.google.com





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## MASTER PLAN || ARCHITECTURE

1		ENTRANCE / LOBBY / DISPLAY
2		AQUARIA
3		MAINTENANCE / FUTURE OFFICES
4		VOLUNTEER LOCKER ROOM / BREAK ROOM / RR
5		CLASSROOMS
6		OPEN CLASSROOMS
7		BOAT HOUSE
8		FUTURE WET & PINE LAB
9	$\circledast$	CHICKEE HUT/ OPEN AIR PAVILION
10	$\circledast$	CHICKEE HUT AT FISHING PIER
11	$\circledast$	CHICKEE HUT AT CABANA EVENT LAWN / ARCHERY





11

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## MASTER PLAN || **ARCHITECTURE**

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Main Building	1	AREA (SF)
Entry		1,200
Lobby		2,000
Public rest rooms ADA & bus area		1,200
Exhibit space pump station - 40 visitor	ſS	1,000
Exhibit space two - 40 visitors		1,000
Kitchen/caterer prep/snacks		600
Admin Reception		200
Volunteer / lockers / break room		1,500
Total Space Provided	4	8,700
Aquaria	(2)	AREA (SF)
Aquarium space 50-70 peak visitors		3,000
Touch Tank Inside		1,000
Animal care/quaranteen		200
Animal care - life support		200
Total space provided		4,400
•	3	-
Maintenance Service yard - utilities	3	AREA (SF) 1,400
Maintenance room - golf cart		1,400
Offices		1,400
Total space provided		4,000
Classrooms	(5)	AREA (SF)
Classroom 1 - 50 students		1,500
Classroom 2 - 50 students Open Classroom - 50 students		1,500 1,500
-	6	
Total space provided		4,500
Total space provided Boat House	7	4,500 AREA (SF)
Total space provided Boat House Canoes and paddle board storage		4,500 AREA (SF) 800
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers	7	4,500 AREA (SF) 800 500
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers Gear rental - fishing tackle, backpack	7	4,500 AREA (SF) 800 500 200
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers	7	4,500 AREA (SF) 800 500
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers Gear rental - fishing tackle, backpack Total space provided Outdoor Spaces	7 s,	4,500 AREA (SF) 800 500 200 1,500 AREA (SF)
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers Gear rental - fishing tackle, backpack Total space provided Outdoor Spaces Contemplation Chickee	7 s, 9	4,500 AREA (SF) 800 500 200 1,500 AREA (SF) 800
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers Gear rental - fishing tackle, backpack Total space provided Outdoor Spaces Contemplation Chickee Fishing Pier	7 s, 9 10	4,500 AREA (SF) 800 500 200 1,500 AREA (SF) 800 800 800
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers Gear rental - fishing tackle, backpack Total space provided Outdoor Spaces Contemplation Chickee Fishing Pier Cabana Event Lawn Archery Cabana	7 s, 9	4,500 AREA (SF) 800 200 200 1,500 AREA (SF) 800 800 800 800
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers Gear rental - fishing tackle, backpack Total space provided Outdoor Spaces Contemplation Chickee Fishing Pier	7 s, 9 10	4,500 AREA (SF) 800 500 200 1,500 AREA (SF) 800 800 800
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers Gear rental - fishing tackle, backpack Total space provided Outdoor Spaces Contemplation Chickee Fishing Pier Cabana Event Lawn Archery Cabana	7 s, 9 10	4,500 AREA (SF) 800 200 200 1,500 AREA (SF) 800 800 800 800
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers Gear rental - fishing tackle, backpack Total space provided Outdoor Spaces Contemplation Chickee Fishing Pier Cabana Event Lawn Archery Cabana Total space provided  Total Space Provided Main Building	7 s, 9 10	<ul> <li>4,500</li> <li>AREA (SF)</li> <li>500</li> <li>200</li> <li>1,500</li> <li>4REA (SF)</li> <li>800</li> <li>800</li> <li>2,400</li> <li>AREA (SF)</li> <li>8,700</li> </ul>
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers Gear rental - fishing tackle, backpack Total space provided Outdoor Spaces Contemplation Chickee Fishing Pier Cabana Event Lawn Archery Cabana Total space provided Total Space Provided	7 s, 9 10	<ul> <li>4,500</li> <li>AREA (SF)</li> <li>800</li> <li>200</li> <li>200</li> <li>1,500</li> <li>AREA (SF)</li> <li>800</li> <li>800</li> <li>2,400</li> <li>AREA (SF)</li> </ul>
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers Gear rental - fishing tackle, backpack Total space provided Outdoor Spaces Contemplation Chickee Fishing Pier Cabana Event Lawn Archery Cabana Total space provided  Main Building Aquaria Classrooms	7 s, 9 10	<ul> <li>4,500</li> <li>4REA (SF)</li> <li>500</li> <li>200</li> <li>200</li> <li>1,500</li> <li>4REA (SF)</li> <li>800</li> <li>800</li> <li>2,400</li> <li>4,400</li> <li>4,500</li> </ul>
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers Gear rental - fishing tackle, backpack Total space provided Outdoor Spaces Contemplation Chickee Fishing Pier Cabana Event Lawn Archery Cabana Total space provided Main Building Aquaria Classrooms Maintenance Building	7 s, 9 10	<ul> <li>4,500</li> <li>AREA (SF)</li> <li>800</li> <li>200</li> <li>1,500</li> <li>4,500</li> <li>800</li> <li>800</li> <li>800</li> <li>2,400</li> <li>4,400</li> <li>4,500</li> <li>4,000</li> </ul>
Total space provided Boat House Canoes and paddle board storage Visitor restrooms, open showers Gear rental - fishing tackle, backpack Total space provided Dutdoor Spaces Contemplation Chickee Fishing Pier Cabana Event Lawn Archery Cabana Fotal space provided Total Space Provided Main Building Aquaria Classrooms	7 s, 9 10	<ul> <li>4,500</li> <li>AREA (SF)</li> <li>800</li> <li>200</li> <li>200</li> <li>1,500</li> <li>4REA (SF)</li> <li>800</li> <li>800</li> <li>2,400</li> <li>4,400</li> <li>4,500</li> </ul>

Fishing Dock / Chikee / Archery Cabana

Future Wet Lab & Pine Lab

**Total Space Provided** 

2,400

1,500

27,000

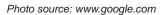
8

30'

60



Welcome Center Inspiration





**Architecture Details** 



Photo source: www.google.com



**Architecture Details** 





Photo source: www.google.com

Photo source: www.google.com



Welcome Center Inspiration

Photo source: www.google.com



**Detached Classroom Building** 

Photo source: www.google.com



Welcome Center Porches



13 52

Photo source: www.google.com

Photo source: www.google.com



Aquaria

Photo source: www.google.com



**River Aquarium** 



**Touch Tank** 



**Touch Tank** 

Photo source: www.google.com

Photo source: www.google.com





Exhibits



Exhibits

**Exhibits Gallery** 

Photo source: www.google.com

Photo source: www.google.com



Exhibits

54

15

Photo source: www.google.com

Photo source: www.google.com



**Contemplation Chickee** 

Photo source: www.google.com



**Outdoor Classroom** 

Photo source: www.google.com



Fishing Dock with Shading



Amphiteather with Band Stand

Photo source: www.google.com

Photo source: www.google.com



## MASTER PLAN || ENVIRONMENTAL



- 2 CYPRESS STAND
- 3 SABAL PALM FOREST
- (4) FRESHWATER SLOUGH
- 5 BUFFER NATIVE PLANTING

60'

30'

## LOXAHATCHEE RIVER DISTRICT ENVIRONMENTAL ENGAGEMENT CENTER CHARACTER IMAGE || ENVIRONMENTAL



**Mesic Hardwood** 

Photo source: www.google.com



Sabal Palm

Photo source: www.google.com



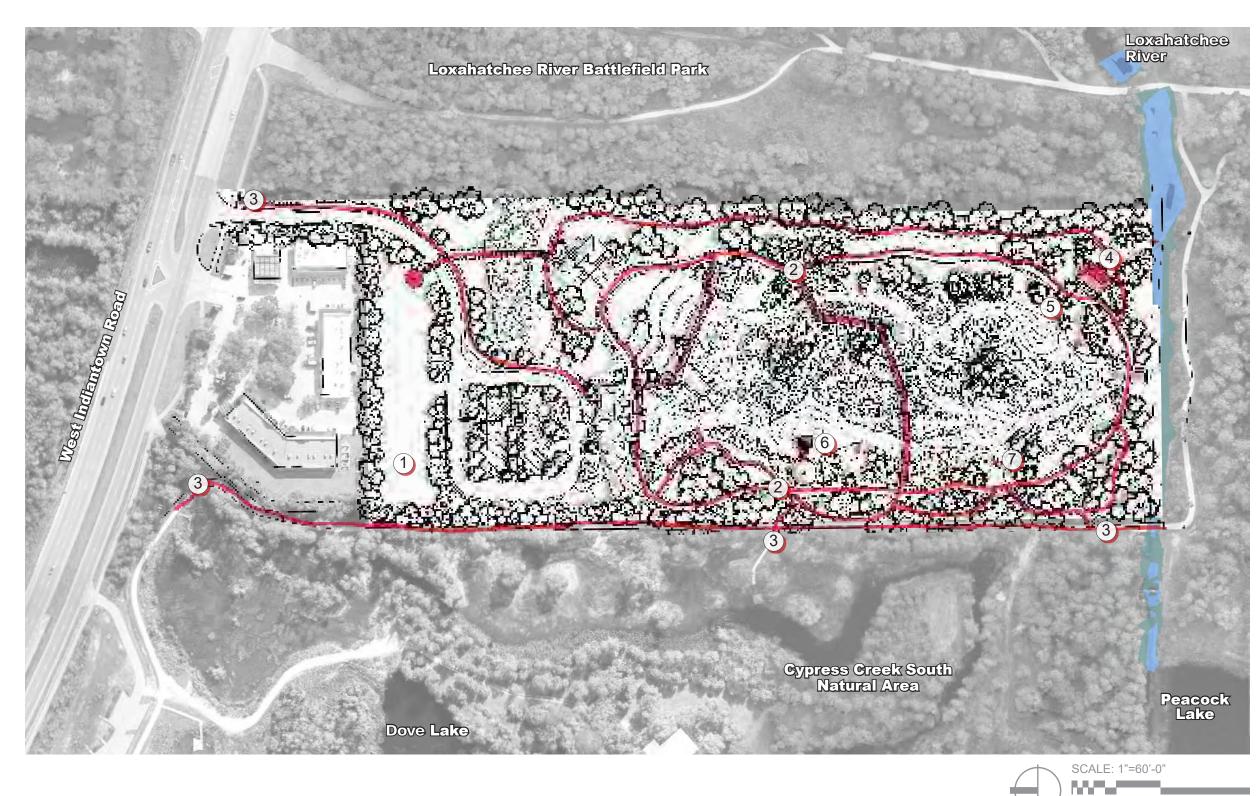
Freshwater Slough



**Cypress Stand** 

Photo source: www.google.com

Photo source: www.google.com



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## MASTER PLAN || RECREATION

- (1) ARCHERY
- 2 TRAIL SYSTEM
- 3 TRAIL SYSTEM CONNECTION
- (4) CANOE / KAYAK
- 5 BEACH
- 6 FISHING PIER



30'

60'



**Biking Trail** 

Photo source: www.google.com



**Climbing Play** 

Photo source: www.google.com

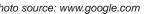


**Bird Watching** 

Photo source: www.google.com

Fishing







Kayak / Canoe



Naturalistic Play Equipment

20 59

## CHARACTER IMAGE || RECREATION

Photo source: www.google.com

Photo source: www.google.com



Stormwater Inspired Swing



Seine Netting

Photo source: www.google.com



**Connecting To Trails** 

Photo source: www.google.com



Hiking / Walking Trail



Archery

## CHARACTER IMAGE || RECREATION

Photo source: www.google.com

Photo source: www.google.com

### LRECD ENVIRONMENTAL ENGAGEMENT CENTER CAMPUS

Loxahatchee River Env. Control District

#### OPINION OF CONSTRUCTION COST Conceptual Master Plan

Prepared By: KCI Technologies, Inc.

Date: June 3, 2022

https://kci365-my.sharepoint.com/personal/todd\_mohler\_kci\_com/Documents/Desktop/nightly briefcase/LRECD/[2022\_0603 LRECD Master Budget Opinion.xlsx]OPINION OF CONSTRUCTION COST

tps://kci365-my.share; Item	Description	Qty	U.O.M.	Unit Price	Extended Price
	•				
	SITE REMEDIATION			Subtotal	\$780,717.
	QUIREMENTS				
	nds and Insurance	4			
	bilization / Demobilization	-			
M.O		-			
	sion Control / NPDES General Use Permit / BMP nstruction Layout/Survey	- 1	LS	\$65,059.78	\$65,059.78
	terial Testing / Densities/ Soil Boring	-			
	mits	-			
	11113	-			
	ID GRUBBING			Subtotal	\$40,000
	Demolition, Invasive exotic removals	2.0	AC	\$20,000.00	\$40.000
				+==,====	
ARTHWORK		<u>~</u> ^		Subtotal	\$455,100
Spe	ecial Fill (Offsite Sand & Organic Wetland Fill)	3900	CY	\$34.00	\$132,600
	classified Excavation (Excavation, Compaction, and	40000	<u></u>		
	cement)	43000	CY	\$7.50	\$322,500
/ETLAND				Subtotal	\$120,497
	st. Wetland clean/augment	1	LS	\$20,000.00	\$20,000
	omerged	7423	SF	\$2.00	\$14,846
	ergent plants	43203	SF	\$0.60	\$25,921
Terr	restrial	15939	SF	\$3.33	\$53,130
Tree	es	22	EA	\$300.00	\$6,600
RAINAGE				Subtotal	\$35,000
Fixe	ed Weir Outfall	1	LS	\$35,000.00	\$35,000
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	6 Contingency		LS		\$65,059.
10%	6 Contingency SITE DEVELOPMENT		LS	\$65,059.78 Subtotal	\$65,059. <b>\$3,766,701</b> .
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ENERAL REC Bon Mot Con Con Mat Perr TILITIES	6 Contingency  SITE DEVELOPMENT  QUIREMENTS  ads and Insurance  bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP  astruction Layout/Survey terial Testing / Densities/ Soil Boring mits		LS	\$313,891.79	\$3,766,701 \$313,891.79 \$746,702
ENERAL REC Bon Mot Eros Con Mat Perr TILITIES Don	6 Contingency  SITE DEVELOPMENT  QUIREMENTS  ads and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP astruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire		LS	\$313,891.79 \$314,891.79 \$274,875.00	\$3,766,701 \$313,891.79 \$746,702 \$274,875
ENERAL REC Bon Mob Eros Con Mat Perr TILITIES Don San	SITE DEVELOPMENT  QUIREMENTS  Ids and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP Instruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire hitary Sewer		LS LS LS LS	\$313,891.79 \$313,891.79 \$274,875.00 \$323,200.00	\$3,766,701 \$313,891.79 \$746,702 \$274,875 \$323,200
ENERAL REC Bon Mob Eros Con Mat Perr TILITIES Don San	6 Contingency  SITE DEVELOPMENT  QUIREMENTS  ads and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP astruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire		LS	\$313,891.79 \$314,891.79 \$274,875.00	\$3,766,701 \$313,891.79 \$746,702 \$274,875
ENERAL REC Bon Mot Eros Con Mat Perr TILITIES Don San Elec	SITE DEVELOPMENT  QUIREMENTS  Ids and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP Instruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire hitary Sewer		LS LS LS LS	\$313,891.79 \$313,891.79 \$274,875.00 \$323,200.00 \$148,627.20	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627
ENERAL REC Bon Mob Eros Con Mat Perr TILITIES TILITIES San Elec RAINAGE	6 Contingency  SITE DEVELOPMENT  QUIREMENTS  ads and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP  nstruction Layout/Survey terial Testing / Densities/ Soil Boring mits  nestic Water and Fire hitary Sewer ctrical/Communications Service		LS LS LS LS LS LS	\$313,891.79 \$313,891.79 \$313,891.79 \$274,875.00 \$323,200.00 \$148,627.20 \$Ubtotal	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$115,000
ENERAL REC Bon Mot Eros Con Mat Perr TILITIES TILITIES Don San Elec RAINAGE	6 Contingency  SITE DEVELOPMENT  QUIREMENTS  adds and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP sstruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire hitary Sewer cctrical/Communications Service  wwall		LS LS LS LS LS LS EA	\$313,891.79 \$313,891.79 \$323,200.00 \$323,200.00 \$148,627.20 \$148,627.20 \$148,627.20 \$148,627.20	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$148,627 \$148,627 \$148,627
ENERAL REC Bon Mob Eros Con Mat Perr TILITIES TILITIES San Elec RAINAGE End Cato	6 Contingency  SITE DEVELOPMENT  QUIREMENTS  adds and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP struction Layout/Survey terial Testing / Densities/ Soil Boring mits  nestic Water and Fire hitary Sewer ctrical/Communications Service  dwall ch Basin		LS LS LS LS LS EA EA	Subtotal           \$ubtotal           \$313,891.79           \$313,891.79           \$323,200.00           \$148,627.20           \$ubtotal           \$6,000.00           \$4,000.00	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$115,000 \$6,000 \$4,000
ENERAL REC Bon Mob Eros Con Mat Perr TILITIES TILITIES Elec RAINAGE End Cato Stor	6 Contingency  SITE DEVELOPMENT  QUIREMENTS  Inds and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP Instruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire hitary Sewer ctrical/Communications Service  Mwall ch Basin rm Pipe		LS LS LS LS EA EA LF	\$313,891.79 \$313,891.79 \$323,200.00 \$323,200.00 \$148,627.20 \$148,627.20 \$148,627.20 \$148,627.20	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$115,000 \$6,000 \$4,000 \$40,000
ENERAL REC Bon Mot Eros Con Mat Perr TILITIES TILITIES TILITIES RAINAGE RAINAGE End Cato Stor Fore	6 Contingency  SITE DEVELOPMENT  QUIREMENTS  adds and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP struction Layout/Survey terial Testing / Densities/ Soil Boring mits  nestic Water and Fire hitary Sewer ctrical/Communications Service  dwall ch Basin		LS LS LS LS LS EA EA EA LF LS	Subtotal           Subtotal           \$313,891.79           \$313,891.79           \$323,200.00           \$148,627.20           Subtotal           \$6,000.00           \$4,000.00           \$400.00           \$25,000.00	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$115,000 \$40,000 \$40,000 \$25,000
ENERAL REC Bon Mot Eros Con Mat Perr TILITIES TILITIES Con Bon San Elec RAINAGE End Catt Stor Fore Bios	SITE DEVELOPMENT  QUIREMENTS  Inds and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP Instruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire hitary Sewer ctrical/Communications Service  Maall ch Basin rm Pipe ebay		LS LS LS LS EA EA LF	Subtotal           Subtotal           \$313,891.79           \$313,891.79           \$323,200.00           \$148,627.20           Subtotal           \$6,000.00           \$4,000.00           \$400.00	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$115,000 \$40,000 \$40,000 \$40,000 \$25,000 \$10,000
ENERAL REC Bon Mot Eros Con Mat Perr TILITIES Don San Elec Elec San Elec San Elec San Elec San Elec San Elec San Elec San Elec Stor Stor Stor Stor Stor Stor Stor Stor	SITE DEVELOPMENT  QUIREMENTS  Inds and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP Instruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire hitary Sewer ctrical/Communications Service  Mwall ch Basin rm Pipe ebay swales		LS LS LS LS LS EA EA EA LF LS LS	Subtotal           Subtotal           \$313,891.79           \$313,891.79           \$323,200.00           \$148,627.20           Subtotal           \$6,000.00           \$400.00           \$25,000.00           \$10,000.00	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$115,000 \$6,000 \$40,000 \$40,000 \$40,000 \$25,000 \$10,000 \$10,000
ENERAL REC Bon Mot Eros Con Mat Perr TILITIES Don San Elec Elec San Elec San Elec San Elec San Elec San Elec San Elec San Elec Stor Stor Stor Stor Stor Stor Stor Stor	6 Contingency  SITE DEVELOPMENT  QUIREMENTS  adds and Insurance  bilization / Demobilization  .T.  sion Control / NPDES General Use Permit / BMP  nstruction Layout/Survey  terial Testing / Densities/ Soil Boring  mits  nestic Water and Fire hitary Sewer ctrical/Communications Service  dwall  ch Basin  rm Pipe ebay swales n Garden		LS LS LS LS LS EA EA EA LF LS LS LS	Subtotal           Subtotal           \$313,891.79           \$313,891.79           \$274,875.00           \$323,200.00           \$148,627.20           Subtotal           \$6,000.00           \$400.00           \$400.00           \$10,000.00           \$10,000.00	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$115,000 \$6,000 \$40,000 \$40,000 \$40,000 \$25,000 \$10,000 \$10,000
ENERAL REC Bon Mob Eros Con Mat Perr TILITIES TILITIES RAINAGE RAINAGE RAINAGE Bios Rair Fore Bios Rair	6 Contingency  SITE DEVELOPMENT  QUIREMENTS  adds and Insurance  bilization / Demobilization  .T.  sion Control / NPDES General Use Permit / BMP  nstruction Layout/Survey  terial Testing / Densities/ Soil Boring  mits  nestic Water and Fire hitary Sewer ctrical/Communications Service  dwall  ch Basin  rm Pipe ebay swales n Garden		LS LS LS LS LS EA EA EA LF LS LS LS	Subtotal           Subtotal           \$313,891.79           \$313,891.79           \$274,875.00           \$323,200.00           \$148,627.20           Subtotal           \$6,000.00           \$400.00           \$400.00           \$10,000.00           \$10,000.00	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$115,000 \$6,000 \$40,000 \$40,000 \$40,000 \$40,000 \$10,000 \$10,000 \$10,000
ENERAL REC Bon Mob Eros Con Mat Perr TILITIES TILITIES TILITIES RAINAGE RAINAGE Bios Rair Terr AVING	6 Contingency  SITE DEVELOPMENT  QUIREMENTS  adds and Insurance  bilization / Demobilization  .T.  sion Control / NPDES General Use Permit / BMP  nstruction Layout/Survey  terial Testing / Densities/ Soil Boring  mits  nestic Water and Fire hitary Sewer ctrical/Communications Service  dwall  ch Basin  rm Pipe ebay swales n Garden		LS LS LS LS LS EA EA EA LF LS LS LS	Subtotal           Subtotal           \$313,891.79           \$313,891.79           \$323,200.00           \$323,200.00           \$148,627.20           Subtotal           \$6,000.00           \$400.00           \$400.00           \$10,000.00           \$10,000.00           \$20,000.00	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$115,000 \$6,000 \$40,000
ENERAL REC Bon Mob Eros Con Mat Perr TILITIES TILITIES TILITIES RAINAGE RAINAGE RAINAGE Bios Rair Terr AVING	SITE DEVELOPMENT  QUIREMENTS  adds and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP astruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire hitary Sewer ctrical/Communications Service  wall ch Basin rm Pipe ebay swales n Garden raced Weirs  vers / Decorative Concrete		LS LS LS LS LS EA EA EA LF LS LS LS LS LS	Subtotal           Subtotal           \$313,891.79           \$313,891.79           \$323,200.00           \$323,200.00           \$148,627.20           \$6,000.00           \$400.00           \$400.00           \$10,000.00           \$10,000.00           \$20,000.00           \$20,000.00	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$140,000 \$25,000 \$10,000 \$10,000 \$20,000 \$20,000 \$10,000 \$20,000 \$20,000 \$20,000 \$10,000 \$20
ENERAL REC Bon Mob Eros Con Mat Perr TILITIES TILITIES TILITIES RAINAGE RAINAGE RAINAGE Rain Fore Bios Rair Terr AVING	SITE DEVELOPMENT  QUIREMENTS  adds and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP astruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire hitary Sewer ctrical/Communications Service  dwall ch Basin rm Pipe ebay swales n Garden raced Weirs  rers / Decorative Concrete ncrete Sidewalk - 4" Depth		LS LS LS LS LS LS LS LS LS LS LS LS LS SF	Subtotal           Subtotal           \$313,891.79           \$313,891.79           \$323,200.00           \$148,627.20           Subtotal           \$6,000.00           \$4,000.00           \$400.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$115,000 \$40,000 \$40,000 \$40,000 \$10,00
ID9% ENERAL REC Bon Mot Con Con Mat Fros Con Mat Fros Con San Elec RAINAGE Rain Fore Bios Rain Terr AVING Pav	SITE DEVELOPMENT  QUIREMENTS  adds and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP sstruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire hitary Sewer ctrical/Communications Service  dwall ch Basin rm Pipe ebay swales n Garden raced Weirs  rers / Decorative Concrete ncrete Sidewalk - 4" Depth balt Pavement Wearing Coase - 2" Depth		LS LS LS LS LS LS LS LS LS LS LS LS SF SY	Subtotal           Subtotal           \$313,891.79           \$313,891.79           \$313,891.79           \$323,200.00           \$148,627.20           \$148,627.20           \$6,000.00           \$4,000.00           \$400.00           \$25,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$115,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$10,000 \$10,000 \$10,000 \$10,000 \$20,000 \$10,000 \$20,000 \$10,000 \$10,000 \$10,000 \$20,000 \$10,000 \$20,000 \$10,000 \$20,000 \$10,000 \$20,000 \$10,000 \$20,000 \$10,000 \$20,000 \$10,000 \$20,000 \$10,000 \$20,000 \$10,000 \$20,00
ENERAL REC Bon Mob Eros Con Mat Perr TTILITIES TTILITIES TTILITIES Don San Elec San Elec Con San Elec Con San Elec Con San Elec Con Cato Stor Fore Bios Rair Terr AVING	SITE DEVELOPMENT  QUIREMENTS  adds and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP astruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire hitary Sewer ctrical/Communications Service  dwall ch Basin rm Pipe ebay swales n Garden raced Weirs  rers / Decorative Concrete ncrete Sidewalk - 4" Depth		LS LS LS LS LS LS LS LS LS LS LS SF SY TON SY	Subtotal           Subtotal           \$313,891.79           \$313,891.79           \$313,891.79           \$313,891.79           \$323,200.00           \$148,627.20           \$148,627.20           \$6,000.00           \$4,000.00           \$400.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00	\$3,766,701 \$313,891.79 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$115,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$1
IDON ENERAL REC Bon Mob M.C Eros Con Mat Perr TTILITIES Don San Elec Don San Elec Don San Elec Stor Fore Bios Rair Terr AVING Pav Con	SITE DEVELOPMENT  QUIREMENTS  adds and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP sstruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire hitary Sewer ctrical/Communications Service  dwall ch Basin rm Pipe ebay swales n Garden raced Weirs  rers / Decorative Concrete ncrete Sidewalk - 4" Depth chalt Pavement Wearing Coase - 2" Depth e Rock Base Course - 8" Depth		LS LS LS LS LS LS EA EA EA EA LS LS LS LS SF SY TON	Subtotal           Subtotal           \$313,891.79           \$313,891.79           \$313,891.79           \$323,200.00           \$323,200.00           \$148,627.20           \$323,200.00           \$148,627.20           \$4,000.00           \$4,000.00           \$400.00           \$25,000.00           \$10,000           \$10,000           \$10,000           \$10,000           \$140,000           \$31,00	\$3,766,701 \$313,891.79 \$746,702 \$274,875 \$323,200
ENERAL REC Bon Mot Eneros Con Mat Perr TILITIES Don San Elec Eneros San Elec San Elec San Fore Bios RainAGE Nor Aving Pav Con Asp Lime Pav Pav	SITE DEVELOPMENT  QUIREMENTS  adds and Insurance bilization / Demobilization D.T. sion Control / NPDES General Use Permit / BMP sstruction Layout/Survey terial Testing / Densities/ Soil Boring mits  mestic Water and Fire itary Sewer ctrical/Communications Service  dwall ch Basin rm Pipe ebay swales n Garden raced Weirs  vers / Decorative Concrete ccrete Sidewalk - 4" Depth bhalt Pavement Wearing Coase - 2" Depth e Rock Base Course - 8" Depth //ement Markings	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS LS LS LS LS LS LS LS LS LS LS LS SF SY TON SY LF	Subtotal           Subtotal           \$313,891.79           \$313,891.79           \$274,875.00           \$323,200.00           \$148,627.20           Subtotal           \$6,000.00           \$4,000.00           \$400.00           \$25,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$20,000.00           \$10,000.00           \$20,000.00           \$10,000.00           \$20,000.00           \$10,000.00           \$20,000.00           \$20,000.00           \$10,000.00           \$10,000.00           \$10,000.00           \$10,000           \$10,000           \$10,000           \$10,000           \$10,000           \$10,000           \$10,000           \$10,000 <t< td=""><td>\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$10,000 \$10,0</td></t<>	\$3,766,701 \$313,891.79 \$313,891.79 \$274,875 \$323,200 \$148,627 \$10,000 \$10,0

AMENITIES			Subtotal	\$1,325,500.00
Site Monument Signage		EA	\$10.000.00	\$10,000.00
History signage - near entry	1	LS	\$5,000.00	\$5,000.00
Educational signage - throughout site	1	LS	\$30,000.00	\$30,000.00
Rainfall Marker Garden	1	EA	\$20,000.00	\$20,000.00
Boardwalk	11350	SF	\$60.00	\$681,000.00
Boat Launch	1	EA	\$5,000.00	\$5,000.00
Firepit	1	EA	\$5,000.00	\$5,000.00
Fishing Pier	1	EA	\$59,500.00	\$59,500.00
Archery	1	EA	\$5,000.00	\$5,000.00
Amphitheater - seat walls	1	EA	\$54,150.00	\$54,150.00
Outdoor clasroom features	1	LS	\$20,000.00	\$20,000.00
Site path - ADA compliant	21600	SF	\$12.00	\$259,200.00
Site path - non-ADA compliant Woodland Trail	13500	SF	\$0.50	\$6,750.00
Water Fountain/Bottle Filler	3	EA	\$5,000.00	\$15,000.00
Bike Rack	20	EA	\$250.00	\$5,000.00
Fencing / Gates - Chain link vinyl coated	3650	LF	\$30.00	\$109,500.00
Vehicle Gates	1	EA	\$6,000.00	\$6,000.00
Trash Receptacle	10	EA	\$800.00	\$8,000.00
Picnic Tables	8	EA	\$800.00	\$6,400.00
Bench	15	EA	\$1,000.00	\$15,000.00
			, ,	, ,,
LANDSCAPE			Subtotal	\$281,071.65
Specimen /Trees Palms	32	EA	\$2,000.00	\$64,000.00
Trees	159	EA	\$800.00	\$127,189.33
Shrubs	2385	EA	\$20.00	\$47,696.00
Sod	98954	SF	\$0.30	\$29,686.32
Sabal relocation	50	EA	\$250.00	\$12,500.00
CONTINGENCY				
10% Contingency	1	LS	\$313,891.79	\$313,891.79
ENGAGEMENT CENTER			Subtotal	\$9,337,971.50
GENERAL REQUIREMENTS	<u> </u>			
Bonds and Insurance	_			
Mobilization / Demobilization	_			
M.O.T.	_			
Erosion Control / NPDES General Use Permit / BMP	_ 1	LS	\$778,164.29	\$778,164.29
Construction Layout/Survey	_			
Material Testing / Densities/ Soil Boring	_			
Permits				
	-			
			Subtotal	¢7 744 600 00
ARCHITECTURE			Subtotal	
Engagement Center - Interior space	5000	SF	\$400.00	\$2,000,000.00
Engagement Center - Interior space - Basic FF&E	5000	SF	\$400.00 \$10.00	\$2,000,000.00 \$50,000.00
Engagement Center - Interior space - Basic FF&E - Exterior covered areas	5000 1200	SF SF	\$400.00 \$10.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00
Engagement Center - Interior space - Basic FF&E - Exterior covered areas Aquaria - Interior space	5000 1200 3650	SF SF SF	\$400.00 \$10.00 \$200.00 \$400.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$1,460,000.00
Engagement Center - Interior space - Basic FF&E - Exterior covered areas Aquaria - Interior space - Basic FF&E	5000 1200 3650 3650	SF SF SF SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$1,460,000.00 \$36,500.00
Engagement Center - Interior space - Basic FF&E - Exterior covered areas Aquaria - Interior space - Basic FF&E Maintenance - Interior space	5000 1200 3650 3650 1600	SF SF SF SF SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$400.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$1,460,000.00 \$36,500.00 \$640,000.00
Engagement Center - Interior space - Basic FF&E - Exterior covered areas Aquaria - Interior space - Basic FF&E Maintenance - Interior space - Basic FF&E	5000 1200 3650 3650 1600 1600	SF SF SF SF SF SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$400.00 \$10.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$1,460,000.00 \$36,500.00 \$640,000.00 \$16,000.00
Engagement Center - Interior space - Basic FF&E - Exterior covered areas Aquaria - Interior space - Basic FF&E Maintenance - Interior space - Basic FF&E - Exterior covered areas	5000 1200 3650 3650 1600 1600 2800	SF SF SF SF SF SF SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$10.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$1,460,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$560,000.00
Engagement Center - Interior space         Basic FF&E         Exterior covered areas         Aquaria       - Interior space         Basic FF&E         Maintenance       - Interior space         Basic FF&E         Control of the space         Basic FF&E         Volunteers       - Interior space	5000 1200 3650 3650 1600 1600 2800 1200	SF SF SF SF SF SF SF SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$10.00 \$200.00 \$400.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$1,460,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$560,000.00 \$480,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Volunteers       - Interior space         - Exterior covered areas         Volunteers       - Interior space         - Basic FF&E	5000           1200           3650           1600           1800           1200           1200           1200           1200	SF SF SF SF SF SF SF SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$1,460,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$560,000.00 \$480,000.00 \$12,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Volunteers       - Interior space         - Basic FF&E         - Exterior covered areas         Volunteers       - Interior space         - Basic FF&E         - Exterior covered areas         Volunteers       - Interior space         - Basic FF&E         - Exterior covered areas	5000           1200           3650           1600           1800           1200           1200           3650           3650           3650           3650           3650           3650           1200           300	SF SF SF SF SF SF SF SF SF SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$560,000.00 \$480,000.00 \$12,000.00 \$60,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Volunteers       - Interior space         - Basic FF&E         - Exterior covered areas         Volunteers         - Basic FF&E         - Exterior covered areas         Classrooms         - Interior space	5000           1200           3650           3650           1600           2800           1200           300           2500	SF SF SF SF SF SF SF SF SF SF SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$400.00 \$400.00 \$400.00 \$400.00 \$400.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$560,000.00 \$480,000.00 \$12,000.00 \$12,000.00 \$11,000,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Volunteers       - Interior space         - Basic FF&E         - Exterior covered areas         Volunteers         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas	5000           1200           3650           3650           1600           1200           1200           1200           1200           1200           2800           1200           2500	SF SF SF SF SF SF SF SF SF SF SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$10.00 \$10.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$480,000.00 \$12,000.00 \$12,000.00 \$11,000,000.00 \$25,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         - Basic FF&E         - Basic FF&E         - Basic FF&E         - Sterior covered areas         Volunteers         - Interior space         - Exterior covered areas         Classrooms         - Interior space         - Exterior covered areas         Classrooms         - Basic FF&E         - Exterior covered areas         Classrooms         - Basic FF&E         - Exterior covered areas         Classrooms         - Exterior covered areas	5000           1200           3650           3650           1600           1200           1200           1200           2800           2500           2500           500	SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$200.00 \$400.00 \$10.00 \$200.00 \$10.00 \$200.00 \$200.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$480,000.00 \$480,000.00 \$12,000.00 \$11,000,000.00 \$25,000.00 \$100,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Volunteers       - Interior space         - Exterior covered areas         Volunteers       - Interior space         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Exterior covered areas         Classrooms       - Covered Open Air	5000           1200           3650           3650           1600           1800           1200           300           2500           500           1500	SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$200.00 \$400.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$480,000.00 \$480,000.00 \$12,000.00 \$1,000,000.00 \$1,000,000.00 \$100,000.00 \$300,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         - Exterior covered areas         Volunteers       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Exterior covered areas         Classrooms       - Interior space         - Exterior covered areas         Classrooms       - Covered Open Air         Boathouse with bathrooms	5000           1200           3650           3650           1600           1200           1200           1200           300           2500           500           1500           1200	SF           SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$200.00 \$200.00 \$400.00 \$400.00 \$400.00 \$200.00 \$200.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$480,000.00 \$12,000.00 \$12,000.00 \$12,000.00 \$1,000,000.00 \$100,000.00 \$300,000.00 \$480,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         - Exterior covered areas         Volunteers       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Covered areas         Classrooms       - Covered Open Air         Boathouse with bathrooms       - Exterior covered areas	5000           1200           3650           3650           1600           2800           1200           300           2500           500           1500           300           300           300           300           300           300           300           300           300           300           300	SF           SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$400.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$480,000.00 \$12,000.00 \$12,000.00 \$1,000,000.00 \$100,000.00 \$300,000.00 \$480,000.00 \$300,000.00 \$480,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         - Exterior covered areas         Volunteers       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Covered open Air         Boathouse with bathrooms         - Exterior covered areas         Chickee Hut (@ Entry/Archery, Fishing Pier, Boardwalk)	5000           1200           3650           3650           1600           2800           1200           300           2500           500           1500           300           300           300           300           300           300           300           300           300           300           300           300           300	SF           SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$400.00 \$400.00 \$400.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$16,000.00 \$480,000.00 \$12,000.00 \$1,000,000.00 \$100,000.00 \$100,000.00 \$300,000.00 \$480,000.00 \$180,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         - Exterior covered areas         Volunteers       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Exterior covered areas         Classrooms       - Covered Open Air         Boathouse with bathrooms       - Exterior covered areas	5000           1200           3650           3650           1600           2800           1200           300           2500           500           1500           300           300           300           300           300           300           300           300           300           300           300	SF           SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$400.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$16,000.00 \$480,000.00 \$12,000.00 \$1,000,000.00 \$100,000.00 \$100,000.00 \$300,000.00 \$480,000.00 \$180,000.00
Engagement Center - Interior space         Basic FF&E         Aquaria       Interior space         Basic FF&E         Maintenance       Interior space         Basic FF&E         Maintenance       Interior space         Basic FF&E         Volunteers       Interior space         Basic FF&E         Classrooms       Interior space         Basic FF&E         Classrooms       Interior space         Basic FF&E         Classrooms       Interior space         Boathouse with bathrooms         Exterior covered areas         Classrooms       Covered Open Air         Boathouse with bathrooms         Exterior covered areas         Chickee Hut (@ Entry/Archery, Fishing Pier, Boardwalk)         Dumpster	5000           1200           3650           3650           1600           2800           1200           300           2500           500           1500           300           300           300           300           300           300           300           300           300           300           300           300	SF           SF	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$400.00 \$400.00 \$400.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$16,000.00 \$480,000.00 \$12,000.00 \$12,000.00 \$1,000,000.00 \$100,000.00 \$300,000.00 \$480,000.00 \$480,000.00 \$480,000.00 \$180,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         - Exterior covered areas         Volunteers       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Covered Open Air         Boathouse with bathrooms         - Exterior covered areas         Chickee Hut (@ Entry/Archery, Fishing Pier, Boardwalk)         Dumpster         The above square foot (SF) amounts include the cost of the building with	5000           1200           3650           3650           1600           12800           1200           2800           1200           300           2500           500           1500           1200           300           1200           300           300           300           300           300           300           3           1	SF SF SF SF SF SF SF SF SF SF SF SF SF S	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$400.00 \$400.00 \$400.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$16,000.00 \$480,000.00 \$12,000.00 \$12,000.00 \$1,000,000.00 \$100,000.00 \$300,000.00 \$480,000.00 \$480,000.00 \$480,000.00 \$180,000.00
Engagement Center - Interior space         Basic FF&E         Aquaria       Interior space         Basic FF&E         Maintenance       Interior space         Basic FF&E         Maintenance       Interior space         Basic FF&E         Volunteers       Interior space         Basic FF&E         Classrooms       Interior space         Basic FF&E         Classrooms       Interior space         Basic FF&E         Classrooms       Interior space         Boathouse with bathrooms         Exterior covered areas         Classrooms       Covered Open Air         Boathouse with bathrooms         Exterior covered areas         Chickee Hut (@ Entry/Archery, Fishing Pier, Boardwalk)         Dumpster	5000           1200           3650           3650           1600           1200           1200           2800           1200           300           2500           500           1500           1200           300           2500           500           1500           1200           300           2500           500           1200           300           3           1           math basic level of imment, special finition	SF SF SF SF SF SF SF SF SF SF SF SF SF S	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$400.00 \$400.00 \$400.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$16,000.00 \$480,000.00 \$12,000.00 \$12,000.00 \$1,000,000.00 \$100,000.00 \$300,000.00 \$480,000.00 \$480,000.00 \$480,000.00 \$180,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         - Exterior covered areas         Volunteers       - Interior space         - Exterior covered areas         Classrooms       - Interior space         - Exterior covered areas         Classrooms       - Interior space         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E       - Exterior covered areas         Classrooms       - Covered Open Air         Boathouse with bathrooms       - Exterior covered areas         Chickee Hut (@ Entry/Archery, Fishing Pier, Boardwalk)         Dumpster       -         The above square foot (SF) amounts include the cost of the building wit includes an allowance for basic furniture, but does not include any equit casework, specialty mechanical, electrical, plumbing or lighting systems	5000           1200           3650           3650           1600           1200           1200           2800           1200           300           2500           500           1500           1200           300           2500           500           1500           1200           300           2500           500           1200           300           3           1           math basic level of imment, special finition	SF SF SF SF SF SF SF SF SF SF SF SF SF S	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00 \$15,000.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$16,000.00 \$480,000.00 \$12,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$300,000.00 \$480,000.00 \$180,000.00 \$15,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         - Exterior covered areas         Volunteers       - Interior space         - Exterior covered areas         Classrooms       - Interior space         - Exterior covered areas         Classrooms       - Interior space         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E       - Exterior covered areas         Classrooms       - Covered Open Air         Boathouse with bathrooms       - Exterior covered areas         Chickee Hut (@ Entry/Archery, Fishing Pier, Boardwalk)         Dumpster       -         The above square foot (SF) amounts include the cost of the building wit         includes an allowance for basic furniture, but does not include any equity         casework, specialty mechanical, electrical, plumbing or lighting systems         LANDSCAPE	5000           1200           3650           3650           1600           1200           2800           1200           300           2500           500           1500           1200           300           2500           500           1500           1200           300           1           a basic level of i           and fixtures.	SF SF SF SF SF SF SF SF SF SF SF SF SF S	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00 \$15,000.00 \$15,000.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$4640,000.00 \$16,000.00 \$16,000.00 \$12,000.00 \$12,000.00 \$12,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$15,000.00 \$180,000.00 \$180,000.00 \$15,000.00 \$15,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Volunteers       - Interior space         - Exterior covered areas         Volunteers       - Interior space         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Interior space         - Basic FF&E         - Exterior covered areas         Classrooms       - Covered Open Air         Boathouse with bathrooms         - Exterior covered areas         Chickee Hut (@ Entry/Archery, Fishing Pier, Boardwalk)         Dumpster         The above square foot (SF) amounts include the cost of the building wit         includes an allowance for basic furniture, but does not include any equip (casework, specialty mechanical, electrical, plumbing or lighting systems         LANDSCAPE       Specimen /Trees Palms	5000           1200           3650           3650           1600           1200           1200           1200           1200           1200           300           2500           500           1500           1200           300           2500           500           1500           1200           300           3           1           math abasic level of imits and fixtures.           8	SF SF SF SF SF SF SF SF SF SF SF SF SF EA EA EA EA EA	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$400.00 \$400.00 \$400.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00 \$200.00 \$15,000.00 \$15,000.00 \$15,000.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$4640,000.00 \$16,000.00 \$16,000.00 \$12,000.00 \$12,000.00 \$12,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$15,000.00 \$180,000.00 \$15,000.00 \$15,000.00 \$15,000.00 \$15,000.00 \$15,000.00 \$15,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Volunteers       - Interior space         - Exterior covered areas         Volunteers       - Interior space         - Exterior covered areas         Classrooms       - Covered Open Air         Boathouse with bathrooms       - Exterior covered areas         Chickee Hut (@ Entry/Archery, Fishing Pier, Boardwalk)         Dumpster         The above square foot (SF) amounts include the cost of the building wit         includes an allowance for basic furniture, but does not include any equip casework, specialty mechanical, electrical, plumbing or lighting systems         LANDSCAPE       Specimen /Trees Palms	5000           1200           3650           3650           1600           1200           2800           1200           300           2500           500           1500           1200           300           2500           500           1500           1200           300           2500           500           1500           1200           300           3           1           math           abasic level of initiand fixtures.           8           40	SF SF SF SF SF SF SF SF SF SF SF SF SF EA EA EA EA EA	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$200.00 \$400.00 \$200.00 \$200.00 \$200.00 \$15,000.00 \$15,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$20,000 \$200,0000 \$200,0000 \$200,0000 \$200,0000 \$200,0000 \$200,0000 \$200,00000 \$200,00000 \$200,0000 \$200,0000 \$200,0000000000	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$640,000.00 \$16,000.00 \$16,000.00 \$12,000.00 \$12,000.00 \$12,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$15,000.00 \$10,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         - Basic FF&E         - Exterior covered areas         Volunteers       - Interior space         - Exterior covered areas         Classrooms       - Covered Open Air         Boathouse with bathrooms       - Exterior covered areas         Chickee Hut (@ Entry/Archery, Fishing Pier, Boardwalk)         Dumpster         The above square foot (SF) amounts include the cost of the building wit         includes an allowance for basic furniture, but does not include any equip casework, specialty mechanical, electrical, plumbing or lighting systems         LANDSCAPE       Specimen /Trees Palms         Trees       Shrubs	5000           1200           3650           3650           1600           1200           1200           1200           1200           1200           1200           1200           300           2500           500           1500           1200           300           2500           500           1500           1200           300 </td <td>SF SF SF SF SF SF SF SF SF SF SF SF SF S</td> <td>\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$400.00 \$200.00</td> <td>\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$40,000.00 \$16,000.00 \$16,000.00 \$480,000.00 \$12,000.00 \$12,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$15,000.00 \$15,000.00 \$180,000.00 \$180,000.00 \$180,000.00 \$180,000.00 \$1180,000.00</td>	SF SF SF SF SF SF SF SF SF SF SF SF SF S	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$400.00 \$200.00	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$40,000.00 \$16,000.00 \$16,000.00 \$480,000.00 \$12,000.00 \$12,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$15,000.00 \$15,000.00 \$180,000.00 \$180,000.00 \$180,000.00 \$180,000.00 \$1180,000.00
Engagement Center - Interior space         - Basic FF&E         - Exterior covered areas         Aquaria       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         Maintenance       - Interior space         - Basic FF&E         - Exterior covered areas         Volunteers       - Interior space         - Exterior covered areas         Classrooms       - Covered Open Air         Boathouse with bathrooms       - Exterior covered areas         Chickee Hut (@ Entry/Archery, Fishing Pier, Boardwalk)         Dumpster         The above square foot (SF) amounts include the cost of the building wit         includes an allowance for basic furniture, but does not include any equij         casework, specialty mechanical, electrical, plumbing or lighting systems         LANDSCAPE       Specimen /Trees Palms         Trees       Specimen /Trees Palms	5000           1200           3650           3650           1600           1200           2800           1200           300           2500           500           1500           1200           300           2500           500           1500           1200           300           2500           500           1500           1200           300           3           1           math           abasic level of initiand fixtures.           8           40	SF SF SF SF SF SF SF SF SF SF SF SF SF EA EA EA EA EA	\$400.00 \$10.00 \$200.00 \$400.00 \$10.00 \$10.00 \$200.00 \$400.00 \$10.00 \$200.00 \$400.00 \$200.00 \$200.00 \$400.00 \$200.00 \$200.00 \$200.00 \$15,000.00 \$15,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$22,000.00 \$20,000 \$200,0000 \$200,0000 \$200,0000 \$200,0000 \$200,0000 \$200,0000 \$200,00000 \$200,00000 \$200,0000 \$200,0000 \$200,0000000000	\$2,000,000.00 \$50,000.00 \$240,000.00 \$36,500.00 \$40,000.00 \$16,000.00 \$16,000.00 \$480,000.00 \$12,000.00 \$12,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$15,000.00 \$15,000.00 \$180,000.00 \$180,000.00 \$180,000.00 \$180,000.00 \$1180,000.00
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### LOXAHATCHEE RIVER DISTRICT



### 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
н	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
сс	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
сс	Jamaica Dr	11	Private Road Owners notified Oct 2012 Statutory Way Provision (2) – June 2021	2014	AEO
D	Loggerhead Park (institutional)	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 (north of Roebuck Road)	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
нн	Harbor Rd. S. LPSS	6	Notified Owners – January 2014-private road	2017	AEO
нн	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 (institutional) PX Commercial (commercial)	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		

\* Rank based upon "2010 Septic System Inventory & Assessment TBD = To be determined AEO = As easements are obtained 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

June 9, 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**

#### 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 June 9, 2022 No activity since April 22, 2022

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

Donovan Mackey and Dee Mackey, PlaintiffVs. 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. June 9, 2022, No activity since Adjuster assigned the claim Plaintiff cannot file suit until claim is denied. 768.28 (6)(b).

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 6months 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**

### <u>NONE</u>

### MORTGAGE OR LIEN FORECLOSURES / LRD COUNTERCLAIMS/CROSSCLAIMS NONE



### Loxahatchee River Environmental Control District Monthly Status Report June 1, 2022

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

The following is a summary of work performed by Baxter and Woodman, Inc. (B&W), on District projects for the monthly period ending June 1, 2022.

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

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

• District has made final payment; this Project will be removed from future Status Reports.

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

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

- Project Re-Mobilization meeting was held on May 19, 2022.
- Contractor to re-mobilize June 6, 2022. LRECD to provide confirmation that site is clear for contractor remobilization.
- Shutdown Planning meeting was held on May 25, 2022 onsite. Multiple shutdowns were discussed, Contractor to submit plans for review shortly.

### Lift Station Fall Protection Improvements

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

- All work of the original Contract (including the punch list) has been completed.
- The District recently requested safety grates for five more lift stations at the plant. GC is preparing a cost proposal for this additional work. Upon approval, a Change Order will be prepared, and the Contract will be extended approximately 12 weeks pending procurement time verification.

Respectfully Submitted by:

BAXTER & WOODMAN, INC.

Suce

Rebecca Travis, P.E. Executive Vice President / Florida Division Manager



### Loxahatchee River Environmental Control District CMA Project Status Update June 1, 2022

СМА	Name	Status				
Project/Proposal #						
PROPOSALS						
None						
PROJECTS						
494.001	BLM House Demolition and Reconstruction	<ul> <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>Proposed roof alternative design submitted to LRD for review (to address comments from SHPO)</li> </ul>				
494.002	2500 Jupiter Park Drive Conceptual Site Planning	<ul> <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> <li>Presented survey results and concept plans to Board</li> <li>Submitted data request to LRD for massing study</li> </ul>				

chenmoore.com



### HOLTZ CONSULTING ENGINEERS, INC.

270 South Central Boulevard, Suite 207, Jupiter, FL 33458 (561) 575 2005

### **MEMORANDUM**

То:	Kris Dean, PE, Deputy Director/Director of Engineering, Loxahatchee River Environmental Control District
From:	Christine Miranda, PE, Holtz Consulting Engineers, Inc.
Date:	June 9, 2022
Subject:	Loxahatchee River Environmental Control District Monthly Status Report

The following is a summary of work performed by Holtz Consulting Engineers, Inc. (HCE) on Loxahatchee River District projects through June 9, 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 has completed the hydraulic model. The final model and results discussed in a draft technical memorandum will be provided to the District on June 10, 2022.

### Lift Station Telemetry Improvements

• The recommendation of award to the lowest responsive and responsible bidder, Revere Control Systems, Inc., was made at the May board meeting. Upon execution of the construction contract, a preconstruction meeting will be scheduled, and construction can commence.

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

• HCE has reviewed additional submittals provided by the Contractor for acceptance and is currently working with the Contractor on requests for information. The Contractor has mobilized onto the project site and has commenced work. Current work includes point repairs to the existing gravity system, installation of new service laterals, and televising of existing service laterals scheduled to be lined.



### Jupiter Inlet Lighthouse Septic to Sewer Conversion

HCE staff has reviewed additional submittals provided by the Contractor. An onsite meeting was held with HCE, the Contractor, BLM, and Comcast on May 24, 2022 for the undergrounding of utilities on the project site. HCE has worked with the Town of Jupiter on the water main system design elements and permitting. HCE has also met with the Contractor on several occasions to review specific items for construction. The Contractor has had materials delivered on site and will be commencing construction activities on June 15, 2022. HCE has coordinated construction commencement with the archaeologist who will be performing cultural resources monitoring during the construction duration.

### **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

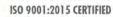
• The Contractor has stated they are waiting for equipment deliveries. Upon receipt of materials and equipment they will notify the team and provide a schedule for mobilization and construction activities.

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

• The crane manufacturer visited the project site on June 6, 2022 in order to take field measurements. 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

• No new activities have occurred for this work.





ENGINEERS · PLANNERS · SCIENTISTS · CONSTRUCTION MANAGERS

1425 W Cypress Creek Road, Suite 101 • Fort Lauderdale, FL 33309 • Phone 954-776-1616

### 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 31, 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. Developing preliminary civil engineering plans (Task 2.3) approximately 75% complete.
- 6. Landscape Architecture: Revising budget estimate in progress. Finalizing Preliminary Site Designs (Task 2.1) approximately 90% complete.
- 7. Architecture: No activity.



# Busch Wildlife Sanctuary

The 2nd Quarter Report will be presented at the July 2022 Board Meeting.





# **Director's Report**

- Admin. & Fiscal Report
- Engineering Report
- Operations Report
- Information Services Report
- Environmental Education
- Safety Report
- Other Matters (as needed)

- attach. #1
- attach. #2
- attach. #3
- attach. #4
- attach. #5
- attach. #6
- attach. #7





## 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

#### MEMORANDUM

To: Governing Board

From: Kara Fraraccio, Director of Finance and Administration

Date: June 10, 2022

Subject: Monthly Financial Report

#### Cash and Investments

Balance as of May 31, 2022 Certificates of Deposit:

	Original			Book		/lonthly nterest	Market
Institution	Term	Maturity	Rate	Value		Earned	Value
US Century	12 Months	08/04/22	0.25%	\$ 2,500,000	\$	532	\$ 2,505,142
US Century	12 Months	08/04/22	0.25%	2,500,000		532	2,505,142
Bank United	6 Months	09/12/22	0.10%	1,573,802		134	1,574,147
Bank United	12 Months	11/12/22	0.13%	1,054,256		116	1,055,011
Bank United	9 Months	11/22/22	0.40%	1,001,500		340	1,002,573
Bank United	12 Months	02/22/23	0.60%	1,001,500		509	1,003,109
Bank United	12 Months	02/22/23	0.60%	1,001,500		509	1,003,109
Subtotal				\$ 10,632,558	\$	2,672	\$ 10,648,233
Money Market Accounts:							
Synovus - Public Demand			0.06%		\$	376	\$ 7,374,198
TD Bank - NOW			0.15%			1,053	8,265,761
Subtotal					\$	1,429	\$ 15,639,959
Checking Account:							
SunTrust-Hybrid Business	Account		0.02%		\$	201	\$ 17,912,384
Subtotal					\$	201	\$ 17,912,384
Brokerage Accounts:					G	ain/Loss	
Vanguard GNMA ADM			-7.75%	\$ 540,272		(38,876)	\$ 501,396
Vanguard Short-Term Trea	surv		-3.39%	1.206.096		(39,547)	1,166,549
Vanguard Short-Term Inflat			-2.20%	205,574		(4,427)	201,147
Subtotal				\$ 1,951,942	\$	(82,850)	\$ 1,869,092
Total						(78,548)	46,069,668

Average weighted rate of return on investments is: -.07%

As of 5/31/22:

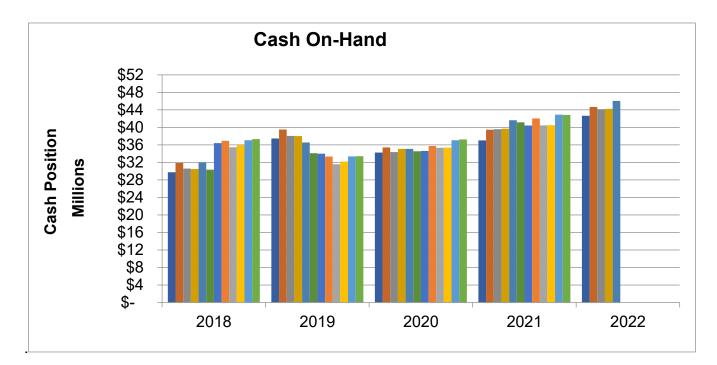
3 month Short Term Bond: .1.13% 1 month Federal Fund Rate: .83%

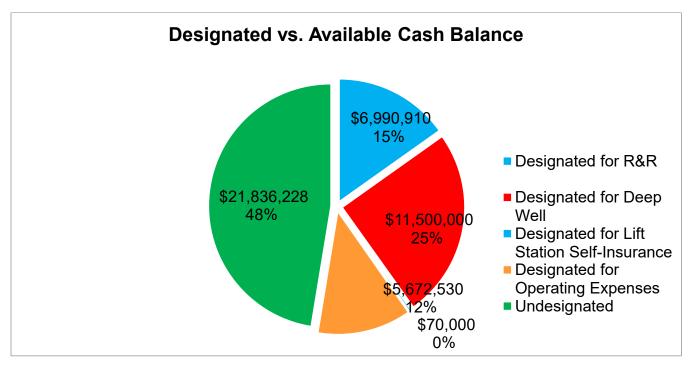
District brokerage accounts have underperformed due to abnormal market conditions and uncertainties with the Federal Reserve. However, the District is optimistic that losses will be recovered and that we have an optimized portfolio based on risk and cash flow needs.

Cash position for May 2021 was \$41,643,726. Current Cash position is up by \$4,425,942.

James D. Snyder CHAIRMAN Stephen B. Rockoff BOARD MEMBER Dr. Matt H. Rostock

Gordon Boggie





#### **Financial Information**

- Legal Fees billed in May were \$5,500. The fiscal year-to-date total is \$51,075.
- There was no Septage billing for the month of May.
- Developer's Agreement There were no new Developer Agreements in May.
- I.Q. Water Agreements Abacoa Plaza and Sophia are past due for the month of May.
- Estoppel fees collected in May totaled \$8,725. The fiscal year-to-date total is \$61,375.

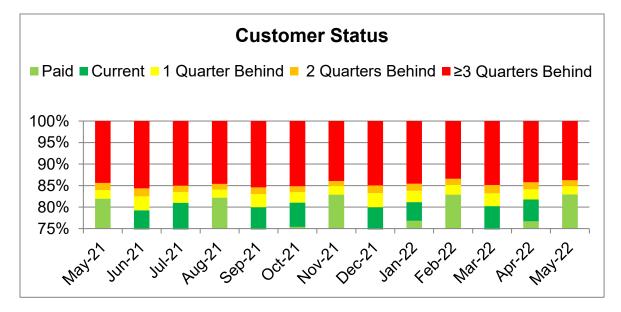
#### Summary of Budget vs. Actual

	Astrol							Budget	May-21
	Actual		Actual		Budget	(Uı	nfavorable)	Expended	YTD
\$		\$			\$17,100,000	\$		66.57%	\$11,116,145
	•				73,000			105.94%	62,483
	194,259		1,532,646		2,326,000		(793,354)	65.89%	1,518,713
	3,499		25,204		38,000		(12,796)	66.33%	25,446
	19,138		335,346		424,490		(89,144)	79.00%	243,640
	1,678,568		13,353,909		19,961,490		(6,607,581)	66.90%	12,966,427
\$	69,652	\$	1,244,429		1,188,997		55,432	104.66%	2,098,248
	19,573		124,271		287,000		(162,729)	43.30%	125,419
	55,423		423,715		898,000		(474,285)	47.18%	524,399
			637		800,000		(799,363)	0.08%	0
	144,648		1,793,052		3,173,997		(1,380,945)	56.49%	2,748,066
							•••••		
			351.500				351.500		
	22.658				613.000			90.53%	674,146
	,		,		,				674,146
\$	1,845,874	\$	16,053,404	\$	23,748,487	\$	(7,695,083)	67.60% \$	16,388,639
\$	463.093	\$	3.815.381		\$6.522.000	\$	2.706.619	58.50%	\$3,353,353
Ŧ	•	Ŧ				Ŧ			239,239
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							•		1,236,846
	111,701								1,200,010
	1 1// 200								9,261,122
	1,144,200		10,000,001		17,017,000		0,021,075	01.0370	5,201,122
\$	316 6/17	\$	1 876 475		10 537 513		8 661 038	17 81%	1,758,547
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\$	384,937	\$	3,781,028	\$	(3,806,606)	\$	7,587,634	\$	5,368,970
	\$ \$ \$ \$	9,384 194,259 3,499 19,138 1,678,568 \$ 69,652 19,573 55,423 144,648 22,658 22,658 22,658 \$ 1,845,874 \$ 463,093 33,907 62,224 117,678 3,242 86,002 107,869 36,700 118,811 114,764 1,144,290 \$ 316,647 316,647 \$ 1,460,937	9,384 194,259 3,499 19,138 1,678,568 \$ 69,652 \$ 19,573 55,423 144,648 22,658 22,658 \$ 1,845,874 \$ \$ 463,093 \$ 33,907 62,224 117,678 3,242 86,002 107,869 36,700 118,811 114,764 3,242 86,002 107,869 36,700 118,811 114,764 1,144,290 \$ 316,647 \$ 316,647 \$ 316	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					

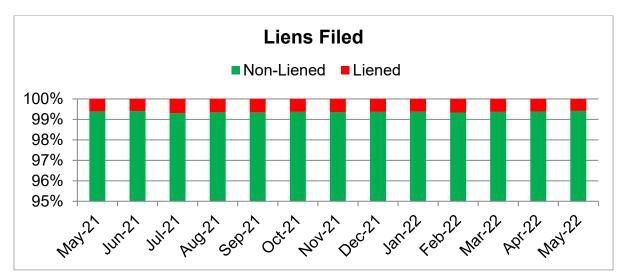
Total Capital expenses incurred and encumbered totalled \$9,449,545 or 90% of the capital budget. This includes funds encumbered in a prior fiscal year for projects that stretch across multiple fiscal years.

#### Accounts Receivable

The chart below illustrates customers' receivable status as a percentage of quarterly sewer billing. Paid or current balances represent approximately 83% billing.



The District serves approximately 33,120 customers. Currently, the District has 192 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.

#### Retirement Plan Administrative Committee Update

On June 7, 2022, the Retirement Plan Administrative Committee met in the Governing Board room to discuss the First Quarter Retirement Plan results. As of March 31, 2022, the Plan had 79 participants with participant assets totalling \$11,547,485. The majority of the Plan's balance continues to be in the Self-directed Brokerage accounts (69.7%); however, that percentage is expected to decline with new contributions coming in and going to the funds in the Core Line-up. For the fifth quarter in a row one fund in the Core Line-up is on the "Watch List:" American Funds Washington Mutual R6, due to long-term performance being below the index and median of the peer group for the 3 and 5-year periods. The Administrative Committee reviewed the funds' performance in 2022, noting that the fund is outperforming both the S&P 500 and the Nasdaq. The Administrative Committee recognized that while this fund is flagged for review, we have deemed the fund to still meet the fundamental credentials of the investment line up.

The Administrative Committee reviewed the U.S. Department of Labor's (DOL) guidance on Cryptocurrencies. The DOL advised plan fiduciaries "to exercise extreme caution" before including a cryptocurrency option or other products whose value is tied to cryptocurrencies as a plan's investment option for plan participants. The Administrative Committee passed the following motion:

"That the Administrative Committee direct Empower, the Investment Consultant, and Legal Counsel to determine the process to limit the participant's ability to invest in cryptocurrency due to the DOL's notice that these types of investments are not prudent for pension plans."



# 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

#### MEMORANDUM

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

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

DATE: June 4, 2022

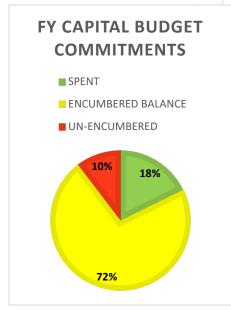
SUBJECT: Capital Program and Engineering Services Report

#### Capital Projects

#### Schedule (FLOAT = -39 Days)

The overall Capital Program schedule improved through May with Clarifier # 3 rebid and the Lift Station Telemetry projects being awarded. Moving the Control Panel Replacement project and the Vacuum Truck Dump Facility project forward will result in continued improvement through June and July.

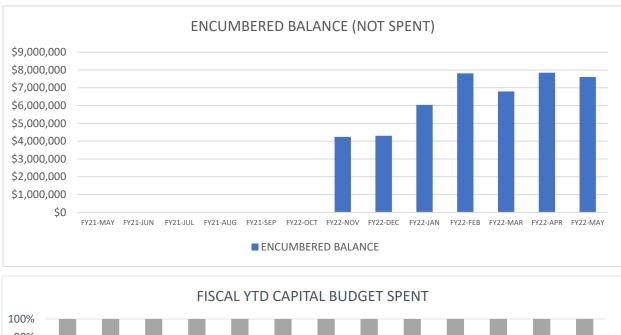
#### Budget



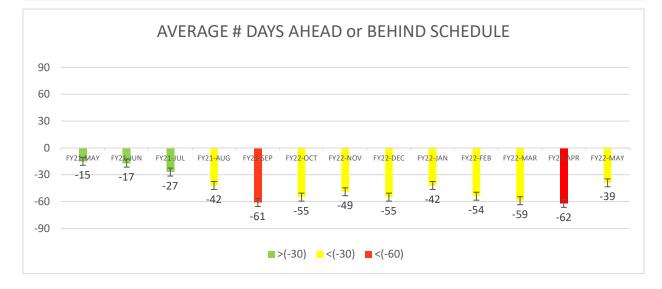
Staff continue working to bring scheduled projects online with the anticipation that the rate of spending will increase significantly as the encumbered balance increases. However, it should be noted that potential impacts from current supply chain issues are impacting lead times on materials for current 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

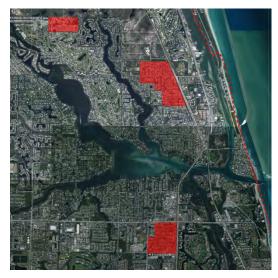
Water Reclamation - Environmental Education - River Restoration







#### 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 has mobilized and is working through LS018 collection system with an overall project schedule showing completion through LS041 and LS054 collection systems in the 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.

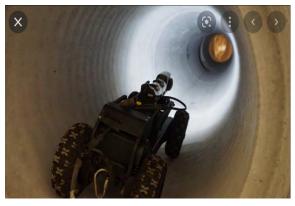
Staff are in design and permitting. This project will include a 2" low pressure force main, two single services with connection to the existing low pressure main in Palm Wood Dr.



#### PROJECT HIGHLIGHT

#### **Gravity System Rehabilitation**

In May, LSO18 System Rehabilitation Project R21001 mainline lining began. The mainlines are pre-inspected with CCTV equipment similar to the tracked camara shown to the right. The camara crawls through the sewer main inspecting each joint and locating all lateral connections to create a report used for classifying the main's condition and reinstating service laterals when the lining process is complete.

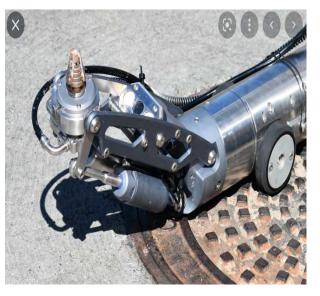




The liner consists of a precut and resin saturated fiberglass "bag" that is inverted through the host pipe using water pressure. Pressure is provided by using an adjustable tower situated over the access manhole from which a flexible hose is then connected to the liner and filled with water. The tower equipment is shown to the left. The water used to invert the liner is heated on site to activate the resin and initiate the curing process. Installation and curing typically take up to 4 hours.

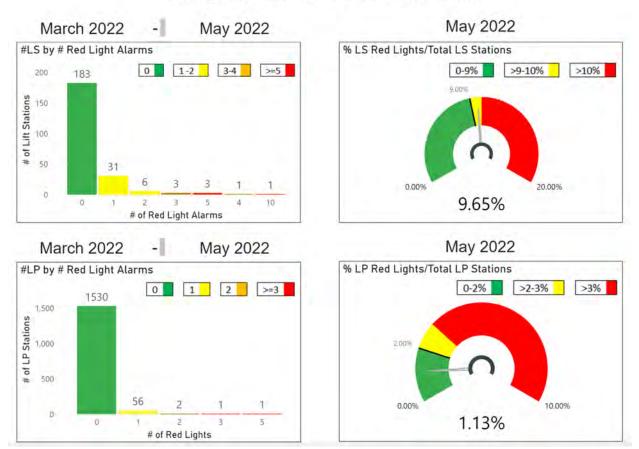
During the installation and curing process all customers connected to the section of main being lined are out of service. Once the main line has cured the service laterals are reinstated by cutting the liner at the mainline connections with a robotic cutter and camera similar to the one shown to the right.

The annular space between the liner and host pipe is then sealed at the manhole connections with moisture activated blended polyurethane injection resin.



#### COLLECTIONS AND REUSE DASHBOARD

*Lift Station Red Lights:* This month the system experienced 40 total red lights. 22 lift station red lights (with 4 stations experiencing multiple red light events) and 18 low pressure red lights (with 0 stations experiencing multiple red light events). Board members have requested trending be provided for lift station red lights. Staff are working on revisions to provide this.



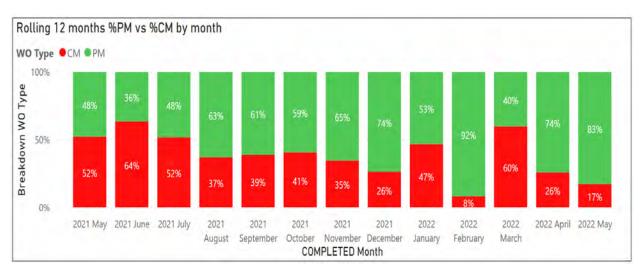
Emergency Call Work Orders Dashboard

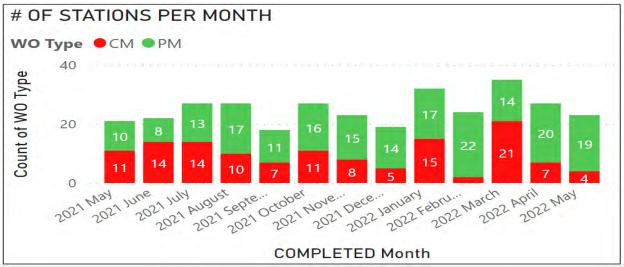
*Air Release Valves:* The ARV evaluation process has resulted in 115 ARVs inspected year to date (May 9, 2022). Of all inspected ARV's from beginning of reporting, January 2020, 104 are out of service. Board members have requested trending be provided for ARVs out of service. Staff are working on revisions to provide this.

#### MONTHLY ARV INSPECTIONS

Visits	E.			_						_	1 s	↓ 11 n ≫	078	Out of Service
Year	January	February	March	April	May	June	July	August	September	October	November	December	Total	and the second
2020	25	35	63	39	23	33	14	24	56	17	15	13	285	10/
2021	11	33	58	88	34	33	11	23	41	19	24	21	291	104
2022	5	20	23	30	33	8							115	1

*Wet Well Cleaning:* Unscheduled wetwell cleanings returned to a reasonable percentage this month after last month's increase. Unscheduled wetwell cleanings totaled 4 for the month.





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

There were 5 unauthorized discharges in the collection-transmissiondistribution system this month.

On May 10, 2022, the Loxahatchee River District (LRD) had an unauthorized discharge of 8 ounces of sewage from an air release valve (LS164-VLA06) located on Loxahatchee River Road in Jupiter, FL. The unauthorized discharge was caused by a failed air release valve seat. The unauthorized discharge was stopped by isolating the valve until repairs could be made. The unauthorized discharge discharge was confined to an air release valve box. The affected area was

disinfected with lime and all liquid was recovered. No known surface waters or storm drains were affected.

On May 11, 2022, the Loxahatchee River District (LRD) had an unauthorized discharge of 10 ounces of sewage from an air release valve (LS164-VLA05) located on Loxahatchee River Road in Jupiter, FL. The unauthorized discharge was caused by a failed air release valve seat. The unauthorized discharge was stopped by isolating the valve until repairs could be made. The unauthorized discharge discharge was confined to an air release valve box. The affected area was disinfected with lime and all liquid was recovered. No known surface waters or storm drains were affected.

On May 13, 2022, the Loxahatchee River District (LRD) had an unauthorized discharge of 5 gallons of sewage from a gravity system clean out (LS102-C0006) located on Perigon Way in Jupiter, FL. The unauthorized discharge was caused by a blockage in the gravity line. The unauthorized discharge was stopped by stopping service until the blockage was cleared. Of the unauthorized discharge 2.5 gallons was absorbed into the soil and 2.5 gallons was recovered with an LRD vacuum truck. The affected area was cleaned with potable water and disinfected with lime. No known surface waters or storm drains were affected.

On May 18, 2022, the Loxahatchee River District (LRD) had an unauthorized discharge of 2 gallons of sewage from a 6 inch force main (LS945-FM2) located on Beach Road in Tequesta, Fl. The unauthorized discharge was caused when liquid breached a plastic lined containment area installed during scheduled maintenance on the force main. The unauthorized discharge was stopped when containment was emptied using the pre-staged LRD vacuum trucks. The unauthorized discharge was absorbed into the soil. A vacuum truck was used to excavate the contaminated soil. No known storm drains or bodies of water were affected.

On May 18, 2022, the Loxahatchee River District (LRD) had an unauthorized discharge of 5 gallons of sewage at a private residence low pressure system wet well (LP0499-WW) located on Pennock Point Road, Jupiter, Fl. The unauthorized discharge was caused by the home's low pressure power breaker being turned off. The unauthorized discharge was stopped by LRD personnel by installing a temporary bypass pumping system until power could be restored to permanent system. The unauthorized discharge was absorbed into the soil in the immediate area around the wet well. The affected soil was disinfected with lime. 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

#### MEMORANDUM

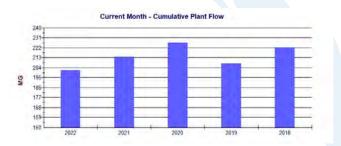
- TO: Albrey Arrington, Ph.D., Executive Director
- FROM: Jason A. Pugsley, P.E., Operations Plant Manager
- DATE: June 8, 2022

SUBJECT: May 2022 Operations Department Monthly Report

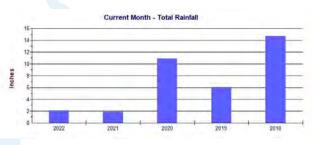
#### Treatment Plant Division/Maintenance Department

Overall, the month of May 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. During the month, influent flows to the plant trended downward which is likely due to seasonal customers departing for the summer. The plant did not experience any unauthorized discharges during the month May.

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



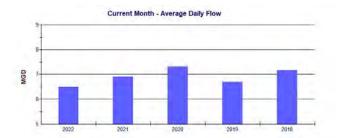
The Cumulative Influent Flow to the plant for the month of May was 201.54 million gallons. This is slightly less than the April flow of 212.57 million gallons.



2.06 inches of total rainfall was recorded at the plant site during the month of May. This is significantly less than the April rainfall recorded of 4.39 inches.

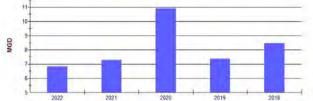
James D. Snyder CHAIRMAN Gordon M. Boggie BOARD MEMBER Stephen B. Rockoff BOARD MEMBER Dr. Matt H. Rostock BOARD MEMBER

Water Reclamation - Environmental Education - River Restoration



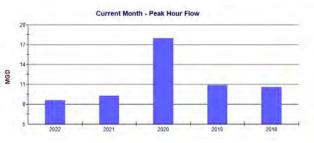
The Average Daily Flow (ADF) for the month of May was recorded at 6.50 MGD compared to 7.09 MGD during the month of April and 6.90 MGD during May 2021.





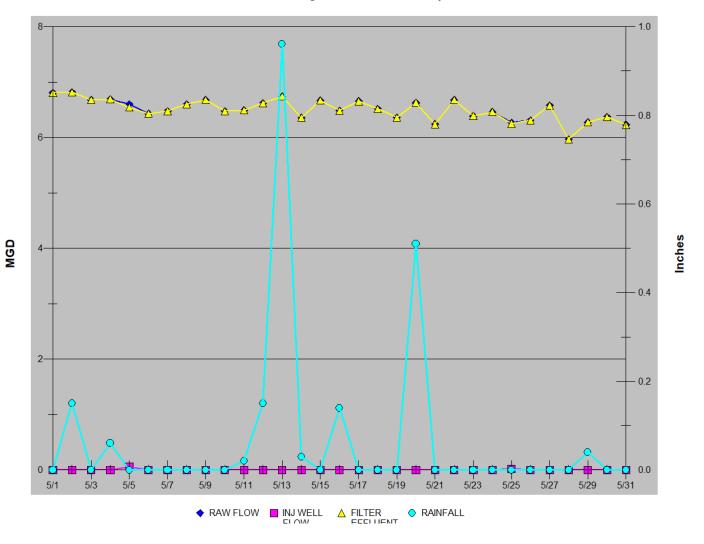
12

The Maximum Daily Flow (MDF) in May was 6.82 MGD. This is significantly less than the MDF for April of 8.32 MGD.



The Peak Hour Flow (PHF) for May was 5,965 GPM which equates to an equivalent daily rate of 8.59 MGD. This is a decrease when compared to the PHF for April of 7,340 GPM (10.57 MGD).

For the month of May, 99.96 % or 201.47 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 0.08 MG of blended effluent was diverted to the Deep Injection Well. The plant delivered a total of approximately 271.90 million gallons of IQ water to the reuse customers during the month of May.



Year to date (i.e., Calendar Year 2022), approximately 78.74% 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 990.76 million gallons.

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

#### **Treatment Plant:**

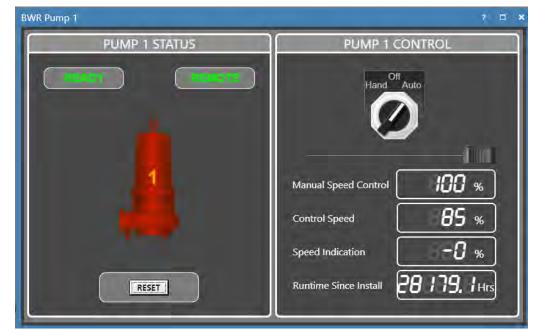
Operations Staff continued to work diligently to perform routine monitoring, sampling and general maintenance of equipment and structures. Staff also completed special projects during the month including evaluating potential options to manage pricing increases associated with the purchase of the polymer solution the District uses as part the biosolids dewatering process. The polymer is typically delivered via a tanker truck and offloaded directly to one of two bulk storage tanks located within the Solids Dewatering Building. Due to rising fuel prices and driver shortages the supplier indicated that bulk delivery at the contract price was not feasible and advised that the pricing for bulk delivery would be 26% higher. Staff confirmed with the supplier that polymer could still be purchased in 275-gallon tote containers at the contract price. Staff then worked with the supplier to determine the best equipment and procedure to transfer the polymer from the totes to the District's bulk storage tanks. Pumping of polymer needs to be completed in a specific manner to mitigate the shearing and activation of the polymer which could reduce its effectiveness. In the end, Staff successfully transferred all tote contents without issue. Based on the typical polymer usage, it is estimated that Staff was able to save approximately \$10,000.00 through the end of FY22.



Biosolids Dewatering – Polymer Transfer

During the month of May, Operations worked closely with the District's system integrator to complete specific process control upgrades within the plant's SCADA system to improve the operational control of the tertiary filter backwash return pumps. The improvements included the addition of manual pump control, pump speed indication and level control. These improvements have resulted in a significant decrease in pump run times and will aid in extending the operational longevity of the pumping units. Further, it will provide Operations with greater control of the rate at which filter backwash is returned to the secondary treatment

process.



Filter Backwash Pump – SCADA Improvements Photo 1

BWR Level Control	* <b>–</b> *
LEV	/EL
Level Setpoint	5.4 Ft
LEAD PUMP	LAG PUMP
Start Level 4,0 Ft	Start Level 7,5 Ft
Stop Level 3,0 Ft	Stop Level 5,5 Ft

Filter Backwash Pump – SCADA Improvements Photo 2

#### Maintenance Department:

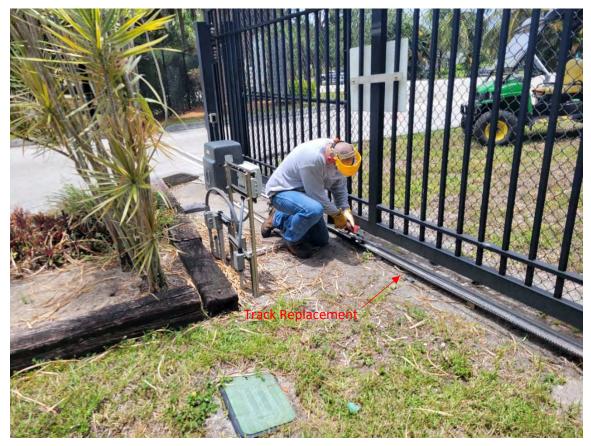
The Maintenance Department continued to efficiently perform planned maintenance (PM) tasks over the last monthly period. In addition to the completion of standard PM tasks the Maintenance Department addressed non-routine maintenance items as well as "special projects". A few examples of these types of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

The Maintenance Team completed necessary repairs to the combination loader utilized by the Construction Department. The repairs were completed in-house to expedite completion of the repairs and minimize downtime. Maintenance Team members removed the faulty hydraulic cylinders which actuate the bucket arms. The cylinders were rebuilt by a local vendor and reinstalled by Staff the next day. The ability to perform these types of repairs to critical equipment ensures that the District remains efficient in the completion of daily work tasks.



**Combination Loader Hydraulic Cylinder Repairs** 

During the month of May, the Maintenance Team also completed repairs to the main site access gate (Gate No. 1) located off Jupiter Park Drive. The gate is a decorative aluminium gate which rides along an angle track. The gate receives a significant amount of vehicular traffic from District Staff and site visitors which causes significant wear and tear on the gate components. As a result of the gate failing to operate properly, Maintenance Team members replaced sections of the gate track. The track sections were cut-out, levelled and welded back into place. Staff also replaced and aligned the guide wheels affixed to the bottom of the gate.



Gate No. 1 Track and Wheel Repairs

Lastly, Maintenance Team members began the process of completing repairs to specific components in advance of the major overhaul planned at Clarifier No. 3. Clarifier No. 3 will primarily be overhauled by an outside vendor, but to save costs the District is performing specific work tasks in-house. The in-house repairs include the replacement of sections of the current density baffle and removal of the stainless-steel rake arm squeegee in advance of in-house surface preparation and painting of the drive mechanism. To perform this work, which requires entry into the Clarifier No. 3 structure, the Maintenance Team coordinated with the District's Compliance Officer to ensure compliance with all confined space entry requirements.



Clarifier No. 3 – Preliminary Rehabilitation Work



## 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

#### MEMORANDUM

TO: Albrey Arrington, Ph.D., Executive Director
FROM: Bud Howard, Director of Information Services
DATE: June 9, 2022
SUBJECT: Information Services Monthly Governing Board Update for May 2022

#### WildPine Ecological Laboratory

#### **Riverkeeper Project**

In May, the lab staff and our partners collected water quality samples from 20 monitoring stations throughout the watershed. In addition, a total of 58 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 May 2022 scored "Good" with 84% of all samples meeting the EPA/DEP water quality criteria. This was slightly better than last month's score of 82% and slightly lower than last year's score for May of 88% (see score card below). In general, the water quality scores are typically better through the winter and spring months, corresponding with the dry season. The wet season kicked off with tropical storm Alex early in June and we will report its impact on our system to you next month.

When looking at specific water quality parameters for May, all parameters scored well. *Total Nitrogen* scored "Good" during May with 95% of sites meeting the water quality criteria, this was similar to last month's score of 96% and last year's score of 95%. *Total Phosphorus* also scored "Good" with 85% of sites meeting the criteria, up from last month's score of 81% and down from last year's 91%. *Chlorophyll*, which frequently struggles to meet the stringent water quality criteria, sharply improved this month from a "Poor" status of 48% last month to a "Good" score of 80%, and it was also better than last year's score of 64%. For the combined *Fecal Indicator Bacteria* (fecal coliforms in all waters, enterococci in marine and brackish waters and *E. coli* in fresh waters), May scores were "Good" at 81%, although lower than last month's and last year's score both at 91%.

James D. Snyder CHAIRMAN Gordon M. Boggie BOARD MEMBER BOARD MEMBER BOARD MEMBER Water Reclamation – Environmental Education – River Restoration



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	May	119	84%	21	95%	20	85%	20	80%	58	81%
2022	April	147	8296	26	96%	27	81%	27	48%	67	91%
2022	March	123	88%	16	100%	16	100%	16	58%	75	83%
2022	February	153	8696	26	88%	26	88%	26	85%	75	84%
2022	January	152	8896	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	700%6	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%
Total		1957	77%	331	95%	331	82%	331	60%	964	75%

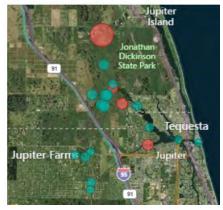
#### Spatial Distribution of Water Quality Results

Chlorophyll scored "Good" at 16 out of 20 sites in May. Station 111, a freshwater drainage canal in Jonathan Dickinson State Park (the large red dot in figure), had the highest value at 35  $\mu$ g/L. The other three "Poor" stations were in the estuary segment, which has a strict quality criterion (5.5  $\mu$ g/L). Estuary stations 65, 72 and 107 were between 6 and 9  $\mu$ g/L.

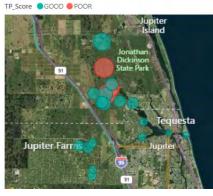
There were five stations in the state park boundary which could not be sampled because there was no observed flow due to very low water levels.

Chlorophyll a (ug/L)

CHL\_Score GOOD POOR

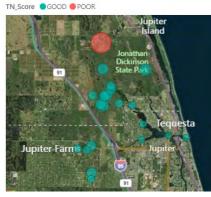


Total Phosphorus (mg/L)



Total Phosphorus scored "Good" at 17 out of 20 sites in May. The highest concentration was at Kitching Creek Station 108 in Jonathan Dickinson State Park at 0.14 mg/L. The other two "Poor" stations were in the upper estuary at Hobe Grove Ditch (HGD) and Station 65 and results were 0.14 and 0.10 mg/L respectively.

Total Nitrogen (mg/L)

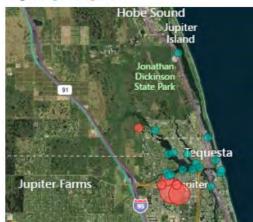


Total Nitrogen scored "Good" at all but one site in May. Like chlorophyll, Station 111, a freshwater drainage canal in Jonathan Dickenson State Park, had the highest value at 2.3 mg/L.

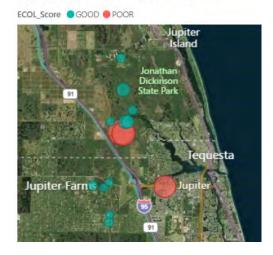
The fecal indicator bacteria results for the 2021/22 dry season continued to score generally "Good". Jones/Sims Creeks and Rivers Edge again scored "Poor" this month as they were each over the water quality criteria, with higher bacteria concentrations than prior months. For Enterococci (see map below left), the preferred indicator bacteria for saltwater, the Caloosahatchee culvert (CALC) in Jones Creek had the most enteric bacteria colonies at 6,488 MPN/100 mL. Toney Penna footbridge (TPJ), also in Jones Creek, had the second highest enteric count at 5,172 MPN/100 mL. In Sims Creek, the poorest station was at the mobile home park (Station 735) with 1,823 MPN/100 mL. Additionally, Rivers Edge (Station 107) again scored "Poor" at 455 MPN/100 mL. For E. coli (see map below right), the preferred indicator bacteria for freshwater, 3 stations were "Poor" this month when compared to FDEP's water quality criteria for E. coli. Cypress Creek (Station 100) in the Northwest Fork of the river had the highest E.coli concentration at 933 MPN/100 mL, which is more than twice as high as the water quality standard of 410 MPN/100 mL. A close second was just upstream at Trapper's site (Station 67) with 820 MPN/100 mL. Additionally, Sims Canal (Station 74) upstream of the Indiantown Road weir, was poor at 754 MPN/100 mL which is not unusual for this urban canal. June often brings a strong start to the wet season and is typically one of the rainiest months of the year, and this year is off to a wet start.

#### Enterococci Bacteria - Criteria: 130 MPN/100mL

ENT Score GOOD POOR



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



#### **Additional Studies**

The lab staff have been conducting some preliminary work in preparation for a new study we are planning to evaluate bacteria concentrations and longevity related to Jones Creek. This work will be in a more controlled outdoor setting at the lab using beakers, referred to as "mesocosm" studies.

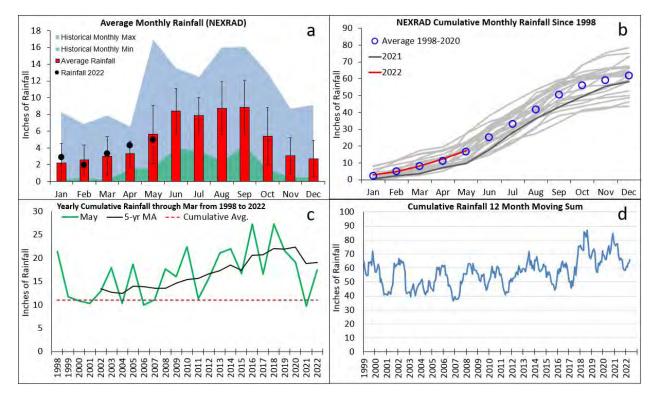
In the most recent set of preliminary testing, Rachel and Oneill (the new lab intern) collected extra samples of water and muck at Jones Creek from one of the sites that is notoriously high in fecal indicator bacteria. After muck and water samples were collected in the field, beakers were filled with different amounts of water and muck then the samples are tested for enterococci bacteria over time to evaluate the proliferation and survivorship of the bacteria. In subsequent experiments, we plan to test bacteria under a variety of scenarios of light, salinity, carbon, nutrients, aeration, and other factors. We anticipate that we will come out of these experiments with a much better understanding of the factors driving the high bacteria concentrations in Jones Creek and opportunities for improvement.



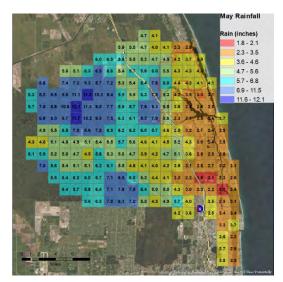
#### Hydrologic Monitoring

Rainfall for 2022 continues to generally follow historical averages. Rainfall measured across the watershed during May averaged 5.0" which is about 11% below the 5.6" historical average for the month (panel 'a' in figure below) but higher than the 2.7" monthly rainfall measured during May 2021. Rainfall was detected within the watershed during 20 days in May with the highest single-day total of 1.1" recorded on May 20.

Cumulative rainfall through May is 17.4", only 4% higher than the historical average of 16.7" (panel 'b' in figure below) and is substantially higher than during the same period last year which had 9.8" through May (panel 'c' in figure below). The rolling 12-month rainfall sum (June 2021 – May 2022) is 66.1" compared to 69.0" 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 ± 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 1.8" of rain to a maximum of 12.1" (Figure left). The rainfall is exhibiting the typical wet season distribution of rainfall where the highest amounts of rain are more inland and the driest regions are generally more in the coastal areas. This month, the areas of highest rainfall were over the Hungryland Wildlife Conservation Area (WCA) and portions of Loxahatchee Slough Natural Area. The driest regions included Juno, Abacoa, and portions of urbanized Jupiter located south of the estuary.

Despite slightly more rainfall over the previous month, river flows measured at Lainhart Dam decreased during May. River flows dropped below the 35 cfs Minimum Flow and Level (MFL) target with an average flow of 28 cfs and a range between 3 to 46 cfs (figure below). This

contrasts to the flow in April, which had a higher daily average of 42 cfs and range from 36 to 53 cfs and with the help of supplemental flows of about 16 cfs from Grassy Waters Preserve through the G-161 structure, was able to remain above the MFL. However, supplemental flows ceased on May 5 causing flow over Lainhart Dam to decrease sharply. Coinciding with the decreased flows over Lainhart Dam we observed a substantial increase in salinity measured at River Mile 9.1 where a peak mean salinity of 8.6 ppt was measured on May 15 while the 20-day rolling average of salinity (the MFL criteria) remained above the 2 ppt target for 16 consecutive days. We will discuss these flow reductions and MFL violations during this month's watershed status report.

#### **Oyster Spat Monitoring**

Oyster spat settlement evaluation indicated that oyster settlement activity is on the rise, though it remains below average for the month (figure below). In the Northwest Fork, average spat density was 2,248 spat m<sup>2</sup> with nearly all, or 90%, of the activity occurring at the downstream site. This was below the historical average of 5,851 spat m<sup>2</sup> for this period, but is an increase over the 498 spat m<sup>2</sup> counted last month and also higher than 1,722 spat m<sup>2</sup> counted during same period last year.

Oyster spat settlement in the Southwest Fork had 2,425 spat  $m^2$  with 77% of settlement activity occurring at the upstream site. This density is slightly below the period average of 3,374 spat  $m^2$  but is higher than 1,218 spat  $m^2$  counted during same period last year.

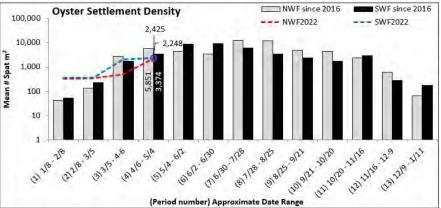


Figure shows mean oyster spat settlement for the Northwest Fork (gray bars) and the Southwest Fork (black bars) since 2016. Dashed lines show oyster spat settlement so far for 2021 in the NWF (red) and SWF (blue). Note logarithmic scale of vertical axis.

#### Wastewater Surveillance of COVID-19

The wastewater surveillance monitoring for May shows that SARS/COVID-19 is still very prominent in our community. Since late March we have been observing a gradual increase in virus concentration and now the increases are accelerating. We measured notable increases from May 2<sup>nd</sup> to May 16 and our most recent sample on June 6 that had an unadjusted virus concentration of over 3.7M copies/L. Recall the peak virus concentration in January was 5.2M copies/L.

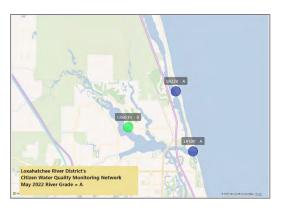
Biobot is now reporting weekly national and regional consolidated analysis summaries of their customer's results that are participating in the Biobot reporting network. Interestingly, these summaries provide details on the proportion of the virus variants. See the results <u>HERE</u>.



Information Services Page 7

#### **Volunteer Water Quality**

The overall Volunteer Water Quality grade for May 2022 was an "A". Station 61.1, at the Tequesta Boat Ramp, had poor water clarity and higher than optimal salinity, which contributed to a lower grade than last month. All other parameters at the other two sites had good to excellent water quality scores.



		Averaged results for the Month								Monthly Cumulative Grades					
Cite	T	Casabi	Calinity				Calar	Min	0-14			D.0%	Calar	0	Quede
Site	Temp (F)	Secchi	Salinity	рН	DO	DO%	Color	Vis	Salt	рН	DO	DO%	Color	Score	Grade
LR10V	26.3	4.48	34.5	8.1	6.4	96.3	1.0	Α	Α	В	В	Α	Α	95.8	Α
LR22V	25.3	1.00	35.3	8.6		98.6	1.0	Α	Α	Α	Α	Α	Α	100.0	Α
LR60.1V	25.5	0.75	33.5	8.1	6.6	96.6	1.0	F	F	Α	Α	Α	Α	83.3	В
Average	25.7													94.4	Α

VAB (Visible at Bottom) DO (Dissolved Oxygen) ND (No Data)

### **Customer Service**

#### **Payment Processing**

2<sup>nd</sup> Quarter bills were due May 18 and staff were busy processing nearly 19,500 payments totalling over \$2.8M. We saw another record number of automatic payments, breaking through the 9,000 count threshold.

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

Edmunds staff are making some gradual progress on our implementation while they continue to wrap up implementations with their other customers.

One challenge that we are facing with our transition to the new payments system is that we *cannot* transfer the customer's auto pay information from our current provider to the new one. Therefore, we are now planning a series of communications with the AutoPay customers to retain as many automatic payments as possible.

## Information Technology (IT)

#### **Computerized Maintenance Management System (CMMS)**

The IT Team has implemented an enhancement in CMMS that will improve the efficiency of scheduling work.

Now, when a work order is created, the user assigns a priority for work, based on both the importance of the work and a reasonable expected time for completion. The system then assigns an estimated target start and end date based on the priority setting.

eduling	
Supervisor.	INSDIR
Target Start Date:	06/09/2022 10:01
Target End Date:	06/21/2022 10:01

CMMS calculated target start and end date

This new enhancement helps provide clarity for scheduling and improves the management of expectations for the completion of work.

5 - Next Week Schedul
1 - Emergency (DO IT NOW)
2 - Urgent less than 48 hours
3 - This Week
5 - Next Week Schedule (7 - 12 days)
6 - Within 30 days
7 - Within 90 days
8 - Within 10 months

CMMS Priority List

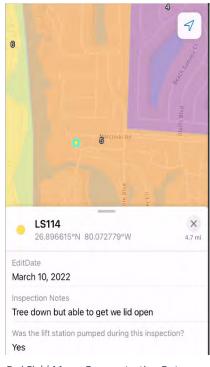
#### **Damage Assessment Apps and Analytics**

As part of the District's Hurricane Response plan, we utilize a mobile damage assessment tool that is used to collect and visualize data on lift station and low pressure station status. This year, we upgraded our maps to utilize a new software app, which is the latest geospatial data collection tool from ESRI, our GIS software provider. By using the new app, we are able to significantly improve the workflow and efficiency for field technicians as they collect the field data.



PowerBI Lift Station Condition: Demonstration Data from Training

In addition, we also updated the data analysis and visualization tools, now using PowerBI, for staff to use in the command center. The new and improved analysis tools help the users evaluate the various conditions such as station condition, power status, wet well level, etc.



Esri Field Maps: Demonstration Data from Training

## Loxahatchee River Environmental Center

June 2022



#### **River Center Summary Statistics**

## LRD'S ENVIRONMENTAL STEWARDSHIP DASHBOARD

CONTROL OF THE PARTY OF THE PAR		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
Cu	chmark / stomer ectation	% 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	Мау	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%
	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%
	Мау	45%	8.1	55%	86%	55%	147%	5.0	7.9	100%	153%
	secutive s at Green	0	13	0	1	0	13	13	13	8	1
Metr	ic Owner	O'Neill	O'Neill	O'Neill	Harris / Duggan	Miller	O'Neill	O'Neill	O'Neill	O'Neill	O'Neill

Metric	Explanation
Environmental	We only had 3 days of scheduled field trips this month which is lowering this number.
Stewardship Impact	
Total Visitors	May is usually a slow month, but in addition we only had three field trip days which lowered this number.
Volunteer Engagement	Many of our volunteers were busy with end of the year school functions including graduation. We should see an increase during the summer months.

#### **River Center General**

We welcomed Emily Weeks as our new Volunteer Coordinator this month. In addition, our three summer interns started their training this month: Aubrey Rutz, Tommy Schmitz, Noah Gorman. Noah is a former River Center Aquatic Adventure Camper.

#### **Special Programs**



#### Science with Sam [Wednesdays, 5/4]

In May, Science with Sam taught an Estuary Exploration class at the River Center. The class was modified to be indoor due to the bad weather conditions outside. Students learned about each of our touch tank aniamls before having the opportunity to touch or hold them. After the aniaml encounter Students had a chance to explore throughout the River Center exhibits and understood how the tanks represent the habitats in our Loxahatchee River watershed.

#### Blooming in the Garden [Saturday, May 7th]

On May 7th, the River Center hosted a Blooming in the Garden program for families with early learners. The theme this month was Lazy Lizards which included a fun lizard themed craft. Families got the opportunity to explore the River Center's migratory bird garden. They learned where lizards like to live and about the different variety of lizards found throughout the world.



#### Homeschool Workshop: Water Cycle [Wednesday, May 11th]



The River Center hosted our last Spring Homeschool Workshop for students ages 7-10. This class was all about the water cycle! Students learned about how water travels through the world as a solid, liquid and gas, how all our water is all the water we will ever have and lastly, how the Loxahatchee River District treats our wastewater. Students then played our Wonders of Water game, in which each child was a drop of water and they traveled through the cycle as a glacier, ground water, a stream, and as a cloud. They learned that every drop of water has a different journey, and no two journeys are the same.

#### Volunteer of the Month

Lily Langbert is our marvelous May 2022 volunteer of the month! She volunteers at the River Center twice a week and is involved with several of our programs. Lily is an animal care volunteer, a summer camp counselor, and a Science with Sam assistant. She is always eager to feed her fish friends and lend a helping hand around the River Center. Lily brings a positive attitude to her volunteer shifts and makes sure all the animals are well taken care of. We are so thankful for your service, Lily!



## **Upcoming River Center Events**

RSVP at <u>www.lrdrivercenter.org/events-calendar</u> 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.

#### **SUMMER SEASON**

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

#### MEMORANDUM

To:D. Albrey Arrington, Ph.D., Executive DirectorFrom:Ed Horchar Safety OfficerDate:June 08, 2022Subject:District Safety Report for May 2022

#### Safety Metrics: May 2022

OSHA recordable injuries: Zero Lost time injuries: Zero Actual TRIR: 1.3 [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 six consecutive months. With one recordable injury in the last 12 months, we have sustained a Total Recordable Incident Rate (TRIR) of 1.3, below our goal of 2.2 and a rate shared as the lowest in recent history. The District will need to work injury free for an additional six months to reach a rate of zero. The District best for consecutive months with no recordable injuries is 8.

With a total of two MVAs in the last 12 months, the MVA incident rate is at 2.2. Below the LRD MVA goal of 2.2. Similar to the zero-injury rate focus, the District will need to work MVA free for an additional six months to reach a rate of zero.

#### Sustainment:

Job Hazard Assessment (JHA) activity continues to impress. The District experienced consecutive record months of high volume JHA activity with a 6% increase in May from April's volume. There was fluctuation in the monthly JHA output however, with most departments realizing a slight reduction compared to April. Driving the Districts monthly increase was Operations performance which increased JHA output by 6 per employee. The following is a comparison of May JHA's performed per employee in each participating department:

Reuse: Collections: Operations: Maintenance: 32 JHA's / employee 26 JHA's / employee 24 JHA's / employee 12 JHA's / employee Construction: Inspection: Wild Pine Lab 12 JHA's / employee 1 JHA / employee 2 JHA's / employee

James D. Snyder CHAIRMAN **Gordon M. Boggie** BOARD MEMBER Stephen B. Rockoff BOARD MEMBER

Dr. Matt H. Rostock BOARD MEMBER

Water Reclamation - Environmental Education - River Restoration

May's 6% increase resulted in a total submittal of 729 completed JHA's. An increase of 41 for the month. The goal is to have a JHA performed for each work order initiated. A rudimentary look at the work orders completed in May indicates we may have room for improvement. We will look closer at this data to determine what gaps, if any, we should address to reach the goal of one JHA per work order. We need to remind each other of this approach. By doing so we will continue to improve the overall safety performance and get to the zero-incident rate.

May Near Miss reporting slowed to one submittal. This is after the training followed by a record high submittal in April. The largest submittal of Near Miss reports the District has realized. The Near Miss integration into the EAM work order system has been enhanced for the ease of corrective action tracking and follow up, and integration with Power BI. The Near Miss process is another way to reduce the safety risk in the District work environment. I encourage every employee to participate in this program.

#### Training:

The emphasis on classroom and computer-based safety training continued in May. Six new hires, including four interns, received mandatory onboarding safety training which is regulatory, and policy driven. Completed training is now being tracked. The District realized a 95% completion rate for all safety training tracked in May. This is good but we can be better. Employees are asked to be aware of computer-based training reminders from "platform@targetsolutions". This most likely is not spam.

Dwane Martin (Collections) received his CDL Class B Certification May 25th. Congratulations Dwayne! Two more District employees are testing for their license in June (Maintenance and Operations), and one more in July (Operations). Two employees have passed the new DOT required online course in "CDL Class B Driving Theory" in May. These employees are now eligible to take the two-part test for the CDL learner's permit. A total of six eligible District employees requires the CDL designation in calendar year 2022 to reach 100% compliance.

2022 Hurricane Preparedness Procedures have been completed and are located on the LRD and Safety Intranet Page. Training exercises were also completed in May, which aided in the planning for the tropical system which moved through the District June 3<sup>rd</sup> and 4<sup>th</sup>. Thankfully, this was a non-event, but the exercise aided in overall hurricane event preparedness.

Workplace inspections were sustained in May. District jobs that were observed including chlorine transfer, Lift Station Inspections, LP and LS emergency generator use and set-up demonstrations, construction activity to install a 6-inch double service unit and dewatering process polymer transfer to building fixed storage tanks.



Pictured at right: Robbie Spires preps a section of sidewalk for removal to support hydro excavation activity. Hydro excavation at left:

Alex Smith operates the Vacuum while Robbie Spires excavates the ground to gain access to the 6-inch X 4-inch wye line needing replaced.



Below, Due to the high cost of bulk polymer used in the dewatering process, the polymer was delivered in less costly 275-gallon totes. Plant Operator John Gould monitors the pneumatic diaphragm pump while Nathan Jarvis monitors the level in the tote containers while the polymer is being transferred from the totes to the facilities fixed storage tanks.

Other May activities included a successful quarterly Safety Committee Meeting. This meeting was also attended by Chris Kittleson, Director of Loss Control Technical Services for the Public Risk Underwriters of Florida, which represents the District. The Agenda and the Minutes of the meeting are located on the LRD Safety Intranet. Also, the annual FDEP tank registration was initiated. The District should have updated tank registration placards to display by the end of June. In conjunction with the tank registration, the required tank annual testing conducted by Discovery Tank Testing has been initiated and will be accomplished sometime in the June / July timeframe.



The District employees are benefiting from a safe work environment as evident by six consecutive months of injury and MVA free work. Continuous improvement with programs like JHA's, training and near miss reporting can lead the District to 12 months of injury free work. We are halfway to that goal, but it is an achievable goal. One day at a time, I am confident we will get there. As always, reach out to me and let me help you achieve your safety goals.



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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

#### MEMORANDUM

**TO:** Governing Board

FROM: Administration Staff

**DATE:** June 9, 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	\$ 24,405.00	\$ 71,660.00
Baxter & Woodman	-1	\$ 57,477.22
Carollo	-	\$ 109,193.52
Chen Moore	_	\$ 65,051.57
Holtz	-	\$ 179,352.13
KCI		\$ 44,630.77
Mock, Roos & Associates	\$ 3,723.50	\$ 67,831.50

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

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Water Reclamation - Environmental Education - River Restoration



# Future Business

Workshops to schedule:

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

General:

FY2023 Budget

Future Contracts:

- BLM Site Plan and House Renovations
- Vacuum Truck Dump Facilities

