



LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

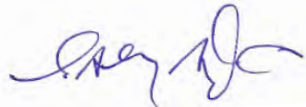
D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

AGENDA
REGULAR MEETING #08-2023
MAY 18, 2023 – 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 8
 - B. Loxahatchee River District Dashboard Page 9
5. Consent Agenda (see next page) Page 10
6. Regular Agenda
 - A. Consent Agenda Items Pulled for Discussion
 - B. Headworks Odor Control System Replacement (Evoqua) Page 65
7. Reports (see next page) Pulled for Discussion
8. Future Business Page 133
9. Board Comments
10. Adjournment

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

Submitted by: 
Date: May 8, 2023

Dr. Matt H. Rostock
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
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. Jupiter Inlet Lighthouse Outstanding Natural Area Septic to Sewer – to approve electrical revisions [Page 11](#)
- B. 20 Acres – Site Remediation – to approve professional engineering services [Page 34](#)
- C. Staff Award Policy – to approve revisions [Page 45](#)
- D. Non-Residential Billing by Water Use Policy – to approve update [Page 49](#)
- E. Multi-meter Non-Residential Billing Policy – to approve update [Page 53](#)
- F. End Sewer Service Charges Policy – to approve update [Page 56](#)
- G. Fixed Asset Disposal – to approve disposal [Page 59](#)
- H. Change Order to Current Contract – Loxahatchee River Subaqueous Force Main Replacement – Professional Engineering Services Agreement – to approve additional permitting services [Page 60](#)

7. REPORTS

- A. Neighborhood Sewering [Page 74](#)
- B. Legal Counsel's Report [Page 76](#)
- C. Engineer's Report [Page 79](#)
- D. Busch Wildlife Sanctuary [Page 87](#)
- E. Director's Report [Page 88](#)



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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: Governing Board
FROM: D. Albrey Arrington, Ph.D., Executive Director
DATE: May 08, 2023
SUBJECT: Approval of Meeting Minutes

Attached herewith are the minutes of the Regular Meeting of April 20, 2023. As such, the following motion is presented for your consideration:

“THAT THE GOVERNING BOARD approve the minutes of the Regular Meeting of April 20, 2023 as submitted.”

Dr. Matt H. Rostock
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

Ref: #07-2023

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
REGULAR MEETING - MINUTES
APRIL 20, 2023

1. CALL TO ORDER

Chairman Rostock called the Regular Meeting of April 20, 2023 to order at 7:00 PM.

2. ADMINISTRATIVE MATTERS

A. ROLL CALL

The following Board Members were in attendance:

Dr. Rostock
Mr. Baker
Mr. Boggie
Mr. Yerkes

Staff Members in attendance were Dr. Arrington, Mr. Dean, Mr. Howard, Ms. Fraraccio, Mr. Pugsley, and Ms. Jones.

Consultants in attendance were Mr. Curtis Shenkman and Mr. Hunter Shenkman, Ms. Wynn from Busch Wildlife, Ms. Oakes and Ms. Cardoso from Egis Insurance & Risk Advisors, and Mr. Jimenez from Florida Insurance Alliance.

B. PREVIOUS MEETING MINUTES

The minutes of the Public Hearing and Regular Meeting of March 16, 2023 were presented for approval and the following motion was made:

“THAT THE GOVERNING BOARD approve the minutes of the Public Hearing and Regular Meeting of March 16, 2023 of as submitted.”

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

C. ADDITIONS & DELETIONS TO THE AGENDA

3. COMMENTS FROM THE PUBLIC

No comments from the public were received.

4. STATUS UPDATES

A. LOXAHATCHEE WATERSHED STATUS

Mr. Howard presented on dry conditions effects on the Loxahatchee River and LRECD's efforts to provide some relief.

B. LOXAHATCHEE RIVER DISTRICT DASHBOARD

Dr. Arrington reviewed the District Dashboard.

5. CONSENT AGENDA

"THAT THE GOVERNING BOARD approve the Consent Agenda of April 20, 2023 as presented."

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

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

A. Notice of Intent - 18041 69th Terrace North (Resolution 2023-04)

"THAT THE GOVERNING BOARD approve Resolution 2023-04 the NOTICE OF INTENT to Assess, the Pending Lien Notice, and the Exhibits for the 18041 69th Terrace North Assessment Area."

B. Gravity System Rehabilitation for Center Street Corridor – to approve contract

"THAT THE DISTRICT GOVERNING BOARD authorize the "piggyback" of the City of Clearwater Contract 22-0006-UT with Inliner Solutions for a total amount not to exceed \$1,207,800.46 and a contingency of \$120,000.00"

C. Gravity System TV Inspection for Tequesta Country Club – to approve contract

"THAT THE DISTRICT GOVERNING BOARD authorize the "piggyback" of the TOHO Water Authority contract No. 20-133 with Atlantic Pipe Services, Inc. for an amount not to exceed \$92,030.95 and a contingency of \$10,000.00."

D. 705 Paulina Road – to approve termination and release of utility easement

“THAT THE DISTRICT GOVERNING BOARD authorize the Executive Director to execute the attached termination and release of utility easement rights for 705 Paulina Rd, Jupiter, FL 33477.”

E. Fixed Asset Disposal – to approve disposal

“THAT THE GOVERNING BOARD authorize the Executive Director to dispose of the items from aggregated assets listed in the schedule above in accordance with the District’s Disposal of Surplus Tangible Personal Property Policy.”

F. Change Order to Current Contract –

No change orders were presented.

6. REGULAR AGENDA

A. CONSENT AGENDA ITEMS PULLED FOR DISCUSSION

B. Liability and Workers Compensation Insurance

“That the District Governing Board authorize the Executive Director to accept and purchase Property, General Liability, Automobile Liability and Physical Damage, Workers’ Compensation, and Crime insurance pursuant to the FIA quote for the policy period May 1, 2023 through September 30, 2023.”

And

“That the District Governing Board authorize the Executive Director to accept and purchase Chubb Insurance’s renewal quote for Pollution Liability insurance for the policy period May 1, 2023 through April 30, 2024.”

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

C. Odor Control (Evoqua) Contract

“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, 2023 through September 30, 2023, in an amount Not-to-Exceed \$225,000.00”.

MOTION: Made by Mr. Yerkes, Seconded by Mr. Baker
Passed unanimously.

7. REPORTS

The following reports stood as written.

A. NEIGHBORHOOD SEWERING

B. LEGAL COUNSEL’S REPORT

C. ENGINEER’S REPORTS

D. BUSCH WILDLIFE SANCTUARY

Ms. Wynn presented the Busch Wildlife dashboard

E. DIRECTOR’S REPORT

8. FUTURE BUSINESS

Dr. Arrington reviewed Future Business.

9. COMMENTS FROM THE BOARD

10. ADJOURNMENT

MOTION: Made by Mr. Yerkes, Seconded by Mr. Baker
Passed Unanimously.

“That the regular meeting of April 20, 2023 adjourns at 8:11 PM.”

BOARD CHAIRMAN

BOARD SECRETARY

RECORDING SECRETARY



Loxahatchee River Watershed Status Operating Permit Renewal & Capacity Analysis

The Loxahatchee River District's (LRD) operating permit is regulated by Florida Department of Environmental Protection (FDEP). LRD is required to renew its operating permit every five years.

The permit renewal process includes completing the FDEP application packet as well preparing an Operation & Maintenance Performance Report and a Capacity Analysis Report.

At our meeting we will discuss the findings from our most recent Capacity Analysis Report and recommendations for our next FDEP operating permit.



LOXAHATCHEE RIVER DISTRICT'S EXECUTIVE DASHBOARD



		Stewardship	Pre-Treatment	Collection & Transmission		Wastewater Treatment			Reclaimed Water	EHS	General Business					River Health		
		# People educated at RC	Grease Interceptor Inspections	Customer Service	Unauthorized Discharge of Sewage	Mean Daily Incoming Flow	Permit exceedance	NANO Blend to Reuse (@ 511)	Delivery of Reclaimed Water	Employee Safety	Cash Available	Revenue (excluding assessment & capital contrib.)	Operating Expenses	Capital Projects		Minimum Flow Compliance	Salinity @ NB seagrass beds	River Water Quality
Units		% of Target	% requiring pump out	# blockages with damage in home	Gallons; # impacting surface waters	million gallons/day	# occurrences	Max Specific Conductance (umhos/cm)	# days demand not met	# of OSHA recordable injuries	\$	% of Budget	% of Budget	% within budget	average # days ahead (behind) schedule	# Days MFL Violation	‰	Fecal Coliform Bacteria (cfu/100ml)
Green Level		≥ 90%	≤ 15	Zero	<704; 0	< 7.7	Zero	<1542	<2	Zero	≥ \$9,894,657	≥ 95%	≥ 85% but ≤ 105%	≥ 80%	≥ (30)	0	min ≥ 20 ‰	≤ 1 site > 200
Yellow		< 90%	≤ 25	1	≤1,500; 0	< 8.8	1	≤1875	≥ 2	-	< \$9,894,657	≥ 90%	≥ 80%	≥ 60%	< (30)	1	min ≥ 10 ‰	≤ 3 sites >200
Red		<75%	> 25	≥ 2	>1,500; ≥1	≥ 8.8	≥ 2	>1875	≥ 9	≥ 1	< \$5,557,057	< 90%	< 80% or > 105%	< 60%	< (60)	≥ 2	min < 10 ‰	≥ 4 sites > 200
2020 Baseline		34%	8	0.1	3,292	7.2	0	1,183	1	0.3	\$ 35,350,661	100%	90%	91%	-15	7	14.6	2
2021 Baseline		113%	16	0.3	1,130	7.1	0	1,294	2	0.2	\$ 40,651,532	97%	89%	79%	-34	0	24.3	3
2022 Baseline		81%	12	0.1	395	6.8	0	1,268	3	0.0	\$ 44,372,235	101%	91%	83%	-51	1	22.6	3
2022	Apr	104%	22	1	217; 0	7.1	0	1,296	0	0	\$ 44,230,248	103%	93%	83%	(62)	0	29.3	4
	May	55%	13	0	13; 0	6.5	0	1,312	1	0	\$ 46,067,857	102%	92%	81%	(39)	16	31.8	2
	June	86%	14	0	17; 0	6.6	0	1,249	1	0	\$ 44,902,557	101%	91%	81%	(36)	0	20.6	4
	July	95%	8	0	310; 0	6.2	0	1,245	7	0	\$ 44,247,503	102%	93%	81%	(52)	0	26.9	4
	Aug	88%	10	0	45; 0	6.3	0	1,275	4	0	\$ 45,392,935	101%	92%	84%	(69)	0	32.2	3
	Sept	77%	10	0	11; 0	6.4	0	1,207	13	0	\$ 43,373,290	92%	92%	84%	(87)	0	5.0	4
	Oct	79%	13	0	120; 0	6.9	0	1,101	5	0	\$ 43,464,126	97%	84%	86%	(34)	0	13.8	3
	Nov	53%	9	0	31; 0	7.2	0	1,269	3	0	\$ 45,258,800	103%	83%	87%	(36)	0	17.3	0
	Dec	94%	14	0	3,482; 0	7.1	0	1,342	0	0	\$ 44,024,404	107%	92%	89%	(36)	0	11.8	1
	2023 Jan	69%	11	0	51; 0	7.1	0	1,447	9	0	\$ 44,602,531	106%	91%	90%	(23)	0	26.5	1
	Feb	79%	14	0	8; 0	7.2	0	1,334	5	0	\$ 45,825,795	105%	89%	92%	(22)	0	28.9	0
	Mar	94%	13	0	2949; 0	7.1	0	1,324	24	0	\$ 45,242,896	105%	90%	92%	(30)	1	32.7	2
	Apr	116%	9	0	0; 0	7.1	0	1,317	17	0	\$ 44,973,518	106%	93%	92%	(26)	26	27.8	5
Consecutive Months at Green		2	12	12	1	167	23	152	0	17	163	18	5	15	4	0	4	0
Metric Owner		O'Neill	Pugsley	Dean	Dean	Pugsley	Pugsley	Pugsley	Dean	Horchar	Fraraccio	Fraraccio	Fraraccio	Dean	Dean	Howard	Howard	Howard

Metric	Explanation
IQ Water Delivery	Due to regional drought conditions, we curtailed IQ Water deliveries by 25% to all 4 golf courses with a curtailable agreement (these curtailments have been discontinued). Also, on three of those days we failed to provide the full allocation to Jupiter Hills due to system constraints.
MFL Violations	The MFL was violated on 26 days (April 1 - 26) due to the 20 day rolling average salinity at River Mile 9.1 exceeding 2.0 ppt. Flows over Lainhart Dam were < 35 cfs for 21 days in April. Fortunately, Since April 25, flows over Lainhart Dam have consistently exceeded 35 cfs and averaged 46.5 cfs.
Fecal Coliform Bacteria	High fecal coliform bacteria (>200 cfu/100 ml) were observed at Stations 65 (NW Fork at Kitching Creek mouth), 67 (Trapper Nelson's), 69 (Loxahatchee River at Indiantown Rd), 95 (Jupiter Farms), and 100 (NW Fork at Cypress Creek mouth). See Bud's report for additional details.



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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: Governing Board
FROM: Administration Staff
DATE: May 11, 2023
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. Jupiter Inlet Lighthouse Outstanding Natural Area Septic to Sewer – to approve electrical revisions
- B. 20 Acres – Site Remediation – to approve professional engineering services
- C. Staff Award Policy – to approve revisions
- D. Non-Residential Billing by Water Use Policy – to approve update
- E. Multi-meter Non-Residential Billing Policy – to approve update
- F. End Sewer Service Charges Policy – to approve update
- G. Fixed Asset Disposal – to approve disposal
- H. Change Order to Current Contract – Loxahatchee River Subaqueous Force Main Replacement – Professional Engineering Services Agreement – to approve additional permitting services

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

The following Motion is provided for Board consideration:

“THAT THE GOVERNING BOARD approve the Consent Agenda of May 18, 2023 as presented.”

Signed 

D. Albrey Arrington, Ph.D.
Executive Director

Dr. Matt H. Rostock
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

Water Reclamation – Environmental Education – River Restoration



LOXAHATCHEE RIVER DISTRICT

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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: D. Albrey Arrington, Ph.D.
FROM: Kris Dean, P.E., Deputy Executive Director
DATE: May 11, 2023
SUBJECT: Bureau of Land Management/Jupiter Inlet Lighthouse Outstanding Natural Area – Electrical

In September 2020 staff entered into a contract with the BLM to provide design services for the septic to sewer conversion of the Jupiter Inlet Lighthouse Outstanding Natural Area (JILONA) and undergrounding of existing FPL power and Comcast communication. Then, in April 2021 the District entered into a contract with the BLM to provide construction services for septic to sewer conversion of the JILONA and undergrounding of existing overhead FPL power and Comcast communication.

As part of the contract individual service connections need to be provided as well as relocation of the electrical service to the access gate on the north entrance off Beach Road. Staff have coordinated with the District's general electrical services contractor for the attached proposal in the amount of \$130,620.59.

Along the eastern portion of the project BLM has requested revisions to the original electrical scope to include a central power distribution panel to the various buildings and independent metered service to the lighthouse. Staff have coordinated with the District's general electrical services contractor for the attached proposal in the amount of \$126,281.04.

Funding for this work is included in the District's existing contract with BLM.

Service Connections:	\$130,620.59
<u>Revised Electrical:</u>	<u>\$126,281.04</u>
Total:	\$256,910.63

Staff recommend the following motion.

“THAT THE DISTRICT GOVERNING BOARD authorize the Executive Director to issue a purchase order to Hinterland Group, Inc. for electrical work at the JILONA in the amount of \$256,910.63 and a contingency of \$25,691.00.

Dr. Matt H. Rostock
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER



Hinterland Group, Inc.
2051 W Blue Heron Blvd
Riviera Beach, FL 33404
(561) 640-3503 - Phone

ALL PO's/Contractual Issuances are to be emailed to: info@hinterlandgroup.com

Proposal # 22-0001-16

ADDRESS

Loxahatchee River District
Kris Dean, PE
Kris.Dean@lrcd.org

DATE: 5/10/2023

JOB NAME: JILONA - Housing Electrical Upgrades

ACTIVITY	QUANTITY	UNIT	RATE	AMOUNT
<u>Housing Power</u>				
Labor Rates				
Master Electrician	160	HR	\$131.25	\$21,000.00
Journeyman Electrician	240	HR	\$101.85	\$24,444.00
Apprentice/Electrician Helper	240	HR	\$88.20	\$21,168.00
Materials				
Electrical Material per Proposal - Wire, conduit, strut, etc.	1	LS	\$31,693.63	\$31,693.63
15% Material Markup	1	LS	\$4,754.04	\$4,754.04
Excavator Rental	6	WK	\$1,070.00	\$6,420.00
Large Compressor (200 CFM) and Mole Attachment	1	WK	\$720.00	\$720.00
Total Housing Power				\$110,199.67
<u>Gate Power</u>				
Labor Rates				
Master Electrician	20	HR	\$131.25	\$2,625.00
Journeyman Electrician	60	HR	\$101.85	\$6,111.00
Apprentice/Electrician Helper	60	HR	\$88.20	\$5,292.00
Materials				
Electrical Material per Proposal - Wire, conduit, strut, etc.	1	LS	\$4,628.62	\$4,628.62
15% Material Markup	1	LS	\$694.29	\$694.29
Excavator Rental	1	WK	\$1,070.00	\$1,070.00
Total Housing Power				\$20,420.91

TOTAL

\$130,620.59

Notes:

1. Proposal based on contract #22-005-00115 Electrician Services
2. Proposal includes estimated material takeoff based on limited plan information, invoicing will reflect actual quantities used.
3. No permit fees or permitting included
4. No restoration is included.

ALL PO's/Contractual Issuances are to be emailed to: info@hinterlandgroup.com

Accepted By:

Accepted Date:



ELECTRICAL MATERIALS
JILONA - HOUSING POWER SERVICES

			Unit	Total
10		2" male adapters	\$ 2.25	\$ 22.50
1		Waterproof Meter adaptor 2"	\$ 15.00	\$ 15.00
20		2-1/2" x 2" reducing washers	\$ 2.00	\$ 40.00
50		2" Pipe Straps	\$ 4.89	\$ 244.50
628		2" Sch40 Pipe	\$ 2.37	\$ 1,485.79
11		2" 90 Elbows	\$ 19.30	\$ 212.30
1		Gallon Glue	\$ 19.00	\$ 19.00
120		2" sch80	\$ 3.76	\$ 451.33
8319		2/0 THHN	\$ 2.75	\$ 22,856.29
2		2" PVC LR's	\$ 89.00	\$ 178.00
506		1-1/2" Sch40 PVC	\$ 1.90	\$ 959.78
1518		#1 Wire	\$ 1.82	\$ 2,765.43
10		1-1/2" Sch80 PVC	\$ 2.90	\$ 29.04
10		#6 Bare Copper	\$ 6.85	\$ 68.48
1		Ground Rod	\$ 28.00	\$ 28.00
1		5/8 Acorn Clamp	\$ 5.00	\$ 5.00
4		Bags of Concrete	\$ 7.00	\$ 28.00
1		1-1/2" male adapter	\$ 1.80	\$ 1.80
10		gallons wire lube	\$ 21.00	\$ 210.00
				\$ 29,620.23
			w/ Tax	\$ 31,693.65



ELECTRICAL MATERIALS
JILONA - GATE POWER SERVICE

			Unit	Total
2		2" male adapters	\$ 2.25	\$ 4.50
1		Gallon Glue	\$ 19.00	\$ 19.00
520		1-1/2" Sch40 PVC	\$ 1.90	\$ 986.34
1600		#1 Wire	\$ 1.82	\$ 2,914.82
20		1-1/2" Sch80 PVc	\$ 2.90	\$ 58.08
10		#6 Bare Copper	\$ 6.85	\$ 68.48
1		Ground Rod	\$ 28.00	\$ 28.00
1		5/8 Acorn Clamp	\$ 5.00	\$ 5.00
4		Bags of Concrete	\$ 7.00	\$ 28.00
2		1-1/2" male adapter	\$ 1.80	\$ 3.60
10		gallons wire lube	\$ 21.00	\$ 210.00
				\$ 4,325.81
				w/ Tax \$ 4,628.62



Hinterland Group, Inc.
2051 W Blue Heron Blvd
Riviera Beach, FL 33404
(561) 640-3503 - Phone

ALL PO's/Contractual Issuances are to be emailed to: info@hinterlandgroup.com

Proposal # 22-0001-15

ADDRESS

Loxahatchee River District
Kris Dean, PE
Kris.Dean@lrcd.org

DATE: 4/3/2023

JOB NAME: JILONA - Jupiter Lighthouse Electrical Service Upgrades

ACTIVITY	QUANTITY	UNIT	RATE	AMOUNT
Labor Rates				
Master Electrician	80	HR	\$131.25	\$10,500.00
Journeyman Electrician	200	HR	\$101.85	\$20,370.00
Apprentice/Electrician Helper	400	HR	\$88.20	\$35,280.00
Materials				
Electrical Material per Proposal - Wire, conduit, strut, etc.	1	LS	\$10,997.13	\$10,997.13
Electrical Gear per Proposal - Meter Cans, Disconnect, etc	1	LS	\$36,012.47	\$36,012.47
15% Material Markup	1	LS	\$7,051.44	\$7,051.44
Excavator Rental	5	WK	\$1,070.00	\$5,350.00
Large Compressor (200 CFM) and Mole Attachment	1	WK	\$720.00	\$720.00

TOTAL \$ 126,281.04

Notes:

1. Proposal based on contract #22-005-00115 Electrician Services
2. Proposal includes estimated material takeoff based on limited plan information, invoicing will reflect actual quantities used.
3. No permit fees or permitting included
4. No restoration is currently included as quantities are unknown

ALL PO's/Contractual Issuances are to be emailed to: info@hinterlandgroup.com

Accepted By: _____

Accepted Date: _____



C.E.S. (Jupiter)
222 Jupiter Street, Jupiter, FL,
33458.

Phone: 561-746-6603
Fax: 561-746-6929
Email: Jupiter0124@cityelectricsupply.com

QUOTATION

JUP/037538

Valid From: 03 Apr 2023
Valid Until: 20 Mar 2023

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CITY ELECTRIC SUPPLY

HINTERLAND GROUP INC

2051 WEST BLUE HERON BOULEVARD
RIVIERA BEACH, FL
33404

Phone: 5616403503

Fax: 5616403504

Delivery Details:
REVISED QUOTE 37175 WITH
CHANGES MADE

Entered by: Thomas Bertone
Sales Rep: Thomas Bertone

Account No.: 01240948001
Order Number: LIGHTHOUSE

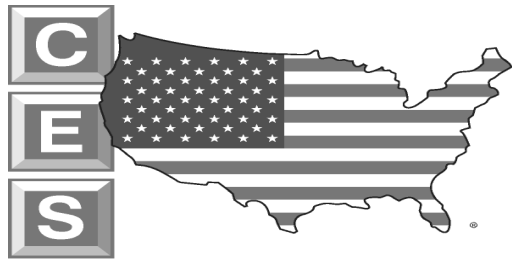
Qty	Item	Description	\$ Price Per	\$ Goods
2	SOUTHERN C588	8 GROUND ROD	18.32 E	36.64
20	PIPE ALU300	3" ALUMINUM CONDUIT	1057.52 C	211.50
NO QUOTE CAP				
50	FS14158-SS316	1-5/8 X 1-5/8 SS STRUT	1687.50 C	843.75
20	FS141316EHS610	13" 16"X15/8" STRUT 316 SS	1250.00 C	250.00
20	RSC125S6	RIGID STRUT CLAMP 1 1/4" 316SS	631.49 C	126.30
10	RSC200S6	RIGID STRUT CLAMP 2" 316SS	1035.01 C	103.50
10	RSC075S6	RIGID STRUT CLAMP 3/4" 316SS	572.09 C	57.21
100	BARE-1/0-19-STR-CU	BARE-1/0-CU 19 STR-REEL	2105.27 M	210.53
100	BARE-SD-6-SOL-CU-315	BARE-SD-6-SOL-CU-315	671.17 M	67.12
900	THHN-3/0-STR-BLK-CU	THHN-3/0-BLK-19STR-CU	3467.78 M	3121.00
1100	THHN-6-STR-BLK-CU	THHN-6-BLK-19STR-CU	692.82 M	762.10
500	THHN-12-STR-BLK-CU-500	THHN-12-BLK-19STR-CU-500S/R	157.89 M	78.95
500	THHN-3-STR-BLK-CU	THHN-3-BLK-19STR-CU	1337.24 M	668.62
100	THHN-8-STR-BLK-CU	THHN-8-BLK-19STR-CU	450.30 M	45.03
100	PIPE PVC075SCH80	3/4" PVC SCH 80	135.26 C	135.26
700	PIPE PVC125SCH80	1-1/4" PVC SCH 80	244.33 C	1710.31

Prices may be subject to change from manufacturer at the time of dispatch. When ordering please use above quotation number.

Seller assumes no responsibility for quoted materials meeting job specifications unless specifically stated in writing.

Substitution of similar quality material is permitted. All special order material is non-returnable or subject to the manufacturer's return goods policy.

E&OE



C.E.S. (Jupiter)
222 Jupiter Street, Jupiter, FL,
33458.

Phone: 561-746-6603
Fax: 561-746-6929
Email: Jupiter0124@cityelectricsupply.com

QUOTATION

JUP/037538

Valid From: 03 Apr 2023
Valid Until: 20 Mar 2023

Page 2/3

CITY ELECTRIC SUPPLY

HINTERLAND GROUP INC

2051 WEST BLUE HERON BOULEVARD
RIVIERA BEACH, FL
33404

Phone: 5616403503

Fax: 5616403504

Delivery Details:
REVISED QUOTE 37175 WITH
CHANGES MADE

Entered by: Thomas Bertone
Sales Rep: Thomas Bertone

Account No.: 01240948001
Order Number: LIGHTHOUSE

Qty	Item	Description	\$ Price Per	\$ Goods
300	PIPE PVC200SCH80	2" PVC SCH 80	376.14 C	1128.42
500	THHN-6-STR-GRN-CU	THHN-6-GRN-19STR-CU	692.82 M	346.41
500	THHN-8-STR-GRN-CU	THHN-8-GRN-19STR-CU	450.30 M	225.15
500	THHN-10-STR-GRN-CU-500	THHN-10-GRN-19STR-CU-500S/R	241.46 M	120.73
500	THHN-12-STR-GRN-CU-500	THHN-12-GRN-19STR-CU-500S/R	157.89 M	78.95

#10 & #12 500' REELS ONLY

Please do not hesitate to contact us if we can be of any further assistance.

Sincerely Yours,

Thomas Bertone

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E&OE



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QUOTATION

JUP/037538

Valid From: 03 Apr 2023
Valid Until: 20 Mar 2023

Page 3/3

CITY ELECTRIC SUPPLY

HINTERLAND GROUP INC

2051 WEST BLUE HERON BOULEVARD
RIVIERA BEACH, FL
33404

Phone: 5616403503

Fax: 5616403504

Delivery Details:
REVISED QUOTE 37175 WITH
CHANGES MADE

Entered by: Thomas Bertone
Sales Rep: Thomas Bertone

Account No.: 01240948001
Order Number: LIGHTHOUSE

Qty	Item	Description	\$ Price Per	\$ Goods
-----	------	-------------	--------------	----------

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

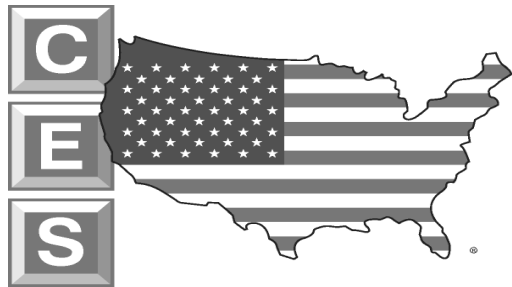
(QUOTE ONLY. NOT A RECEIPT) Goods Total:	\$10327.48
Tax Total:	\$669.65
Total:	\$10997.13

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E&OE



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222 Jupiter Street, Jupiter, FL,
33458.

Phone: 561-746-6603
Fax: 561-746-6929
Email: Jupiter0124@cityelectricsupply.com

QUOTATION

JUP/037608

Valid From: 10 Apr 2023
Valid Until: 28 Apr 2023

Page 1/2

CITY ELECTRIC SUPPLY

HINTERLAND GROUP INC

2051 WEST BLUE HERON BOULEVARD
RIVIERA BEACH, FL
33404

Phone: 5616403503

Fax: 5616403504

Delivery Details:

REVISED QUOTE 37154

EXPEDITE INCLUDED

ADDED DISCONNECTS AND PANELS

TO THE ATTACHED BOM

D9JP0223X3K1-0003

UPDATED QUOTE 37154 WITH EXPEDITE

INCLUDED

Entered by: Thomas Bertone

Sales Rep: Thomas Bertone

Account No.: 01240948001

Order Number: LIGHTHOUSE

Qty	Item	Description
1	C-H LOT COST	PER BOM D9JP0223X3K1-0003
1	C-H LOT COST	EXPEDITE ADDER
18-20 WEEK FOR PANELBOARD		
1	LANDIS & GYR 49105-02FL	320A 5J RGLS COMM METER SOCKET
6	LANDIS & GYR H60162	METER LUGS 4TO 600MCM
1	LANDIS & GYR 41105-02FL	320/400A OH/UG ALUM METER
2	EDISON ECNR60	60A 250V RK5 TD FUSE
2	C-H CHF250	2P 50A 120/240V 10KA BRKR
4	C-H CHF230	2P 30A 120/240V BRKR
14	C-H CHF120	1P 20A 120/240V BRKR
14	C-H CHF115	1P 15A 120/240V BRKR
3	C-H CHF220	2P 20A 120/240V BRKR

Please do not hesitate to contact us if we can be of any further assistance.

Sincerely Yours,

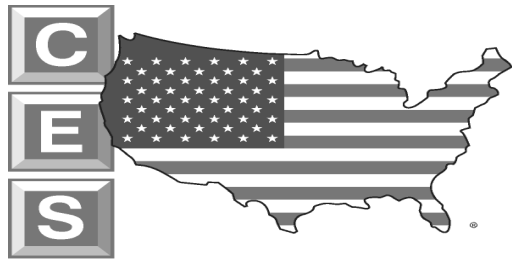
Thomas Bertone

Prices may be subject to change from manufacturer at the time of dispatch. When ordering please use above quotation number.

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E&OE



C.E.S. (Jupiter)
222 Jupiter Street, Jupiter, FL,
33458.

Phone: 561-746-6603
Fax: 561-746-6929
Email: Jupiter0124@cityelectricsupply.com

QUOTATION

JUP/037608

Valid From: 10 Apr 2023
Valid Until: 28 Apr 2023

Page 2/2

CITY ELECTRIC SUPPLY

HINTERLAND GROUP INC

2051 WEST BLUE HERON BOULEVARD
RIVIERA BEACH, FL
33404

Phone: 5616403503

Fax: 5616403504

Delivery Details:

REVISED QUOTE 37154

NO EXPEDITE INCLUDED

ADDED DISCONNECTS AND PANELS

TO THE ATTACHED BOM

D9JP0223X3K1-0003

UPDATED QUOTE 37154 WITH EXPEDITE

INCLUDED

Entered by: Thomas Bertone

Sales Rep: Thomas Bertone

Account No.: 01240948001

Order Number: LIGHTHOUSE

Qty	Item	Description
-----	------	-------------

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

(QUOTE ONLY. NOT A RECEIPT) Goods Total: \$33926.85

Tax Total: \$2085.62

Total: \$36012.47

Price is valid as a job lot only

Prices may be subject to change from manufacturer at the time of dispatch. When ordering please use above quotation number.

Seller assumes no responsibility for quoted materials meeting job specifications unless specifically stated in writing.

Substitution of similar quality material is permitted. All special order material is non-returnable or subject to the manufacturer's return goods policy.

E&OE

Summary Bill of Material

Project Name: JUPITER LIGHTHOUSE
General Order No:

Negotiation No: D9JP0223X3K1
Alternate No: 0003

Item No.	Qty	Product	Description
001	1	Panelboards	20 Circuits, 400A, Fully Rated, 120/240V 1Ph 3W, Copper Bus, 35kAIC, 400A, 3P Frame 3 Main Breaker[Top Fed], Surface Mounted

Catalog No P23C400BT22CH4X

Item No.	Qty	Product	Description
002	4	Safety Switches	SSW2

Catalog No DH222NWK316
Designation 60A 316SS FUSED 2P

Item No.	Qty	Product	Description
003	1	Safety Switches	SSW2

Catalog No DH223NWK316
Designation 100A 316SS FUSED 2P

Item No.	Qty	Product	Description
004	1	Safety Switches	SSW2

Catalog No DH224NWK316
Designation 200A 316SS FUSED 2P

Item No.	Qty	Product	Description
005	1	Loadcenters	CH PON LOADCENTER 100A, MAIN BREAKER, 22 SPACE

Catalog No CHP22B100X2
Designation 22 SPACE 100A MB FLUSH MNT

Item No.	Qty	Product	Description
007	1	Loadcenters	CH PON LOADCENTER, 200A, MAIN BREAKER, 42 SPACE

Catalog No CHP42B200X7
Designation 42 SPACE 200A MB FLUSH MNT

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.


General Information: Safety Switches

Global Specifications

System Voltage	240 VAC
Switch Type	Single Throw - Heavy Duty
Poles/Blades	2-Pole
Amperage	60
Protection	Fusible with Neutral
Enclosure Type	NEMA 4X (316 Stainless)
Special Paint	No Paint
Fuse Clips	H Fuse Clips
Switch Lugs	(1) 14-2
Fungus Proof Treatment	None
Lock-On Provision	None
Trapped Key Interlock	None
Upper Viewing Window	None
Fuse Pullers	None
Control Pole	None
Ground Lugs	(1) 14-4
Stainless Mechanism	None
Mill Duty	None

Cover Controls

QUANTITY	DESCRIPTION
Nameplate	
Safety Switch Catalog No.	DH222NWK316

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY THOMAS BERTONE		DATE 4/4/2023	 <i>Powering Business Worldwide</i>	
	APPROVED BY		DATE		
	VERSION 1.0.1.3		TYPE SSW2		DRAWING TYPE Customer Appr.
NEG-ALT Number D9JP0223X3K1-0003	REVISION 0	DWG SIZE A	G.O. 24	ITEM 002	SHEET 1 of 1



Powering Business Worldwide


General Information: Safety Switches

Global Specifications

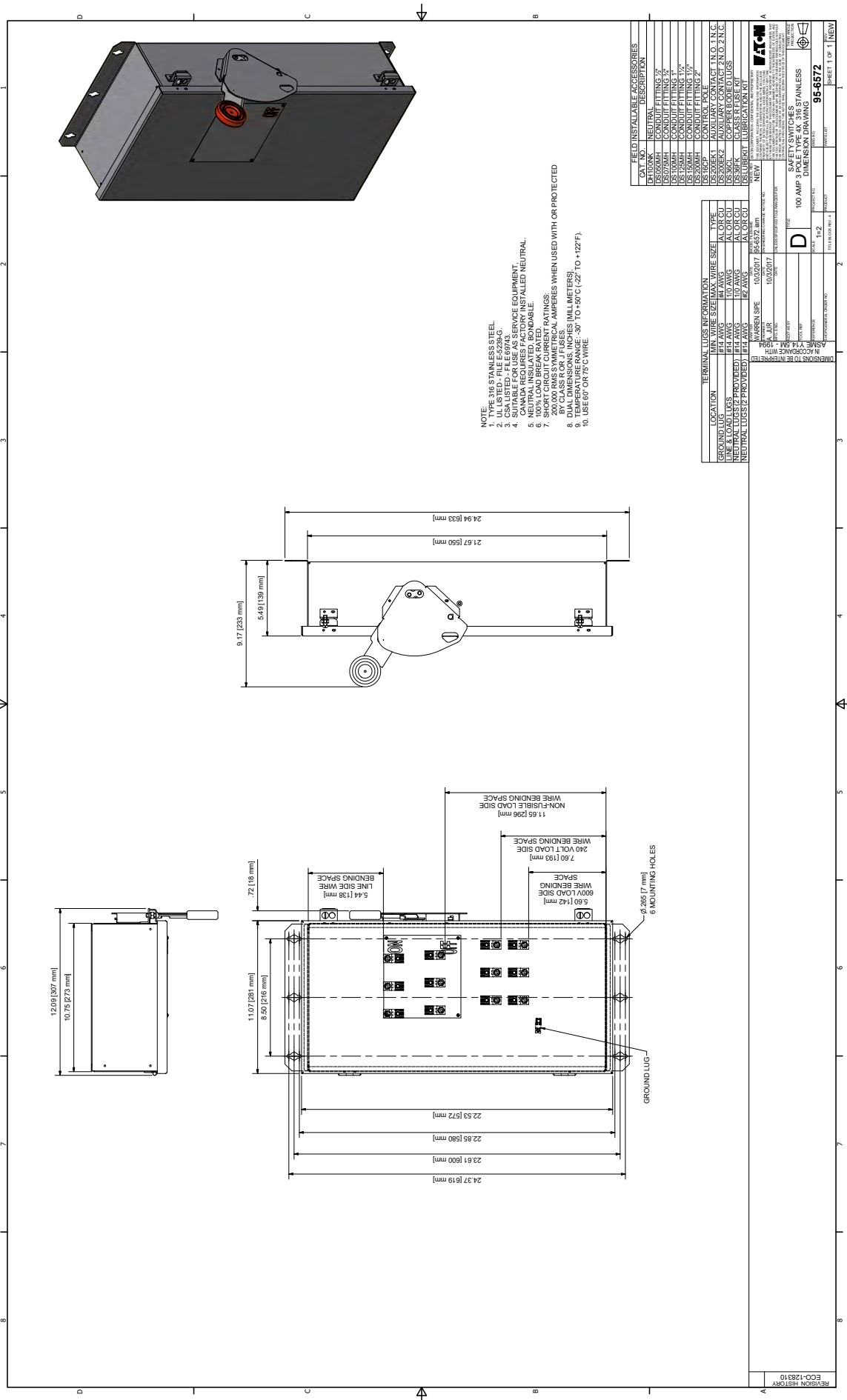
System Voltage	240 VAC
Switch Type	Single Throw - Heavy Duty
Poles/Blades	2-Pole
Amperage	100
Protection	Fusible with Neutral
Enclosure Type	NEMA 4X (316 Stainless)
Special Paint	No Paint
Fuse Clips	H Fuse Clips
Switch Lugs	(1) 14-1/0
Fungus Proof Treatment	None
Lock-On Provision	None
Trapped Key Interlock	None
Upper Viewing Window	None
Fuse Pullers	None
Control Pole	None
Ground Lugs	(1) 14-4
Stainless Mechanism	None
Mill Duty	None

Cover Controls

QUANTITY	DESCRIPTION
Nameplate	
Safety Switch Catalog No.	DH223NWK316

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY THOMAS BERTONE		DATE 4/4/2023	 <i>Powering Business Worldwide</i>	
	APPROVED BY		DATE	JOB NAME JUPITER LIGHTHOUSE	
				DESIGNATION 100A 316SS FUSED 2P	
	VERSION 1.0.1.3		TYPE SSW2		DRAWING TYPE Customer Appr.
NEG-ALT Number D9JP0223X3K1-0003	REVISION 0	DWG SIZE A 26		ITEM 003	SHEET 1 of 1

GO/NEG-Alt-Date: D9JP0223X3K1-0003-4/4/2023		Job Name: JUPITER LIGHTHOUSE
Item Number: 003	Catalog Number: DH223NWK316	Designation: 100A 316SS FUSED 2P




General Information: Safety Switches

Global Specifications

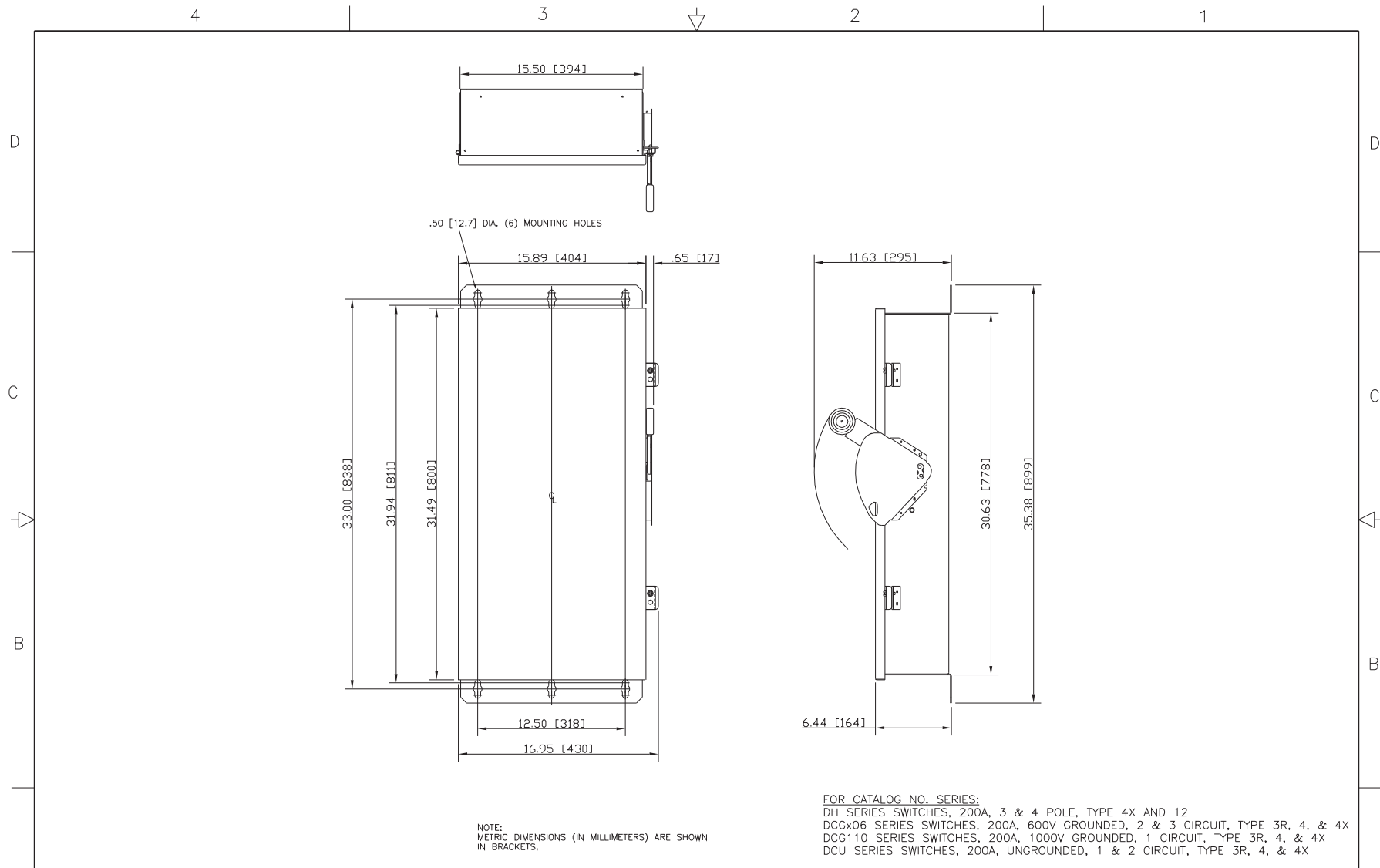
System Voltage	240 VAC
Switch Type	Single Throw - Heavy Duty
Poles/Blades	2-Pole
Amperage	200
Protection	Fusible with Neutral
Enclosure Type	NEMA 4X (316 Stainless)
Special Paint	No Paint
Fuse Clips	None
Switch Lugs	(1) 6-300
Fungus Proof Treatment	None
Lock-On Provision	None
Trapped Key Interlock	None
Upper Viewing Window	None
Fuse Pullers	None
Control Pole	None
Ground Lugs	(1) 14-4
Stainless Mechanism	None
Mill Duty	None

Cover Controls

QUANTITY	DESCRIPTION
Nameplate	
Safety Switch Catalog No.	DH224NWK316

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY THOMAS BERTONE		DATE 4/4/2023	 <i>Powering Business Worldwide</i>	
	APPROVED BY		DATE		
	VERSION 1.0.1.3		TYPE SSW2		DRAWING TYPE Customer Appr.
NEG-ALT Number D9JP0223X3K1-0003	REVISION 0	DWG SIZE A	G.O. 28	ITEM 004	SHEET 1 of 1

GO/NEG-Alt-Date: D9JP0223X3K1-0003-4/4/2023		Job Name: JUPITER LIGHTHOUSE
Item Number: 004	Catalog Number: DH224NWK316	Designation: 200A 316SS FUSED 2P



REVISION	REVISED DRAWING TITLE	B	ECO-0407481 2/21/12	UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES ONE PLACE DEC .01 TWO PLACE DEC .005 THREE PLACE DEC .0005 ANGLES VOLTAGE RESISTANCE AMPERAGE FORCE/LOAD/SPEED TIME TEMPERATURE DIMENSIONS TO BE INTERPRETED IN ACCORDANCE WITH ASME Y14.5M-1994 (SEE) PER DRAWING 6242700 (SEE) PER DRAWING 6242700 (SEE) PER DRAWING 6242700	DRAFTER/DESIGNER WARREN SIFE DATE 2/14/1997 APP'D J. F. BISCHOF DATE 2/14/1997 ENGR REF NEXT ASSY TOOL REF C CSPEC	EATON CORPORATION - CONFIDENTIAL AND PROPRIETARY NOTICE TO PERSONS RECEIVING THIS DOCUMENT: ANY AND ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF EATON CORPORATION AND IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF EATON CORPORATION. THIS DOCUMENT IS NOT TO BE USED IN ANY MANNER ADVERSE TO THE INTERESTS OF EATON AND THAT NO PORTION OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF EATON CORPORATION. IN THE CASE OF CONFLICTING CONTRACTUAL PROVISIONS, THIS NOTICE SHALL GOVERN THE STATUS OF THIS DOCUMENT. EATON TITLE SAFETY SWITCHES DIMENSION SHEET DWG NO 95-1372 SIZE FILENAME 95-1372.DWG SCALE .1875=1 PARTS LIST PRODUCT SHEET NO 1 OF 1 REV B © 2008 Eaton Corporation, All Rights Reserved
	FILE NO	ECO-0407481	2/21/12			



Powering Business Worldwide

D TYPE CH LOADCENTER RATINGS:

Enclosure:	Indoor NEMA 1
Incoming Main:	Type CH Main Breaker
Loadcenter Electrical Rating:	120/240 VAC, Single Phase
Loadcenter Ampere:	125 Amps Max
Number of Spaces & Circuits:	See Table on Page 2
Incoming Wire Range:	See Table on Page 2
Bus Bar Material:	Copper
Trim Type:	Ordered Separately, Except Where Noted (See Table on Page 2)
Trim Paint:	Sandalwood
Short Circuit Rating:	See Branch Breaker Ratings
Box Dimensions:	14.3"W x 3.9"D x "A" (See Table on page 2)

FEATURES:

C **Warranty** - Lifetime warranty on all CH Loadcenters and Breakers.

Silver Flashed Copper Bus - Provides superior conductivity, corrosion resistance and durability.

Mechanical Trip Flag - Trip indication on type CH Breakers (CHF).

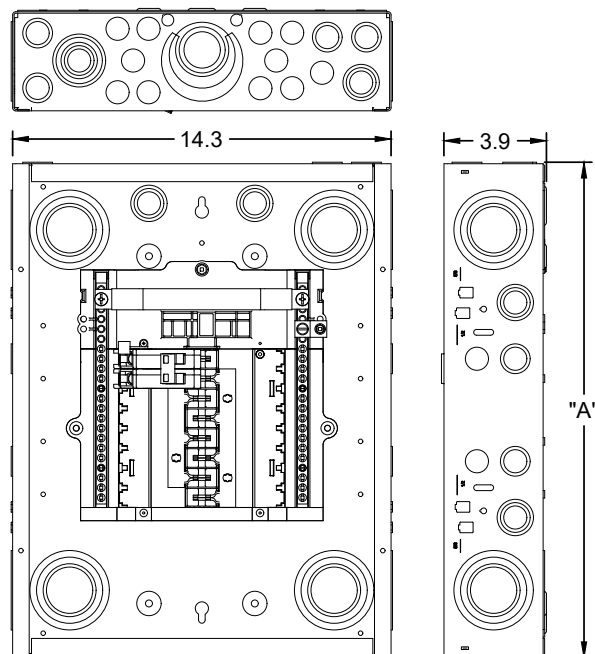
Diagnostic LED - CH AFCI Breakers include a diagnostic LED indication 1 of 7 trip codes.

Plastic Backpan - For Plug-On Neutral Branch Breakers.

Inboard Neutral Bar Assembly - For better management of load wires.

B OPTIONAL ACCESSORIES:

Catalog Number	Description
GBKP5	5 POS #14-4 Ground Bar
GBKP10	10 POS #14-4 Ground Bar
GBKP14	14 POS #14-4 Ground Bar
GBKP21	21 POS #14-4 Ground Bar
NL20	Neutral/Ground Lug #2/0 max
NLP20	Neutral/Ground Lug #2/0 max w/Bonding Tab
CHPFP	3/4" Filler Plate
CHPHD	Hold-down kit for Type CH breaker



A TITLE CH 3/4" LOADCENTER, CH MAIN BREAKER, INDOOR NEMA 1, 120/240 VAC, 1 PHASE DRAFTER/DESIGNER M.S. DATE (YYYY/MM/DD) 2018/09/27 A

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SIZE
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DRAWING
NUMBER

98-1200

REVISION
04



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INCHES

SCALE
1=6



SHEET
1 OF 2

DSD_AFM_PORT_ACAD_CUSTOMER.DWG

GO/NEG-Alt-Date:
D9JP0223X3K1-0003-4/4/2023

Job Name:
JUPITER LIGHTHOUSE

Item Number:
005

Catalog Number:
CHP22B100X2

Designation:
22 SPACE 100A MB FLUSH MNT



Powering Business Worldwide

LOADCENTER DETAILS


Catalog #	Dim "A"	Main Brkr Amps	Spaces / Circuits	Bus Bar Amps Max.	Wire Size Range Cu/Al 60°C or 75°C	Notes
CHP14B100	18.75	100	14/28	125	#6-1/0	Covers Included
CHP14B100X1	18.75	100	14/28	125	#6-1/0	
CHP18B100X2	21	100	18/36	125	#6-1/0	
CHP22B100	21	100	22/44	125	#6-1/0	Covers Included
CHP22B100X2	21	100	22/44	125	#6-1/0	
CHP22B100V29	21	100	22/44	125	#6-1/0	Covers Included
CHP22B125X2	21	125	22/44	125	#6-1/0	
CHP30B100X5	29.12	100	30/60	125	#6-1/0	
CHP30B125X5	29.12	125	30/60	125	#6-1/0	

When Sold Separately

CH LOADCENTER COVERS

Flush Covers	Surface Covers
CHPX1AF	CHPX1AS
CHPX2AF	CHPX2AS
CHPX5AF	CHPX5AS

Note: Catalog Numbers may have additional characters at the end which describe alternate details, including but not limited to the following: S, F, W, G, K, L, M, N, P and #s, DG, V and #s. Contact sales for those specific details when necessary.

TITLE CH 3/4" LOADCENTER, CH MAIN BREAKER, INDOOR NEMA 1, 120/240 VAC, 1 PHASE		DRAFTER/DESIGNER M.S.		DATE (YYYY/MM/DD) 2018/09/27	
EATON CORPORATION - CONFIDENTIAL AND PROPRIETARY NOTICE TO PERSONS RECEIVING THIS DOCUMENT AND/OR TECHNICAL INFORMATION THIS DOCUMENT, INCLUDING THE DRAWING AND INFORMATION CONTAINED THEREON, IS CONFIDENTIAL AND IS THE EXCLUSIVE PROPERTY OF EATON CORPORATION, AND IS MERELY ON LOAN AND SUBJECT TO RECALL BY EATON AT ANY TIME. BY TAKING POSSESSION OF THIS DOCUMENT, THE RECIPIENT ACKNOWLEDGES AND AGREES THAT THIS DOCUMENT CANNOT BE USED IN ANY MANNER ADVERSE TO THE INTERESTS OF EATON AND THAT NO PORTION OF THIS DOCUMENT MAY BE COPIED OR OTHERWISE REPRODUCED WITHOUT THE PRIOR WRITTEN CONSENT OF EATON. IN THE CASE OF CONFLICTING CONTRACTUAL PROVISIONS, THIS NOTICE SHALL GOVERN THE STATUS OF THIS DOCUMENT. © 2018 Eaton Corporation. All Rights Reserved		SIZE A	DRAWING NUMBER 98-1200	REVISION 04	
				UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES	
				SCALE 1=6 SHEET 2 OF 2	

DSD_AFM_PORT_ACAD_CUSTOMER.DWG

GO/NEG-Alt-Date: D9JP0223X3K1-0003-4/4/2023		Job Name: JUPITER LIGHTHOUSE	
Item Number: 005	Catalog Number: CHP22B100X2	Designation: 22 SPACE 100A MB FLUSH MNT	



Powering Business Worldwide

TYPE CH LOADCENTER RATINGS:

Enclosure:	Indoor NEMA 1
Incoming Main:	Type CSR Main Breaker
Loadcenter Electrical Rating:	120/240 VAC, Single Phase
Loadcenter Ampere:	225 Amps Max
Number of Spaces & Circuits:	See Table on Page 2
Incoming Wire Range:	See Table on Page 2
Bus Bar Material:	Copper
Trim Type:	Ordered Separately, Except Where Noted (See Table on Page 2)
Trim Paint:	Sandalwood
Short Circuit Rating:	See Branch Breaker Ratings
Box Dimensions:	14.3"W x 3.9"D x "A" (See Table on page 2)

FEATURES:

Warranty - Lifetime warranty on all CH Loadcenters and Breakers.

Silver Flashed Copper Bus - Provides superior conductivity, corrosion resistance and durability.

Mechanical Trip Flag - Trip indication on type CH Breakers (CHF).

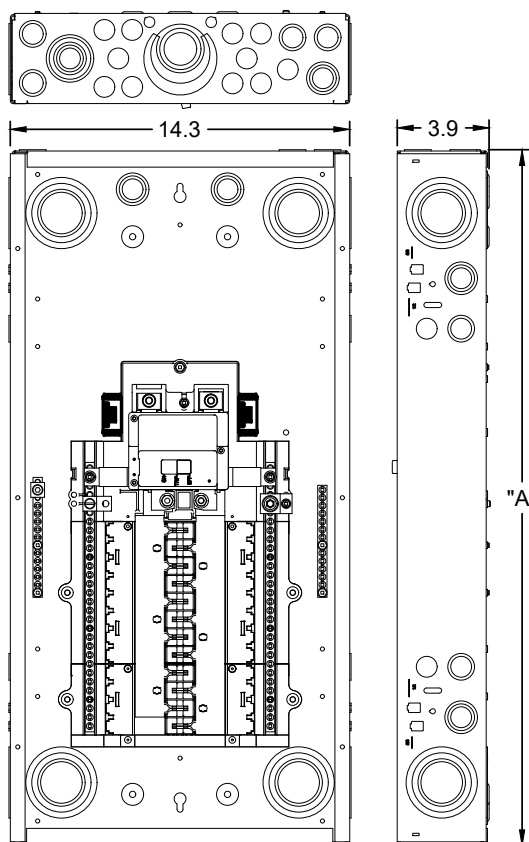
Diagnostic LED - CH AFCI Breakers include a diagnostic LED indication 1 of 7 trip codes.

Plastic Backpan - For Plug-On Neutral Branch Breakers.

Inboard Neutral Bar Assembly - For better management of load wires.

OPTIONAL ACCESSORIES:

Catalog Number	Description
GBKP5	5 POS #14-4 Ground Bar
GBKP10	10 POS #14-4 Ground Bar
GBKP14	14 POS #14-4 Ground Bar
GBKP21	21 POS #14-4 Ground Bar
NL20	Neutral/Ground Lug #2/0 max
NLP20	Neutral/Ground Lug #2/0 max w/Bonding Tab
NL300	Neutral/Ground Lug #300MCM max
NLP300	Neutral/Ground Lug #300MCM max w/Bonding Tab
CHPFP	3/4" Filler Plate
CHPHD	Hold-down kit for Type CH breaker



TITLE CH 3/4" LOADCENTER, CSR MAIN BREAKER, INDOOR NEMA 1, 120/240 VAC, 1 PHASE

DRAFTER/DESIGNER
M.S.

DATE (YYYY/MM/DD)
2018/09/27

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SIZE
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NUMBER

98-1201

REVISION
04



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DIMENSIONS IN
INCHES

SCALE
1=6

SHEET
1 OF 2

DSD_AFM_PORT_ACAD_CUSTOMER.DWG

GO/NEG-Alt-Date:
D9JP0223X3K1-0003-4/4/2023

Job Name:
JUPITER LIGHTHOUSE

Item Number:
007

Catalog Number:
CHP42B200X7

Designation:
42 SPACE 200A MB FLUSH MNT



Powering Business Worldwide

LOADCENTER DETAILS

Catalog #	Dim "A"	Main Brkr Amps	Spaces / Circuits	Bus Bar Amps Max.	Wire Size Range Cu/Al 60°C or 75°C	Notes
CHP24B150X5	29.12	150	24/48	225	#2-300 kcmil	
CHP24B200X5	29.12	200	24/48	225	#2-300 kcmil	
CHP32B150	34.12	150	32/64	225	#2-300 kcmil	Covers Included
CHP32B150X6	34.12	150	32/64	225	#2-300 kcmil	
CHP32B200	34.12	200	32/64	225	#2-300 kcmil	Covers Included
CHP32B200X6	34.12	200	32/64	225	#2-300 kcmil	
CHP32B225X6	34.12	225	32/64	225	#2-300 kcmil	
CHP42B200	37	200	42/84	225	#2-300 kcmil	Covers Included
CHP42B200X7	37	200	42/84	225	#2-300 kcmil	
CHP42B200V29	37	200	42/84	225	#2-300 kcmil	Covers Included
CHP42B225X7	37	225	42/84	225	#2-300 kcmil	
CHP60B200X9	45	200	60/120	225	#2-300 kcmil	
CHP60B225X9	45	225	60/120	225	#2-300 kcmil	

When Sold Separately

CH LOADCENTER COVERS

Flush Covers	Surface Covers
CHPX5BF	CHPX5BS
CHPX6BF	CHPX6BS
CHPX7BF	CHPX7BS
CHPX9BF	CHPX9BS

Note: Catalog Numbers may have additional characters at the end which describe alternate details, including but not limited to the following: S, F, W, G, K, L, M, N, P and #s, DG, V and #s. Contact sales for those specific details when necessary.

TITLE CH 3/4" LOADCENTER, CSR MAIN BREAKER, INDOOR NEMA 1, 120/240 VAC, 1 PHASE	DRAFTER/DESIGNER M.S.	DATE (YYYY/MM/DD) 2018/09/27
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EATON CORPORATION - CONFIDENTIAL AND PROPRIETARY NOTICE TO PERSONS RECEIVING THIS DOCUMENT AND/OR TECHNICAL INFORMATION THIS DOCUMENT, INCLUDING THE DRAWING AND INFORMATION CONTAINED THEREON, IS CONFIDENTIAL AND IS THE EXCLUSIVE PROPERTY OF EATON CORPORATION, AND IS MERELY ON LOAN AND SUBJECT TO RECALL BY EATON AT ANY TIME. BY TAKING POSSESSION OF THIS DOCUMENT, THE RECIPIENT ACKNOWLEDGES AND AGREES THAT THIS DOCUMENT CANNOT BE USED IN ANY MANNER ADVERSE TO THE INTERESTS OF EATON AND THAT NO PORTION OF THIS DOCUMENT MAY BE COPIED OR OTHERWISE REPRODUCED WITHOUT THE PRIOR WRITTEN CONSENT OF EATON. IN THE CASE OF CONFLICTING CONTRACTUAL PROVISIONS, THIS NOTICE SHALL GOVERN THE STATUS OF THIS DOCUMENT. © 2018 Eaton Corporation. All Rights Reserved			SIZE A	DRAWING NUMBER 98-1201	REVISION 04
			UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES		
			SCALE 1=6		SHEET 2 OF 2

DSD_AFM_PORT_ACAD_CUSTOMER.DWG

GO/NEG-Alt-Date: D9JP0223X3K1-0003-4/4/2023		Job Name: JUPITER LIGHTHOUSE
Item Number: 007	Catalog Number: CHP42B200X7	Designation: 42 SPACE 200A MB FLUSH MNT



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.
FROM: Kris Dean, P.E., Deputy Executive Director
DATE: May 11, 2023
SUBJECT: 9278 Indiantown Road/20 Acres – Site Remediation

The District's initial wastewater treatment facilities included advanced wastewater treatment at the current treatment plant location with effluent disposal to the headwaters of the Loxahatchee River. The effluent disposal system included a treated effluent main to the 20 Acres with discharge to a constructed lake. From the lake effluent flowed over a weir into a canal that discharged to the Loxahatchee River.

This disposal system was decommissioned in the 80's when the District transitioned to IQ water provided for irrigation use and alternate disposal via the deep injection well.

During the recent conceptual master planning for 9278 Indiantown Road/20 Acres a geotechnical survey was conducted onsite. The geotechnical survey identified silt layers up to 23" in depth on the lake bottom and subsequent testing revealed significantly elevated nitrogen and phosphorus concentrations in these flocculant (mucky) lake sediments. Based on sediment sampling remediation is not required; however, based on the geotechnical survey remediation consisting of capping the existing lakebed sediments under clean granular fill should be performed. This will entrap the silt and prevent entrainment of fine silt/sediment in the water column during wind and rain events, thereby decreasing water turbidity in the lake and the turbidity of lake outfall to the Loxahatchee River. Capping these sediments should also reduce mean nitrogen and phosphorus concentrations in the water column. Finally, capping these flocculant sediments should improve the ability of emergent and submergent vegetation to colonize the lake and provide significantly improved benthic habitat.

Also of concern is the condition of the existing outfall weir located on the south end of the lake. This outfall weir maintains the lake elevation and allows outfall of excess water to the Loxahatchee River. The weir and the channel walls that the weir is set in are failing. The existing weir and supporting structures were installed in the 1970s and have reach the end of their useful life. Both the supporting structures and weir should be demolished and alternate means provided for the lake outfall.

Dr. Matt H. Rostock
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

To meet these objectives, staff coordinated with KCI Technologies, Inc. to develop a site remediation plan. The proposed work authorization is attached for consideration. The work will include clearing and grubbing of the lake banks, demolition of the existing outfall weir and supporting structures, capping the lakebed silt and installing an earthen dam to replace the outfall weir.

Staff recommend the following motion:

“THAT THE DISTRICT GOVERNING BOARD authorize the Executive Director to execute KCI Technologies, Inc. work authorization dated May 3, 2023 in the amount of \$83,120.00 and a contingency of \$8,000.00 under their continuing contract for professional engineering services 20-001-PROFSERVICES.”



ISO 9001:2015 CERTIFIED

ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

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

April 12, 2023
Revised 5/3/23

Kris Dean, P.E.
Deputy Executive Director/Director of Engineering
Loxahatchee River Environmental Control District
2500 Jupiter Park Drive, Jupiter, FL 33458
Kris.Dean@lrecd.org
(561) 401-4024

PROJECT UNDERSTANDING:

At the February 16, 2023 Progress Meeting, KCI presented the “Loxahatchee River District Environmental Engagement Campus – Conceptual Master Plan”. Within the 19 - page document there were four (4) phases of construction to implement the full buildout of the envisioned development. The 4 phases of construction are as follows:

Phase 1 - Remediation
Phase 2 - Site Amenities
Phase 3 - Storm Drainage and Landscaping
Phase 4 - Site Development

KCI was asked by the Client to provide site civil design and permitting services only for Phase 1 Remediation.

Post-design services and Geotechnical testing, analysis, and monitoring are not a part of this agreement.

SCOPE OF SERVICES:

KCI will perform the following services:

Task 1 Kickoff Meeting

KCI will attend a kick-off meeting with the Client whereby discussions will address the overall project, assign responsibilities, contacts and issue the NTP.

Task 2 Data Collection

2.1 Identify Design Components

Employee-Owned Since 1988

KCI will initially confirm with the Client the design components that were identified in the Conceptual Master Plan and receive any client input regarding these components. The master plan identified the components for design as:

- Clearing and grubbing
Removal of vegetation at pond edge
- Site Demolition
Removal of the existing fixed weir outfall structure
- Earthwork
Special fill (off-site imported sand)
Remove the existing fixed weir
New earthen dam (replace the demolished fixed weir outfall)

2.2 Review Geotechnical Report

KCI will review the Geotechnical Report prepared by Terracon, dated 8/3/21, to determine the soils strata and types of soils to assist in decision making as to the best methodology to (a) cap the sediments in the lake with clean fill or (b) excavation and reuse of the removed sediments elsewhere on the site.

Task 3 Schematic Design Plans (30% Submittal)

In conformance with the requirements of the Town of Jupiter and Palm Beach County relative to site plan submittal, KCI shall prepare Schematic Engineering Plans (30% Complete) based upon the Conceptual Master Plan. Schematic engineering plans are to include the level of detail necessary to show site grading, lake slopes, embankments and stormwater management amenities to maintain off-site outfall during heavy rainfall events for the Phase 1 Remediation components previously identified in Task 2 above.

Site items to be included in the site civil design plans:

- Cover Sheet
- General Notes
- Grading and Drainage Plan
- Earthwork Plan
- Clearing and Grubbing Plan
- Demolition Plan
- Erosion Control Plan
- Cross Section Plan
- Construction Details

Schematic engineering design shall comply with the rules and regulations of the Town of Jupiter and Palm Beach County jurisdictional engineering requirements.

Task 4 Design Development Plans (60% Submittal)

Based upon preliminary Schematic Engineering Plans, KCI shall prepare Design Development Engineering Plans (60% Complete) with sufficient detail showing plans, grading and remediated lake cross sections. KCI will address design conflicts with existing conditions and coordinating with jurisdictional agencies. KCI will provide Outline Technical Specifications.

Task 5 Meetings

KCI will attend progress meetings requested by the Client and other meetings required to review the work tasks associated with the engineering elements of this proposal. KCI will also attend requested meetings with jurisdictional agencies as needed. KCI will prepare agendas for each meeting and meeting minutes KCI will attend up to six (6) meetings in total for this task.

Task 6 Construction Document Plans (90% Submittal)

6.1 Construction Document Plans

Based upon Design Development Engineering Plans, KCI shall prepare Construction Document Engineering Plans (90% Complete) sufficient for permit application submittals and construction of the proposed improvements. Plans are to include details for the various scope elements included in the schematic plans, i.e., grading and drainage improvements for the remediation phase only. On-site water, fire lines and sewer plans are not part of this phase of work and this agreement. Any off-site improvements are not included in this scope of work. If required, KCI will provide the Client with a proposal for any additional scope items.

6.2 Permitting Applications

KCI will provide technical criteria, written description and design data for use in filing applications for permits relative to KCI's scope of services with the governmental agencies having jurisdiction to review the design of the project. KCI will respond to up to 3 rounds of RAIs from the jurisdictional agencies. Application and permit fees are the responsibility of the Client and are not included within this agreement. The following regulatory agencies' permit applications or informational submittals will be provided for the design:

- Palm Beach County
- South Florida Water Management District (SFWMD)
- South Indian River Water Control Management District (SIRWCMD)

Task 7 Final Bid Documents (100% Submittal)

KCI will provide the final bid documents for contractor procurement consisting of 100% complete plans, technical specifications, including Division 1 - General Requirement and Front-End Documents, to be provided by the Client's Procurement Division.

Task 8 Bid Assistance

KCI shall attend a Pre-Bid Meeting, with contractors interested in bidding, to discuss the specifics of the intended scope of work and answer any Request for Information (RFI) from the contractors at the meeting and during the subsequent bid period. KCI shall review the submitted bids for compliance with the contract documents, develop a tabulation of bids for Client's use and recommendation of Bid Award.

Task 9 Project Schedule and Monthly Reports

KCI has developed Microsoft Project schedule (attached hereto) starting with the NTP. Monthly progress reports and update progress schedule will be prepared and submitted with our monthly invoice that will be due by the 5th of each month. The schedule will indicate the percent complete of each task.

Lump sum for Tasks 1-9\$83,120.00

Design Team/KCI Personnel Assigned

Todd Mohler, RLA	Contract Manager
Robert Zuccaro, P.E. ENV SP	Sr. Project Manager, Civil
Nicholas Leone, P.E.	Project Engineer
Jonathan Geiger, EIT, ENV SP	Design Engineer
Byron Reynolds	Design Engineer
Jolly Hallem	Project Assistant

Resumes of key task leaders were submitted as part of the initial CCNA selection process.

FEES AND PAYMENTS

The following fees are for the performance of the Services listed in the Scope of Services above, at the location described above. The fees listed in this FEES AND PAYMENTS section do not cover any Additional Services (defined below), or any other services which are not specifically described as part of the Services.

KCI will submit monthly invoices for the Services and Additional Services rendered and the Direct Expenses and Charges incurred. Client agrees to comply with the PAYMENT terms in the General Provisions.

KCI's fee for the Services listed in the Scope of Services above will be a lump sum fee of **\$83,120.00 for Tasks 1-9**. Fees will be invoiced monthly on the basis of percentage of work performed. The lump sum fee does not include direct expenses associated with the performance of these Services.

DIRECT EXPENSES AND CHARGES

In addition to the above fees, Client shall also pay KCI the following expenses and charges:

1. Cost plus fifteen (15) percent for fees associated with the filing of applications and permits and for reproductions and prints, special mailings and courier fees as requested or required in KCI's normal performance of the Services.
2. 56 cents per mile for all automobile mileage associated with KCI's normal performance of the Services.
3. Cost plus fifteen (15) percent for any subcontract services and equipment rental, if required. The determination as to whether subcontract services are required shall be made solely by KCI.

Based upon currently available information, KCI estimates that the fees for the Direct Expenses and Charges associated with the performance of the Services will be approximately:

Estimated Direct Expenses and Charges.....\$300.00

ADDITIONAL SERVICES

Experience indicates that certain additional services (“Additional Services”) may be required or necessary that KCI cannot presently determine or estimate. For this reason, the fee for Additional Services is not included in the "Fees and Payments" section of this Proposal. Further, the performance of these Additional Services is not included in the Scope of Services unless expressly described in that section of this Proposal.

These Additional Services are caused by many factors including, but not limited to, the following examples: discretion of the Client and/or its construction contractors possibly from decision to deviate from current policies and standards; or, a reviewing agency/regulator determination. For clarity, Additional Services, for the purposes of this Proposal, include the common understanding and purpose of the terms: extras, change orders, and add-ons.

For Client's reference, the following are some examples of Additional Services that may be necessary to complete the Services but that are expressly excluded from the Scope of Services listed above. In view of their exclusion from this Proposal, KCI is not and shall not be held responsible for their performance as Services within the Scope of Services.

Post-design services

Geotechnical testing, analysis, and monitoring

Off-site work required by a County or other governmental agency.

Work revisions on any Scope of Services items that are required as a result of a change requested by Client after previous approval by it or any approving agencies.

Re-work or revisions of work due to changes in policies or regulations during the progress of the work.

Traffic impact studies

All work performed prior to the date of this agreement.

Expert witness testimony.

In the event staff is to be utilized for additional services, then KCI's fee for the Services performed by staff will be the following hourly rates.

FEES AND PAYMENTS FOR ADDITIONAL SERVICES

Fees and payments for Additional Services shall be in addition to any fees and payments for the Services and shall be billed and paid on the same fee and payment terms described for the Services or as mutually agreed upon in writing when the Additional Services are ordered by the Client.

CONCLUSION

KCI welcomes the opportunity to collaborate with **LOXAHATCHEE RIVER DISTRICT** on this project. The KCI point of contact (“POC”) if you have questions about this Proposal, the General Provisions, or any other attachments is Todd Mohler., Sr. Project Manager, who may be contacted at either (954) 776-1616 or Todd.Mohler@kci.com.

KCI welcomes the opportunity to serve **LOXAHATCHEE RIVER DISTRICT** and looks forward to working with you on this project.

Very truly yours,

Bruce Reed, RLA
KCI Technologies, Inc.
Regional Practice Leader

Todd Mohler, RLA
KCI Technologies, Inc.
Sr. Project Manager

ACCEPTANCE

By signing this Proposal, you are accepting the Proposal, General Provisions, and any other attachments and, therefore, agreeing to a legally binding contract with KCI Technologies, Inc.






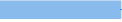





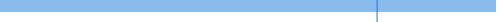


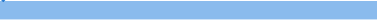


The person executing this contract on behalf of the Client does hereby warrant that he/she has full authority to do so.

This contract will go into effect as of the date of the signature below. Please provide a copy of the signed contract to the KCI POC.

Name

Title

Date

ID	 Task Name	Duration	Start	Finish	% Complete	Qtr 2, 2023			Qtr 3, 2023			Qtr 4, 2023			Qtr 1, 2024			Qtr 2, 2024			Qtr 3, 2024		
						Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	 Kickoff Meeting	0 days	Mon 5/15/23	Mon 5/15/23	0%		◆ 5/15																
2	Data Collection	15 days	Mon 5/15/23	Fri 6/2/23	0%																		
3	Identify Design Components	15 days	Mon 5/15/23	Fri 6/2/23	0%																		
4	Review Geotechnical Report	15 days	Mon 5/15/23	Fri 6/2/23	0%																		
5	Schematic Design Plans (30% Submittal)	30 days	Mon 5/15/23	Fri 6/23/23	0%																		
6	Client Review	15 days	Mon 6/26/23	Fri 7/14/23	0%																		
7	Design Development Plans (60% Submittal)	60 days	Mon 7/17/23	Fri 10/6/23	0%																		
8	Client Review	15 days	Mon 10/9/23	Fri 10/27/23	0%																		
9	Constr. Documents (90% Submittal)	120 days	Mon 10/30/23	Fri 4/12/24	0%																		
10	Construction Document Plans	90 days	Mon 10/30/23	Fri 3/1/24	0%																		
11	Permitting Application	120 days	Mon 10/30/23	Fri 4/12/24	0%																		
12	Client Review	15 days	Mon 3/4/24	Fri 3/22/24	0%																		
13	Final Bid Documents (100% Submittal)	30 days	Mon 4/15/24	Fri 5/24/24	0%																		
14	Bid Assistance	90 days	Mon 5/27/24	Fri 9/27/24	0%																		
15	 Project Schedule and Monthly Reports	360 days	Mon 5/15/23	Fri 9/27/24	0%																		


Project: Engineering Services
Tentative Project Schedule
Date: 05/08/23


Task


Split


Milestone

Summary











Project Summary


Inactive Task


Inactive Milestone

Inactive Summary











Manual Task


Duration-only


Manual Summary Rollup

Manual Summary











Start-only


Finish-only


External Tasks

External Milestone












Deadline

Progress

Manual Progress









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: D. ALBREY ARRINGTON, EXECUTIVE DIRECTOR
DATE: MAY 9, 2023
SUBJECT: UPDATES TO STAFF AWARD POLICY

In 2018 the Governing Board authorized the LRD Staff Award Policy. That policy was placed on our policy list with a review period of 5 years; therefore, that policy is up for review.

The Staff Award Policy has been revised to fit our new policy template and it has been revised to provide for vacation leave to be used as an incentive for the July Performance Awards (commonly referred to as our "Shoutout Awards"). These awards are based upon work performance, describes the performance standards and evaluation process. All employees will be notified of this policy, and all employees, excluding those on a performance improvement plan, will be considered for these awards.

The revised Staff Award Policy is attached for your review. The original 2018 Staff Award Policy is also provided.

I offer the following motion for your consideration:

"THAT THE GOVERNING BOARD approve the updated Staff Award Policy and authorize the Executive Director to implement the policy with an effective date of May 19, 2023."


Dr. Matt H. Rostock
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

	LOXAHATCHEE RIVER DISTRICT	Doc No:	LRD-POL-HR-10.00
		Effective Date	05/19/2023
		Revision History:	11/15/2018
Author: Michael Navicky, D. Albrey Arrington		Revision No.	1
		Review Date:	May 2028
Issuing Department: Human Resources		Page:	Page 1 of 2

STAFF AWARD POLICY

Purpose

The purpose of this policy is to incentivize and reward excellent performance among LRD employees.

Policy

It is the policy of the LRD to recognize and reward meritorious performance among staff members. Annually, the following awards may be distributed to deserving staff members:

- A. July Performance Awards: to recognize the top 10 employees demonstrating the most exemplary efforts and outcomes that achieve the District's mission or values. Executive Director will receive nominations and input from staff to identify the nominees most deserving of the award. Award amount is 8 hours of vacation leave and distributed in July.
- B. Brienza Award: to recognize the single most exemplary effort and outcome achieved by a District employee with > 3 years of fulltime employment by the District. Executive Director will receive nominations and input from staff to identify the nominee most deserving of the award. Award amount is fixed in annual budget (e.g., \$1,000) and distributed in December.
- C. December Performance Awards: to recognize all fulltime employees in good standing. Executive Director will consult with Human Resources to identify applicable employees. Award amount is fixed in annual budget (e.g., \$250 per employee) and distributed in mid-December.
- D. Service Award: A cash payment of \$25 per year of service commencing upon completion of the 5th year of service and occurring each additional 5 years of service (years 5, 10, 15, 20, etc). Service Awards are distributed in July.
- E. Yerkes Award: (*previously known as the Director's Award*) to recognize the single most exemplary effort and outcome achieved by a District employee with ≤ 3 years of fulltime employment by the District. Executive Director will receive nominations and input from staff to identify the nominee most deserving of the award. Award amount is fixed in annual budget (e.g., \$1,000) and distributed in December.

Definitions

- A. Fulltime: an employee who works more than 30 hours for the District each week and is not classified as part-time, temporary, or seasonal.
- B. Good Standing: an employee in good standing may not be on an active performance improvement plan.
- C. Nomination: Any District employee may nominate themselves or any other District employee. Nominations can be provided via an electronic survey, email, or verbally.

Authority: LRECD Enabling Act Section 6; Chapter 31-1; in compliance with FS 215.425

Date Approved by Governing Board: 5/18/2023

Relevant Procedures

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

- A. Service Awards Procedure
- B. Shout Out Survey Procedure

Relevant Policies

The following policies may relate to this policy:

- A. LRD Personnel Policies & Procedures

Applicability (optional)

This policy applies to all fulltime employees in good standing, i.e., not on a performance improvement plan. Any award amount, i.e., extra compensation, will not be included in the employee's base rate of pay or carried forward in subsequent years. Awards are earned on the date that they are paid and may not be paid to anyone who is not actively employed by the District.

Policy Questions

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

Loxahatchee River District

Policy: Staff Award Policy	Effective Date: 11/16/2018
Purpose: To incentivize excellent performance among LRD employees	
Policy #: <i>to be determined</i>	
<p>Procedures:</p> <ol style="list-style-type: none"> 1. Nomination: Any LRD staff may nominate any full-time LRD staff member. Nominations should be made in writing or verbally to the Executive Director and/or Human Resources. Employees are encouraged to nominate their colleagues' noteworthy work performance to achieve the District's mission and exhibit the District's values. 2. Awards: <ol style="list-style-type: none"> a. Annual Performance Award (i.e., lump-sum bonus for meritorious performance) (July): Amount fixed in annual budget <ol style="list-style-type: none"> i. Performance Standard: Exemplary effort (i.e., work) to achieve the District's mission and/or exemplary efforts to live the District's values. ii. Evaluation Process: Executive Director will consult with staff to assess work performance and determine the nominees most deserving of the award. b. December Performance Award (December): Amount fixed in annual budget <ol style="list-style-type: none"> i. Performance Standard: Full-time employee in good standing ii. Evaluation Process: All full-time employees in good standing, e.g., not on a performance improvement plan or other documented performance deficiency, will be recognized in December. c. Director's Award & Brienza Award (December): Amount fixed in annual budget <ol style="list-style-type: none"> i. Performance Standard: These two awards are given annually to recognize the 'best' examples of LRD employees going above and beyond to achieve the District's mission and/or exhibit the District's values. Full-time LRD employees with less than 3 years tenure at LRD are candidates for the Director's Award, while LRD employees with more than 3 years tenure at LRD are candidates for the Brienza Award. ii. Evaluation Process: Executive Director will consult with staff to assess work performance and determine the nominees most deserving of the award. <p><i>Any award amount, i.e., extra compensation, shall not be included in the employee's base rate of pay or be carried forward in subsequent years. Bonuses are earned on the date that they are paid; employees who leave the District for any reason before a Bonus is paid forfeit the Bonus.</i></p>	
Authority: LRECD Enabling Act Section 6; Chapter 31-1; in compliance with FS 215.425	
Approved by Governing Board	Date: 11/15/2018
Revised:	



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: May 11, 2023
Subject: Policy Review and Update: Non-Residential Billing By Water Use

This is a request for the Board's 5-year review and approval of the District's policy to specify the principal of action for the computation of non-residential sewer bills.

In May 2018 the Governing Board approved our policy that specifies the calculation of quarterly sewer service charges based upon the 12-month rolling average of actual potable water used at the property. While this action is primarily the scheduled 5-year review of the policy, and conversion to our newer policy layout, we offer one substantive addition of an alternative bill computation.

With the forthcoming activation of our new customer information and billing system, our non-residential customers will have the option to have their sewer bill computed based on the sum of the most recent three (3) months of water consumption (instead of the default 12-month rolling average), multiplied by the present rate. Having this option for bill computation is the most common request by our non-residential customers. This option also aligns us with similar bill computation options provided to our customers by Florida Power and Light under their Budget Billing and Actual Bill programs. Provisions for switching billing methods are included in the policy text.

This policy review and changes are timely as we prepare to activate our new customer information and billing system in the coming weeks.

Therefore, staff offers the following motion for consideration:

"THAT THE DISTRICT GOVERNING BOARD approves the attached, revised Non-Residential Billing By Water Use Policy with an effective date of July 1, 2023.

Dr. Matt H. Rostock
CHAIRMAN


Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

Water Reclamation – Environmental Education – River Restoration

	LOXAHATCHEE RIVER DISTRICT	Doc No:	LRD-POL-IS-5.00
		Effective Date	5/17/2018
		Revision History:	5/18/2023, effective 7/1/2023
Author: Bud Howard		Revision No.	2
		Expiration Date:	None
Issuing Department: Customer Service		Page:	Page 1 of 2

NON-RESIDENTIAL BILLING BY WATER USE POLICY

Purpose

To specify the principal of action for the computation of non-residential sewer bills.

Policy

Rule 31-10.007(1)(b) defines the billing rate for non-residential units. For non-residential units with a metered water supply, the District calculates quarterly sewer service charges based upon the 12-month rolling average (the default calculation method), or 3-month sum (upon request), of actual potable water used at the property.

For non-residential units that do not have a metered water supply, or that have not established a minimum of one (1) month of water use history, or certain other uses where the water consumption is not representative of flow to sewer (e.g., public parks, pool backwash; marinas and pump out station) the quarterly sewer service charge is a flat rate based on the number of equivalent connections established in the developer agreement.

Relevant Policies & Rules LRD Rules Chapter 31-10.007(1)(b)

Relevant Procedures

1. To provide a more stable quarterly bill, the District's default quarterly sewer bill for non-residential customers is based upon a 12-month rolling average of water consumption (often termed budget billing or balanced billing). The District computes the quarterly sewer services bill by calculating the average monthly potable water used over the past 12 months, multiplied by the present rate, then multiplied by 3 to for the quarterly bill. The sewer service charge is based on the water consumption schedule (table below) to provide time for data processing.

Quarterly Billing	Water Use From	Water Use To
Q1 – January	December 1	November 30
Q2 – April	March 1	February 28
Q3 – July	June 1	May 31
Q4 - October	September 1	August 31

Authority: Chapter 31-10

Date Approved by Governing Board: 5/18/2023

2. Following the activation of the District's new customer information and billing system, non-residential customers have the option to have their sewer bill computed based on the sum of the most recent three (3) months of water consumption, multiplied by the present rate. The sewer service charge is based on the following water consumption schedule to provide time for data processing:

<u>Quarterly Billing</u>	<u>Water Use From</u>	<u>Water Use To</u>
Q1 – January	September 1	November 30
Q2 – April	December 1	February 28
Q3 – July	March 1	May 31
Q4 - October	June 1	August 31

3. A customer may request to switch bill computation methods. If a customer requests to switch computation methods, the deferred balance - the difference between the 12-month average computation versus the 3-month actual bill computation – shall be applied to the account as a credit or debit. Any debits on the account must be satisfied prior to switching methods, including any debit from the deferred balance transfer. Customers may not change bill computation methods more than once every 24 months.

Protest

The mechanism for an Owner to formally protest the outcome of this policy is LRD Rule 31-10.009(8) Administrative Credit and 31-1.008 Quasi-Judicial Hearing Procedures.

Applicability: Customer Service

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

Loxahatchee River District Policy

Department: Customer Service	Effective Date: May 17, 2018															
Policy: Non-Residential Billing by Water Use																
Purpose: To memorialize the established method for computation of non-residential sewer service bills.																
Policy #:																
<p>Rule 31-10.007(1B) defines the billing rate for non-residential customers as the cost per thousand gallons of metered water usage (i.e., used water is discharged to the sewer and treated by the District). The District calculates quarterly sewer service charges based on actual potable water used at the property.</p> <p>To provide a more stable quarterly bill, the District's quarterly sewer bill is based upon a 12-month rolling average of water consumption (often termed budget billing or balanced billing). The District computes the quarterly sewer services bill by calculating the average monthly potable water used over the past 12 months, multiplied by the present rate, then multiplied by 3 to for the quarterly bill. The sewer service charge is based on the following water consumption schedule to provide time for data processing:</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Quarter Billing</th> <th style="text-align: left; border-bottom: 1px solid black;">Water Use From</th> <th style="text-align: left; border-bottom: 1px solid black;">Water Use To</th> </tr> </thead> <tbody> <tr> <td>Q1 – January</td> <td>December 1</td> <td>November 30</td> </tr> <tr> <td>Q2 – April</td> <td>March 1</td> <td>February 28</td> </tr> <tr> <td>Q3 – July</td> <td>June 1</td> <td>May 31</td> </tr> <tr> <td>Q4 - October</td> <td>September 1</td> <td>August 31</td> </tr> </tbody> </table> <p>Customers that do not have a metered water supply, or that have not established a minimum of 1 month of water use history, or certain other uses where the water consumption is not representative of flow to sewer (e.g., public parks, pool backwash; marinas and pump out station) the sewer charge is a flat rate based on the number of equivalent connections established in the developer agreement.</p>		Quarter Billing	Water Use From	Water Use To	Q1 – January	December 1	November 30	Q2 – April	March 1	February 28	Q3 – July	June 1	May 31	Q4 - October	September 1	August 31
Quarter Billing	Water Use From	Water Use To														
Q1 – January	December 1	November 30														
Q2 – April	March 1	February 28														
Q3 – July	June 1	May 31														
Q4 - October	September 1	August 31														
Authority: Chapter 31-10.007(1b)																
Authorized: <input type="checkbox"/> Governing Board	Date: May 17, 2018															
Approved: <input type="checkbox"/> Executive Director	Date: May 17, 2018															
Revised:																



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: May 11, 2023
Subject: Policy Review and Update: Multi-Meter Non-Residential Billing

This is a request for the Board's 5-year review and approval of the District's policy to specify the principal of action for the computation of non-residential sewer bills for customers with multiple water meters serving the property.

In May 2018 the Governing Board approved our policy that specifies the calculation of quarterly sewer service charges by the sum of water use for all meters serving the property.

This action is the scheduled 5-year review of the policy, and conversion to our newer policy layout, with no substantive changes.

Therefore, staff offers the following motion for consideration:

"THAT THE DISTRICT GOVERNING BOARD approves the attached Multi-Meter Non-Residential Billing Policy with an effective date of May 18, 2023.

Dr. Matt H. Rostock
CHAIRMAN


Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

Water Reclamation – Environmental Education – River Restoration

	LOXAHATCHEE RIVER DISTRICT	Doc No:	LRD-POL-IS-6.00
		Effective Date	5/17/2018
		Revision History:	5/18/2023
Author: Bud Howard		Revision No.	2
		Expiration Date:	None
Issuing Department: Customer Service		Page:	Page 1 of 1

MULTI-METER NON-RESIDENTIAL BILLING POLICY

Purpose

To specify the principal of action for the computation of non-residential sewer bills for customers with multiple water meters serving the property

Policy

Quarterly sewer service charges for non-residential customers are computed based on metered water usage per Rule 31-10.007(1)(b) and Non-residential Billing by Water Use Policy.

Commercial properties designated by a single County parcel are assigned one District account number but may be served by multiple potable water meters. Quarterly sewer service charges shall be the computed by the sum of water use for all meters serving the property.

At the owner's request, the District will provide a report summarizing water use by water meter to provide clarity in the data used to compute the quarterly sewer service charges.

Protest:

1. The mechanism for an Owner to formally protest the outcome of this policy is LRD Rule 31-10.009(8) Administrative Credit and 31-1.008 Quasi-Judicial Hearing Procedures.

Relevant Policies & Rules: LRD Rules Chapter 31-10.007(1)(b)

Applicability: Customer Service

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

Authority: Chapter 31-10

Date Approved by Governing Board: 5/18/2023

Loxahatchee River District Policy

Department: Customer Service	Effective Date: May 17, 2018
Policy: Multi-meter Non-Residential Billing	
Purpose: To clarify the computation of sewer service charges for non-residential customers with multiple water meters serving the property.	
Policy #:	
<p>Quarterly sewer service charges for non-residential customers are computed based on metered water usage (per Rule 31-10.007(1b) and Non-residential Billing by Water Use Policy).</p> <p>Commercial properties designated by a single County parcel are assigned one District account number but may be served by multiple water meters from the local municipal water provider. Quarterly sewer service charges shall be the computed by the sum of water use for all meters serving the property.</p> <p>At the owner's request, the District will provide a report summarizing water use by water meter to provide clarity in the data used to compute the quarterly sewer service charges.</p>	
Authority: Chapter 31-10.007(1b)	
Authorized: <input type="checkbox"/> Governing Board	Date: May 17, 2018
Approved: <input type="checkbox"/> Executive Director	Date: May 17, 2018
Revised:	



LOXAHATCHEE RIVER DISTRICT

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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: May 11, 2023
Subject: Policy Review and Update: End Sewer Service Charges

This is a request for the Board's 5-year review and approval of the District's policy to specify the principal of action to end sewer service charges.

In May 2018 the Governing Board approved our policy that specifies the customer is responsible for sewer service charges *including* the quarter sewer services end. This policy complements our policy to initiate sewer service charges that specifies sewer charges begin the quarter *following* certificate of occupancy, taking ownership, or other condition described in the policy.

This action is the scheduled 5-year review of the policy, and conversion to our newer policy layout, with no substantive changes.

Therefore, staff offers the following motion for consideration:

"THAT THE DISTRICT GOVERNING BOARD approves the attached End Sewer Service Charges Policy with an effective date of May 18, 2023.

Dr. Matt H. Rostock
CHAIRMAN


Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

Water Reclamation – Environmental Education – River Restoration

	LOXAHATCHEE RIVER DISTRICT	Doc No:	LRD-POL-IS-7.00
		Effective Date	5/17/2018
		Revision History:	5/18/2023
Author: Bud Howard		Revision No.	2
		Expiration Date:	None
Issuing Department: Customer Service		Page:	Page 1 of 1

END SEWER SERVICE CHARGES POLICY

Purpose

To specify the principal of action to end sewer service charges. Note: this complements the Policy to Initiate Sewer Service Charges.

Policy

Because sewer service charges begin the quarter *following* Certificate of Occupancy (CO), taking ownership, or other condition specified in the Initiate Sewer Services Policy, the customer is responsible for sewer service charges *including* the quarter sewer services end. For example, if an owner sells a property in February, that owner is responsible for sewer service charges for all Q1 (January, February, March). For customers that request an Estoppel, the quarterly sewer service charge may be prorated by the closing agent.

The District's Billing Quarters are:

- Q1 – January through March
- Q2 – April through June
- Q3 – July through September
- Q4 – October through December

This policy is independent of any proration agreement between buyers and sellers.

Protest:

1. The mechanism for an Owner to formally protest the outcome of this policy is LRD Rule 31-10.009(8) Administrative Credit and 31-1.008 Quasi-Judicial Hearing Procedures.

Relevant Policies & Rules: LRD Rules Chapter 31-10.007(1)(b)

Applicability: Customer Service

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

Authority: Chapter 31-10

Date Approved by Governing Board: 5/18/2023

Loxahatchee River District Policy

Department: Customer Service	Effective Date: May 17, 2018
Policy: End Sewer Service Charges	
Purpose: To clarify the process to end sewer service charges. Complements Initiate Sewer Service Charges Policy	
Policy #:	
<p>Because sewer service charges begin the quarter <i>following</i> Certificate of Occupancy or other condition specified in the Initiate Sewer Services Policy, the customer is responsible for sewer service charges <i>including</i> the quarter sewer services end. For example, if an owner sells a property in February, that owner is responsible for sewer service charges for all Q1. For customers that request an Estoppel, the quarterly sewer service charge may be prorated by the closing agent.</p> <p>The District's Billing Quarters are:</p> <ul style="list-style-type: none"> Q1 – January through March Q2 – April through June Q3 – July through September Q4 – October through December <p>This policy is independent of any proration agreement between buyers and sellers.</p>	
Authority: Chapter 31-10.007(1b)	
Authorized: <input type="checkbox"/> Governing Board	Date: May 17, 2018
Approved: <input type="checkbox"/> Executive Director	Date: May 17, 2018
Revised:	



LOXAHATCHEE RIVER DISTRICT

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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

To: Governing Board
From: Kara Fraraccio, Director of Finance and Administration
Date: May 12, 2023
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. 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	Recorded	Value	Value	Value
2780	ME0424	Flow Meter	Operational	09/30/10	\$ 6,118	\$ -	\$ 10
2728	N/A	Color Copier/Scanner	Operational	09/30/12	4,481	-	500
2558						-	
2603	ME0408	Multifunction Calibrator	Operational	09/30/12	2,686		20
2604							
2899	N/A	Gas Calibrator	Operational	09/30/17	2,636	-	10
2900							
Total Assets to be Disposed					\$ 15,921	\$ -	\$ 540

The items listed in the schedule 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.

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 with asset tag numbers 2728, 2558, 2603, 2604, 2899, 2900, and 2780 in accordance with the District's Disposal of Surplus Tangible Personal Property Policy."

Dr. Matt H. Rostock
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER



LOXAHATCHEE RIVER DISTRICT

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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
DATE: May 11, 2023
SUBJECT: Loxahatchee River Subaqueous Force Main Replacement/R2003
Professional Engineering Services – Design and Construction

In June 2022 the Board approved a work authorization with Mock, Roos and Associates to provide engineering design and construction services for a directional drill installation under the Loxahatchee River west of the FEC railroad bridge.

Since that time Mock Roos has completed design but experienced delays associated with pipeline alignment and easements and most recently revised permitting requirements through the Army Corp and FDEP. Additional permit requirements include a United States Army Corp of Engineers (USACE) 408 permit and Florida Department of Environmental Protection (FDEP) Environmental Resource Permit. Mock Roos has requested authorization of additional fees in the amount of \$18,850 and advised that permits and subsequent bid documents will now be available in November 2023. The revised work authorization for additional permitting services and schedule are attached for reference.

Staff recommend the following motion:

“THAT THE DISTRICT GOVERNING BOARD authorize the Executive Director to reauthorize the contract to Mock, Roos and Associates for Professional Engineering Services for the Loxahatchee River Subaqueous Force Main Replacement to include additional permitting services in the amount of \$18,850.00 in accordance with their proposal dated May 9, 2023.”

Dr. Matt H. Rostock
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

**Proposal to Provide Professional Engineering Services for
Loxahatchee River Environmental Control District
Redundant Subaqueous Forcemain Replacement
Additional Permitting Services (PA#C0089.50)**

A. Project Description:

The Loxahatchee River Environmental Control District (District) approved Mock•Roos to perform the design, permitting and provide engineering during construction services for the District's Redundant Subaqueous Forcemain Replacement project. During the design and permitting of the project, the USACE unexpectedly escalated their 404 Permit Authorization to a 408 Permit, and the FDEP reversed their prior determination and notified the District that a FDEP Environmental Resource Permit would now be required for the project. In addition, additional pipeline alignment modifications and easement negotiations between the District and the Town of Jupiter resulted from permit review comments from the Town of Jupiter Engineering Department

B. Scope of Services:

Mock•Roos will provide additional services related to:

TASK 3 – PERMITTING SERVICES.

1. Provide additional coordination and develop additional maps/anticipated drill pressure calculations for the USACE 408 Permit.
2. Provide coordination and prepare entire permit application and supporting documents for the FDEP Environmental Resource Permit. Respond to RAIs. Includes preparing requested exhibits and sketch and legal description of the sovereignty, submerged land easement area, in accordance with SLER 0960. Provide notifications (mailers) to adjacent property owners.
3. Assist with the coordination of a Utility Easement Agreement between the Town of Jupiter and the District. Prepare sketch and legal description of final easement.

C. Fee and Rates:

The total fee to provide the additional Scope of Services is anticipated to be \$18,950. Mock•Roos will complete these services on an hourly basis at Mock•Roos' hourly rates, plus reimbursable expenses.

D. Acceptance and Authorization to Proceed:

This proposal is acceptable and Mock•Roos has authorization to proceed with the Scope of Services upon Mock•Roos receiving a Purchase Order for these services.

MOCK•ROOS

Signed:  _____

Name: Garry G. Gruber, P.E.

Title: Senior Vice President

Date: May 9, 2023

Loxahatchee River Subaqueous Crossing Replacement PROJECT DESIGN SCHEDULE



	Task	Duration	Start Date	End Date	Q2 2022			Q3 2022			Q4 2022			Q1 2023			Q2 2023			Q3 2023			Q4 2023		
					Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	NTP	0	06/17/22	06/17/22																					
2	Survey Basemap	31d	06/17/22	07/17/22																					
3	60% Design Submittal	91d	07/17/22	10/15/22																					
4	Permit Submittals	31d	10/15/22	11/14/22																					
5	95% Design Submittal	76d	10/15/22	12/29/22																					
6	100% Design Submittal	31d	12/29/22	01/28/23																					
7	Additional Permitting	286d	01/28/23	11/09/23																					
8	Bid Ready Submittal	7d	11/09/23	11/15/23																					

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LOXAHATCHEE RIVER DISTRICT

2500 JUPITER PARK DRIVE, JUPITER, FLORIDA 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: D. ALBREY ARRINGTON, Ph.D., Executive Director
FROM: JASON A. PUGSLEY, P.E., Operations – Plant Manager
DATE: MAY 12, 2023
SUBJECT: HEADWORKS ODOR CONTROL SYSTEM REPLACEMENT

The District currently utilizes a biological odor control system, under a monthly lease agreement with Evoqua Water Technologies (Evoqua), to capture and treat hydrogen sulfide laden, as well as other malodorous compounds, vapors from the trough headspace and screenings/classifier room at the headworks structure of the District's wastewater treatment plant (WWTP). Biological odor control systems create the ideal conditions for the degradation and conversion of hydrogen sulfide via microbial oxidation using an engineered media to promote microbial growth and proliferation. The use of biofilters is ideal for applications, like headworks structures, where there is a consistent concentration of hydrogen sulfide in the vapor stream to be treated because it provides a constant "food" source to the microbial population. Biofilters have a distinct advantage over chemical scrubber systems because they don't have the recurring cost for the chemicals consumed to neutralize hydrogen sulfide concentrations.

The existing headworks biological odor control system is a two-stage system which has been in service since 2011. As part of a recent Odor Control System Improvements Study completed at the WWTP site by Carollo Engineer's, Inc., it was determined that the existing system is undersized for the current conditions at the headworks and it was recommended that the system be replaced with a larger system.

Staff has reviewed available options to upgrade or replace the existing odor control system to ensure that odors from the headworks are reliably and consistently captured and treated with the intent to limit odor impacts to onsite personnel and neighboring residents. Based on this review, Staff recommends the replacement of the existing unit with a three-stage biotrickling filter odor control system with a design capture flow rate of 5,000 standard cubic feet per minute (scfm). This flow rate is 2.5 times greater than the existing system. Further, the proposed system will be designed to treat average and peak hydrogen sulfide concentrations in excess of the design conditions of the existing system.

Staff recommends that the District proceed with the supply and installation of a new biological odor control system via the existing piggy-back contract with Evoqua under a monthly lease arrangement. Evoqua has indicated that the estimated lead time for the fabrication and installation of the new odor control system is 22 - 24 weeks from proposal approval. Based on this timeline the District will not incur any costs until early Fiscal Year (FY) 2024. As such, there will be no impact to the District's current FY 2023 budget.

Staff recommends the following motion:

"THAT THE DISTRICT GOVERNING BOARD authorize the Executive Director to execute the agreement submitted by Evoqua Water Technologies, Inc. for the supply and installation of a replacement headworks biotrickling filter odor control system, in accordance with a "piggy-back" of the Lee County contract."

Dr. Matt H. Rostock
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER



April 28, 2023

Mr. Jason Pugsley
Loxahatchee River Environmental District
2500 Jupiter Park Drive
Jupiter, FL 33458
Phone: (561) 401-4020
Email: Jason.pugsley@lrecd.org

**RE: BIOTRICKLING FILTER ODOR CONTROL SYSTEM
LOXAHATCHEE RIVER ENVIRONMENTAL DISTRICT, FL – WWTP HEADWORKS
Evoqua Quote No. 2023-600491**

Dear Mr. Pugsley,

Thank you for your interest in Evoqua Water Technologies LLC. Evoqua would like to submit the following proposal to install a Dual Stage Biotrickling Filter to provide point source odor control for the WWTP Headworks.

Evoqua Water Technologies LLC is established as an industry leader for the supply of odor and corrosion control products and services. The Evoqua Municipal Services Division employs over 175 engineers, chemists, technicians, transportation personnel and managerial/support staff to meet the odor and corrosion control needs of our customers nationwide.

Evoqua is committed to providing the highest standard of odor control and technical services in the industry. If the above proposal does not meet your application requirements, I would appreciate the opportunity to discuss alternatives with you.

If you have any questions, please do not hesitate to contact me at (951) 326-7415.

Sincerely,

Eric Hansen

Eric Hansen
Technical Sales Representative

Evoqua Water Technologies LLC

2650 Tallevast Road, Sarasota, FL 34243 USA

Tel: +1 (800) 345-3982

Fax: +1 (941) 359-7985

www.evoqua.com

BIOTRICKLING FILTER ODOR CONTROL SYSTEM

**LOXAHATCHEE WWTP HEADWORKS
LOXAHATCHEE RIVER ENVIRONMENTAL
DISTRICT, FL**

Quotation # 2023-600491

April 28, 2023

Sales Representative

Eric Hansen
Evoqua Water Technologies LLC
Mobile: (951) 326-7415
Email: eric.c.hansen@evoqua.com

2650 Tallevast Road, Sarasota, FL 34243 USA

Tel: +1 (800) 345-3982

Fax: +1 (941) 359-7985

www.evoqua.com



BACKGROUND

Thank you for your interest in Evoqua Water Technologies LLC. Evoqua is pleased to present you with the following proposal to supply a BTF-1036 Dual Stage Biotrickling Filter (BTF) to provide point source odor control for the Loxahatchee WWTP Headworks under a build, own, operate (B.O.O.) agreement.

Evoqua's BTF biological odor control system uses an inert polyurethane foam media on which sulfur-oxidizing bacteria / biomass is grown. Once fully acclimated, the bacteria can reduce the H₂S concentration by greater than 99%.

The BTF system consists of a round FRP tower. The system includes an exhaust fan, recirculation pump, control panel, nutrient storage tank, and nutrient pump. The control panel is weather tight (NEMA 4X). Odorous air passes vertically upwards through the tower and the media bed(s), while irrigating water passes vertically downward through the media. Clean air exits out the top of the tower.

To maintain a healthy biomass, the media is irrigated with water mixed with nutrient. The irrigation is supplied by continuous recirculation of the tower sump liquid. When in operation, the recirculation pump continuously circulates a small amount of sump liquid over the media bed(s). The sump liquid contains water, nutrient, bacteria, and the acidic waste of the biological oxidation process. A small amount of clean water is added to the sump continuously, and an equal amount of waste liquid is sent to the drain. Nutrient is kept in the nutrient tank and is pumped into the irrigation stream during each irrigation cycle. The nutrient rate is pre-set and is adjustable manually. If plant effluent water is used the residual chlorine concentration must be less than 5 ppm to protect the bacteria.

The BTFs Dual Stage design allows for irrigation of the lower two biological beds with recirculated sump liquids, while simultaneously irrigating the third biological bed with fresh makeup water. In doing so, two zones of biology will develop in the BTF. One zone encourages the growth of bacteria specialized for removal of H₂S odors in the lower two beds under low pH conditions, and the other zone encourages the growth of bacteria specialized for removal of reduced sulfur organic odors in the third bed under neutral pH conditions.

The proposed vapor phase odor control unit has been designed based on the following information:

DESIGN CRITERIA

Location:	Loxahatchee WWTP Headworks
Odor Control System Description:	BTF-1036
Vessel Diameter:	10 ft.
Number of Beds:	3 beds
Irrigation:	Dual Stage Irrigation
Process Air Flow Rate:	5,000 cfm
Average Inlet H ₂ S Concentration:	75 ppm _v
Peak Inlet H ₂ S Concentration:	150 ppm _v
Minimum Removal Efficiency:	99.0%

1. EQUIPMENT SCOPE

The following equipment and services are included in our scope of work. All equipment is designed to be installed in a non-hazardous area.

No.	Description	Quantity
1	Air Exhaust Fan w/ Motor	1
2	Fan Outlet / Vessel Inlet Transition	1
3	FRP Biotrickling Filter Tower, including: <ul style="list-style-type: none"> • PUF Foam Media for treatment of inorganic odors (H₂S) • Media Supports • Mist Eliminator • Integral Sump • Access Manways, Drain, Sight Glass • Inlet and Outlet Sample Ports • Flanged Inlet and Outlet • Integrated Humidification and Irrigation System • Integrated Nutrient Storage Tank • Nozzles and Internal Piping • All Biotrickling Filter Vessel Connecting Hardware (nuts, bolts, gaskets) • Dual stage irrigation design 	1
4	Electrical Control Panel, Skid Mounted, FRP Construction, NEMA 4X, Including: <ul style="list-style-type: none"> • One (1) On-Off Switch and status light for exhaust fan • One (1) VFD for adjustable speed control of exhaust fan • One (1) Hand/Off/Auto Nutrient pump switch. • Timer relay for water valves. 	1
5	Continuous Duty Recirculation Pump with NEMA Premium Efficiency Motor	1
6	Skid Mounted, enclosed Water Control Cabinet including; Nutrient Injection Point, Nutrient Feed Pump, Nutrient Flow Monitoring System, Rotameter, Control Valves, and Water Pressure Control Valve.	1
7	Evoqua Biofilter Nutrient	Included
8	Neoprene Pad to be installed underneath the vessel	Included
9	Anchor Bolts	Included

Evoqua shall provide and install the listed equipment. Evoqua Water Technologies retains ownership of all provided equipment. Evoqua will maintain spare parts for the equipment for emergency replacement.

2. SITE, UTILITIES AND CUSTOMER REQUIREMENTS

The Loxahatchee River Environmental District shall be responsible for having certain facets of site preparation completed prior to Evoqua's mechanical installation of the Biotrickling Filter. This includes, but is not limited to dewatering, concrete work, trenching, containment piping, excavation, backfill, piping and electrical. Additionally, the customer shall be required to supply the following for each odor control system:

- Power – 480 VAC, 3 PH, 20 A within 3 feet of vessel
- Water (Potable or Reuse) – 20 gpm at 30 psi, 1" Sch. 80 PVC
- Ductwork – Within 10 feet of air exhaust fan
- Concrete Foundation – 11'-6" x 27'-0"
- Crane / Forklift Access for offloading of equipment
- Drain – 2" Sch. 80 PVC minimum

3. SCHEDULE

Evoqua can begin the program within 22 – 24 weeks of authorization to proceed after Evoqua contract approval and depending on scheduling.

4. ROUTINE SERVICE AND MAINTENANCE

An Evoqua service technician will perform routine maintenance and sampling for the BTF at a *minimum of twelve (12) times per year*. These visits will be conducted at a frequency *not more than 1 month apart* and shall consist of checking operating parameters and performing routine maintenance to ensure the systems are operating within their design conditions. Any necessary process adjustments will be made and will be followed up as needed with no additional charge for visits. A written report will be provided within a week of site visit. Routine maintenance services will be scheduled in advance and include, but not be limited to the following:

- Test H₂S levels at the Inlet and Outlet of the Biotrickling Filter.
- Check the biotrickling filter drain pH and nitrate levels.
- Measure and record inlet air flow rates.
- Inspect the condition and spray pattern for spray nozzles.
- Make any necessary process adjustments, ensuring the system meets design conditions.
- Include this data in a monthly report.

Additionally, Evoqua Water Technologies will:

- Supply nutrient for the Biotrickling Filter and will maintain nutrient tank levels.
- Troubleshoot odor problems (i.e., complaints) within 24 hours and correct any malfunctions in the treatment system.

5. PRICING

The Biotrickling Filter can be provided at a total monthly price of **\$ 6,651.68**. Pricing is based on our standard equipment design offering. Pricing is based on the Lee County Odor Control contract, which the Loxahatchee River Environmental District currently piggybacks:

System Type	Design Air Flow (cfm) ¹	Design Avg. H ₂ S (ppm) ¹	Contract Line Item	Price per month ²	Mobilization Fee
BTF-1036 (Dual Stage)	5,000	75	B11 (Lee County)	\$ 6,651.68	\$ 19,955.04



Notes:

1. Design air flow rate was specified by the Loxahatchee River Environmental District.
2. A de-mobilization fee of 2 times the monthly rental fee shall apply for all units removed prior to 36 months.

The Scope of Services are further detailed in Attachment A, and schematics for the BTF-1036 have been included for your review in the attached documents.

Terms of payment are NET 30 days from date of invoice. These prices do not include any applicable taxes.

The Terms and Conditions of the Lee County Contract are considered part of this proposal and shall prevail.

Evoqua is committed to providing the highest standard of odor control and technical services in the industry. If the above proposal does not meet your application requirements, I would appreciate the opportunity to discuss alternatives with you.

If you have any questions regarding this proposal, please do not hesitate to contact me at (951) 326-7415.

Sincerely,

Eric Hansen

Eric Hansen
Technical Sales Representative

Evoqua Water Technologies LLC

**RE: BIOTRICKLING FILTER ODOR CONTROL SYSTEM
LOXAHATCHEE RIVER ENVIRONMENTAL DISTRICT, FL – WWTP HEADWORKS
Evoqua Quote No. 2023-600491**

Evoqua will process your order when we receive acceptance of this proposal by signing below and returning to municipalservices@evoqua.com or via fax to: (941) 359-7985.

Company Name: _____

This ____ day of _____ Month _____ Year

By: _____

Title: _____

P.O.Number _____

ATTACHMENT A

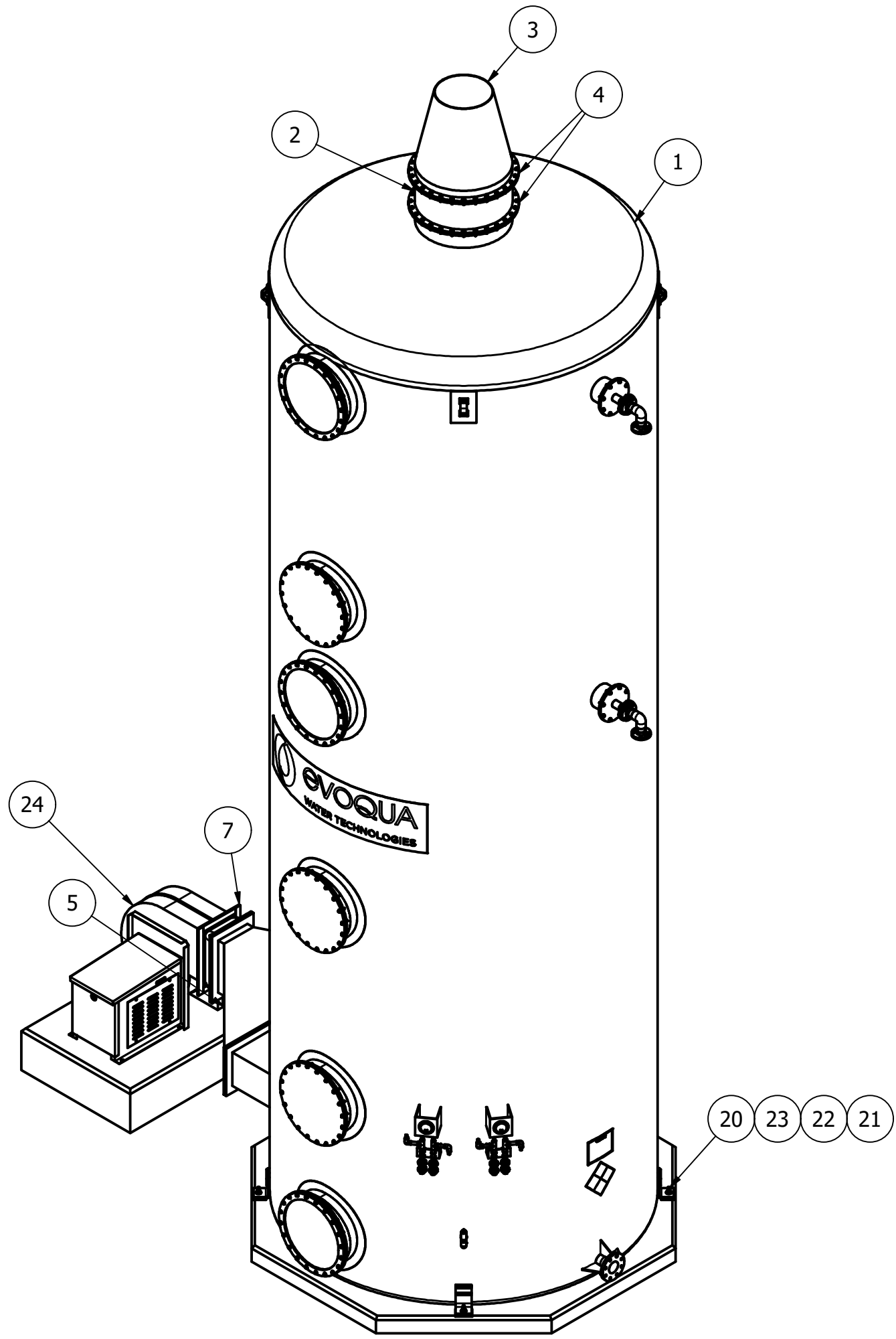
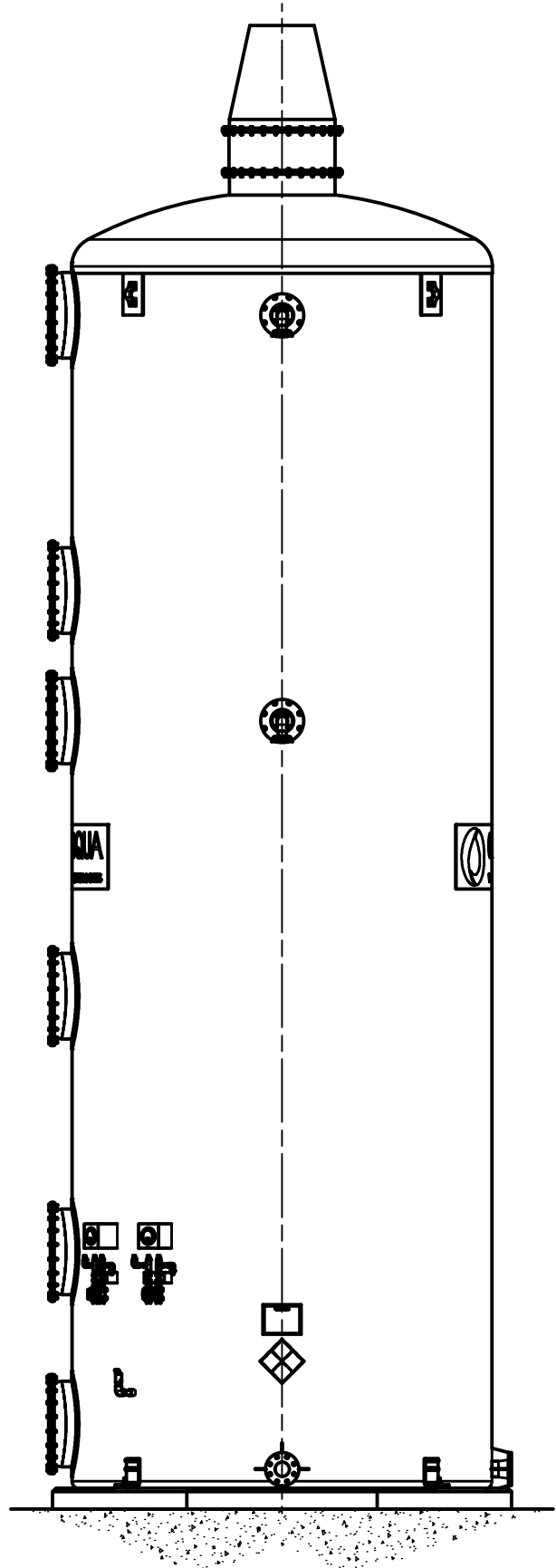
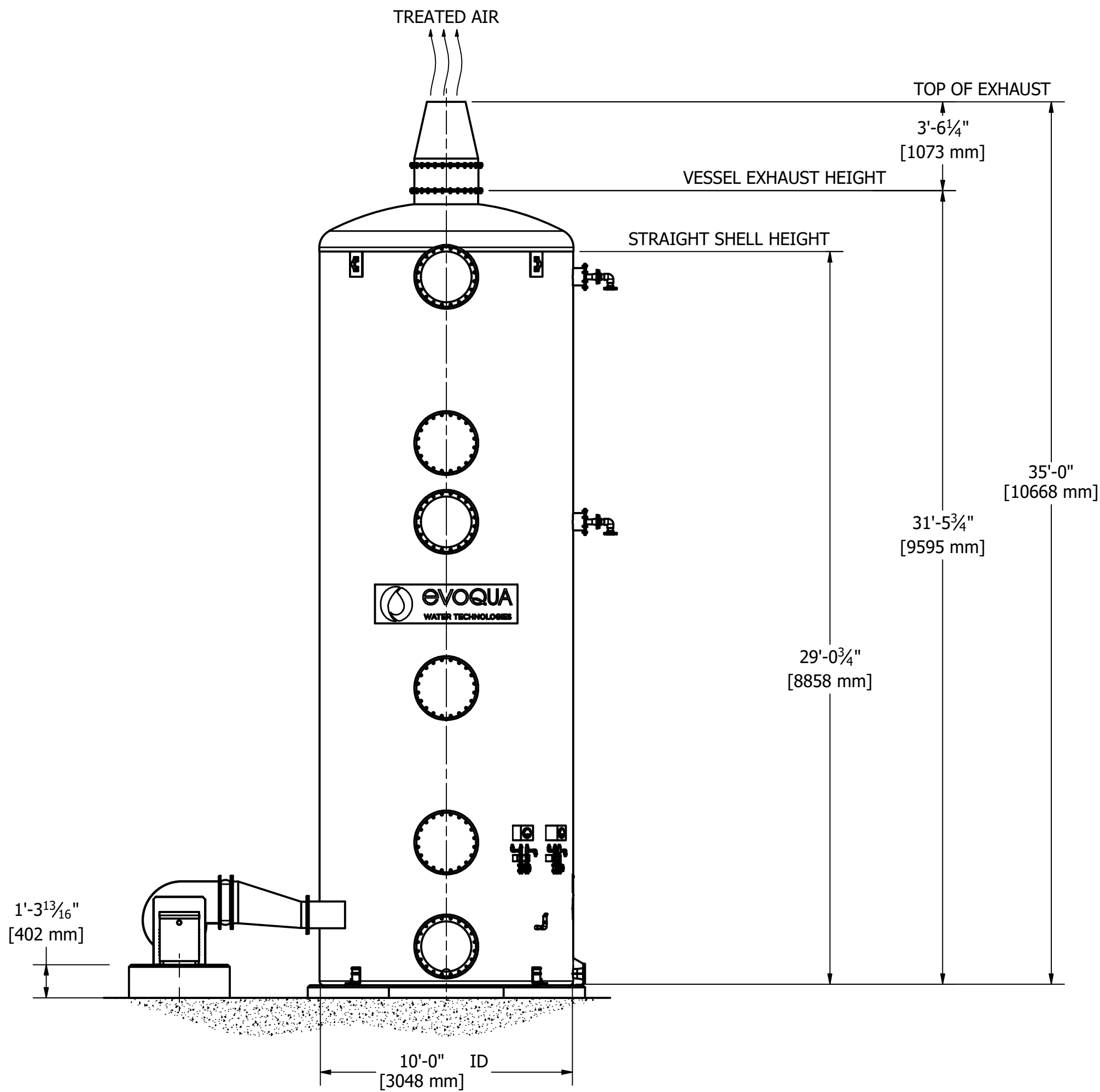
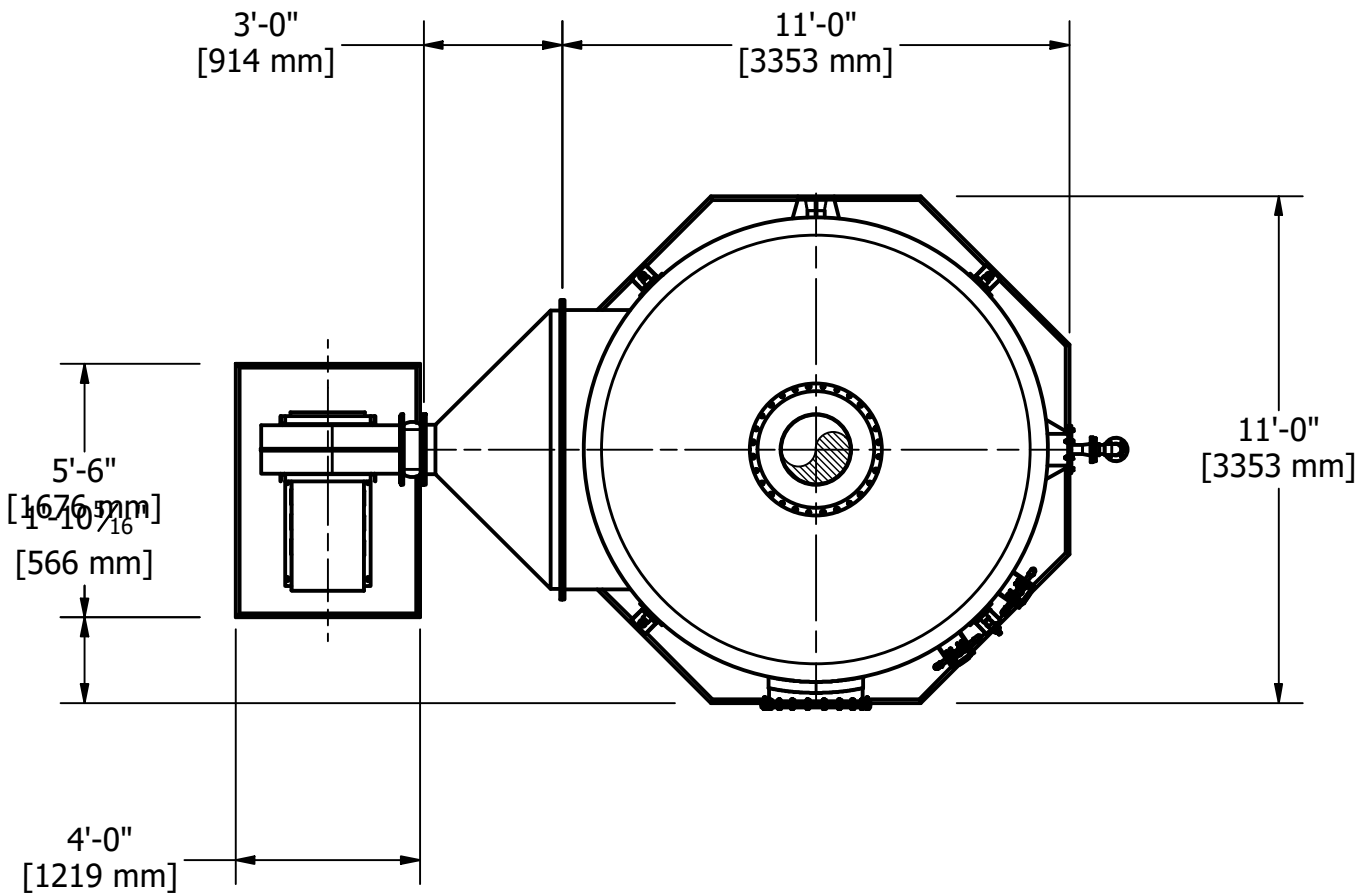
SERVICES TO INCLUDE:

No.	Description	
1.	Equipment installation	Included in contract
2.	Start-up and Operational Training	Included in contract
3.	Monthly Equipment Maintenance	Included in contract

Responsibility of:

	<u>EVOQUA</u>	<u>Customer</u>
1. Installation		
a. Foundation pad		X
b. Secondary containment (if required)	NA	
c. Equipment transport/ delivery	X	
d. Unloading and positioning	X	
e. Security Fencing (if needed)		X
f. Site Permitting (if required)		X
g. Drain		X
2. Electrical		
a. 120 volt service termination		NA
b. 480 volt service termination		X
c. Conduit & wiring to/from module and remote monitors or alarms		NA
d. All connections inside EVOQUA module	X	
3. Piping and Mechanical		
a. Inlet/Outlet fittings	X	
b. Water to the EVOQUA module	X	
c. Piping/fittings within EVOQUA module	X	
d. Potable or reuse water feed		X
e. Duct work to EVOQUA module (within 10' of unit)		X
f. Interconnecting ductwork between EVOQUA modules	X	
g. Heat tracing and insulation of supply water (off skid)		NA
4. User Training		
a. Orientation	X	
b. Start-up assistance	X	
c. Operator training	X	


COMPANY CONFIDENTIAL INFORMATION: THIS DOCUMENT AND ALL INFORMATION CONTAINED HEREIN, INCLUDING THE DESIGN CONCEPTS, ARE THE PROPERTY OF EVOQUA AND/OR ITS AFFILIATES AND ARE SUBMITTED IN CONFIDENCE. THEY MAY BE USED ONLY FOR THE EXPRESS PURPOSES FOR WHICH THEY ARE PROVIDED AND NOT BE REPRODUCED, REPAIRED, LOANED OR USED IN ANY OTHER MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF EVOQUA. ANY REUSE OR MODIFICATION OF THIS DOCUMENT WITHOUT THE EXPRESS WRITTEN CONSENT OF EVOQUA SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO EVOQUA. EVOQUA AND ITS AFFILIATES SHALL NOT BE RESPONSIBLE FOR ANY ERRORS, OMISSIONS, OR INACCURACIES IN THIS DOCUMENT. ALL RIGHTS ARE RESERVED AND ANALYSES MUST BE RETURNED TO EVOQUA OR DESTROYED, AS INSTRUCTED BY EVOQUA. ACCEPTANCE OF THE DELIVERY OF THIS DOCUMENT CONSTITUTES AGREEMENT TO THESE TERMS.



- NOTE:
1. RECIRCULATION PIPING NOT SHOWN (TO BE PROVIDED BY OTHERS).
 2. ANCHOR SIZE AND QTY. ARE REPRESENTATIONAL.

BILL OF MATERIALS				
ITEM	QTY	TITLE	MATERIAL	WEIGHT EACH
1	1	VESSEL, BIOTRICKLING FILTER		6729.7
2	1	MIST ELIMINATOR ASSEMBLY		193.8
3	1	EXHAUST STACK	FRP	34.6
4	2	GASKET, 30" DUCT	EPDM	.8
5	1	INLET TRANSITION	FRP	88.7
6	1	GASKET, INLET	EPDM	2.1
7	1	FLEX CONNECTOR, 14.00 X 19.34	MISC	10.1
9		BIOLOGICAL MEDIA	PUF	
10	2	GUAGE, PRESSURE 6" WC MAGNEHELIC	MISC	1.1
11	2	PIPE ASSY, DIFF PRESSURE GUAGE DRAIN, LOW		1.2
12	2	PIPE ASSY, DIFF PRESSURE GUAGE DRAIN, LOW		1.2
15	8	BOLT-U, .313 UNC X 2.41 X 1.50 THRD	316SS	.1
16	16	WASHER-PLAIN, .313 DIA	316SS	.0
17	16	NUT-HEX, .313 UNC	316SS	.0
18	16	WASHER-LOCK, .313 DIA	316SS	.0
19	56	.375 DIA X 2.00 HARDWARE ASSM		.1
20		ROD-THRD, 0.625UNC X 8.00", 316SS	316SS	.7
21		WASHER-PLAIN, .625 DIA	316SS	.1
22		WASHER-LOCK, .625 DIA	316SS	.0
23		NUT-HEX, .625 UNC	316SS	.1
24	1	FAN, 18" DIA BACKWARD CURVED CENTRIFUGAL	MISC	293.0

PRELIMINARY
NOT TO BE USED FOR
CONSTRUCTION
PURPOSES

DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES UNLESS OTHERWISE SPECIFIED X" ± .50" X.XX ± .06 X.XXX ± .005 X/X ± 1/16 MACHINED SURFACES 250 ✓	DESIGNER ZLOZA	DATE 3/2/2021	TITLE BIOTRICKLING FILTER ODOR CONTROL SYSTEM GENERAL ARRANGEMENT MODEL BTf-1036			
	CHECKER	DATE				
	ENGINEER	DATE	CLIENT			
	MANAGER	DATE				
REF			 EVOQUA EVOQUA WATER TECHNOLOGIES SAN DIEGO, CA 858-487-2200			
SIZE D	SCALE 1:50	PROJECT M21-XXX	DRAWING G1	CODE	SHEET 1 OF 1	REV 0



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
	605+607 Military Trl (LP)	2	Notified Owners – June 2020 Notice of Intent – Jan 2021	2022	
	18041 69 th Terrace	1	LRD procedures shared for connection to sewer services Statutory Way Provision – Jan 2022 Notice of Intent April 2023 Under Construction	N/A	2022
	5331 Center Street	1	LRD procedures shared for connection to sewer services Notice of Intent – March 2022 In Permitting	N/A	2022
	Island Way Property	1	Notice of Intent – August 2022 Project in Design	N/A	2022

Rank *	Area Description	# Lots	Activity	Original Target Date	Revised Target Start Date
AA	Peninsular Road	4	Private Road Notice of Intent – February 2010 Partial construction complete - June 2013 Soliciting easements for remainder of project	2010	AEO
BB	Rivers Edge Road (Martin Co.)	35	Notified Owners – August 2010 Private Road-Easements Solicited –May 2014 Notice of Intent – February 2014 Project Delayed	2013	AEO
CC	171 st Street (Martin Co.)	7	Private Road - In House Design Owners notified October 2012 Easement rec'd from Church – April 2017 Grant received	2014	AEO
CC	Jamaica Dr	11	Private Road Owners notified Oct 2012 Statutory Way Provision (2) – June 2021 In Construction	2014	AEO
D	Loggerhead Park <i>(institutional)</i>	6 ECs	Need Easements from County-No database	2014	AEO
DD	Taylor Road	38	Notified Owners – September 2011 Private Roads	2015	AEO
FF	Rolling Hills	50	Notified Owners – Jan. 2013 - Private HOA Notice of Intent to Assess – October 2019 Award of Contract – December 2021 Notice To Connect – March 2023	2017	2021
FF	North A1A	3	Postponed-Town activities in area No database	2012	AEO
GG	815 S US 1 (Yum Yum Tree)	9 ecs	Notified Owner – November 2014	2016	AEO
GG	Rockinghorse <i>(north of Roebuck Road)</i>	11	Notified Owners – January 2013	2018	AEO
GG	Castle Rd SE	5	Notified Owners – Jan 2013-private road	2018	AEO
GG	Jupiter Rd SE	4	Notified Owners – Jan 2013-private road	2018	AEO
HH	Harbor Rd. S. LPSS	6	Notified Owners – January 2014-private road Statutory Way Provision – May 2023 (1 lot)	2017	AEO
HH	Indian Hills SE	12	Notified Owners – January 2016 Easement for Road & Utilities, No Dedication	2019	AEO
16	Limestone Creek Road West	49	Notified Owners – January 2013-private road	2018	TBD
19	US Coast Guard Station Offices <i>(institutional)</i> PX Commercial <i>(commercial)</i>	2 ECs 2 ECs	US Government - private roads-No database Contract for installation of sanitary sewers – September 2020 Project Under Construction	2019	2021
	109+111 Old Jupiter Beach Road	2	Notified Owners – September 2021 Follow Up Reminder – July 2022 Constr. Plans Complete – Pending Owners		
	182 nd Road North	12	Sewering Pricing Request by 50% of Owners Design/Cost Est. In Progress		

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

May 1, 2023

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, and/or monitoring 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.

The LRD adv Mackey Claim is now closed. The other CASE Has NO CHANGE IN STATUS SINCE LAST REPORT.

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 21, 2022, Attorney Reynolds indicated projected trial date is December 18, 2023, and provided
confidential information to claims adjuster.

November 1, 2022 Attorney Reynolds office setting Pre Trial MEDIATION in January 2023.

January 13, 2023 Dr. Michael Zeide performs CME on Plaintiff

March 9, 2023 Mediation scheduled for May 23, 2023

Pre-Suit Notice of Claim under FS 768.28 (6)(a)

Dated August 3, 2020, from Attorney for Plaintiff

Donovan Mackey and Dee Mackey, Plaintiff
Vs. LOXAHATCHEE RIVER DISTRICT,
Defendant.

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

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

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

As of July 11, 2022, No activity since Adjuster assigned the claim

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

Statute of Limitations is running on the claim.

Claim Closed. \$0 Paid in indemnity, \$0 Paid in Expense.

This will be the FINAL REPORT on this Claim

LIEN FORECLOSURES

NONE

MORTGAGE OR LIEN FORECLOSURES / LRD COUNTERCLAIMS/CROSSCLAIMS

NONE



***Loxahatchee River Environmental Control District
Monthly Status Report
May 1, 2023***

Submitted To: Kris Dean, P.E., Deputy Executive Director

The following is a summary of work performed by Baxter and Woodman, Inc. (B&W), on District projects for the monthly period ending April 30, 2023.

Lift Station Control Panels & RTU Upgrades

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

- Preliminary Design Report and site plans submitted to LRECD April 20, 2023.
- Review meeting scheduled for May 4, 2023.

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

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

- Final Walk Through was performed on February 7, 2023.
- FDEP performed an inspection on February 15 at IQ-511. Our Inspector was onsite to meet the inspectors and no issues were reported.
- Contractor has completed all punch list items except repair of the fiber line. District obtaining repair quotes for the fiber line. No pricing information has been provided to B&W or Contractor.
- Final As-Builts & O&M Submittal provided on April 26, 2023, submittal was reviewed and comments provided back to Contractor on April 28, 2023.
- Awaiting final permit closeout documents from the contractor.
- Awaiting final pay application submittal from the contractor.

Respectfully Submitted by:

BAXTER & WOODMAN, INC.

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

**Loxahatchee River Environmental Control District
CMA Project Status Update
May 8, 2023**

1. Science Center at Jupiter Inlet Lighthouse Outstanding Natural Area (CMA Project # 494.001)

Activities Performed:

- Conceptual Design Memorandum and building layout options were approved by the Board on 10/21/21.
- A coordination meeting was held 11/12/21.
- 90% design, specifications and cost estimate were submitted.
- LRD plan comments were addressed.
- Proposed roof alternative design was submitted to LRD for review (to address comments from SHPO).
- Bid documents were submitted to LRD.
- Comments were received from LRD and meetings/calls conducted to review.
- Final bid documents were submitted to LRD.
- Project advertised for bid (bids due January 10, 2023, anticipated award at January Board meeting).
- Recommendation of bid rejection was presented to the Board on January 19, 2023. Board voted to reject all bids.
- Conducted discussions with LRD staff on possible project adjustments to save costs.
- Project on hold pending cost review.

2. 2500 Jupiter Park Drive Conceptual Site Planning

Activities Performed:

- Conducted kickoff meeting.
- Environmental field work was performed, report submitted, comments received from LRD, revised report submitted.
- Staff and Board survey were performed.
- Existing site base plan was prepared.
- A review of adjacent stormwater permits was performed.
- Site concept plans were prepared.
- Site visits and meeting with LRD were conducted to review survey results and concept plans.
- Presented survey results and concept plans to the Board.
- Submitted data request to LRD for massing study and received results. Provided LRD with initial space calculations.
- Reviewed WWTF capacity expansion goals with LRD. Submitted memorandum on the WWTF future space to LRD.
- Submitted draft Site Security memorandum, received comments from LRD, and submitted final memorandum.
- Draft massing concepts were presented to LRD at the meeting.
- LRD comments were incorporated, and a revised massing study was submitted.
- LRD provided comments on the revised massing study.
- Revised massing study submitted.
- Draft site plans submitted and comment received. Comment responses issued.

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



- Site planning memorandum drafted. Holding document submittal for confirmation on some of the key site plan concepts.
3. Professional Cost Estimating Services
- Proposal was submitted for professional cost estimating services to review the current market prices of the Science Center at Jupiter Inlet Lighthouse Outstanding Natural Area.



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

MEMORANDUM

To: Kris Dean, PE, Deputy Director/Director of Engineering, Loxahatchee River Environmental Control District
From: Christine Miranda, PE, Holtz Consulting Engineers, Inc.
Date: May 11, 2023
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 May 11, 2023. **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.**

AWWA Benchmarking

- AWWA confirmed receipt of the 2023 Benchmarking survey data on April 18, 2023. This should complete all associated work with this project.

Electrical System Condition Assessment, Short Circuit, Device Coordination and Arc Flash Study

- HCE's electrical subconsultant, Hillers Electrical Engineering, is currently finalizing the one line diagram comments. Hillers is also currently working on the condition assessment analysis.

Schedule Update:

The draft technical memorandum for the condition assessment analysis will be submitted to the District for review by May 17, 2023.

Greenhouse Gas Strategies Evaluation

- The draft technical memorandum summarizing the results of the chemical feed analysis and flow equalization testing was submitted to the District for review and comment on April 20, 2023. The floating solar component of this evaluation is still underway.

Schedule Update:

All work is currently scheduled to be completed by June 9, 2023.

Lift Station No. 082 Improvements

- HCE is still working with the Town of Jupiter and plaza owners to obtain the utility easement and permit to relocate the existing Town of Jupiter water main that is in conflict with the new

generator. As soon as the easement has been executed and Town of Jupiter permit issued work can commence.

Schedule Update:

The Contractor is currently working on preparing the change order for the water main relocation, new tie-in location for the force main, and revisions to the generator drawings that include a retaining wall, concrete footer, and aluminum guardrail on the west and north side of the pad. This change order will include the time extension required to complete this work. The current contractual final completion date was April 13, 2023. This will be extended with the change order.

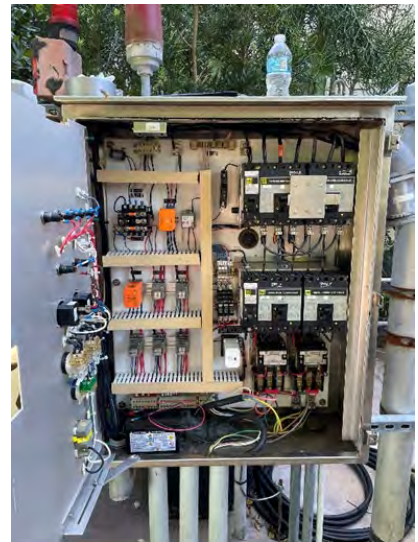
Country Club Drive Force Main Transmission System Preliminary Evaluation

- *The District is currently reviewing the different methodologies that can be utilized for flow projections and will be providing feedback to HCE for finalization of the technical memorandum.*

Schedule Update: *Per the work authorization agreement, upon receipt of final information from the District on the draft memorandum, the final memorandum will be prepared and submitted within two weeks.*

Lift Station Telemetry Improvements

- The Contractor is in the process of completing existing panel modifications for the first 45 lift stations. A change order for the remaining 62 existing panel modifications has been reviewed and is being processed by HCE and will be submitted to the District for consideration and approval. The Contractor has completed more than 20 Remote Telemetry Unit (RTU) control panels and is currently performing factory testing. All RTU panel installation details have been reviewed and returned and the Contractor is in the process of updating SCADA communication configurations and HMI screens to match District standards. Right-of-way permits for Palm Beach County Roadway and North Palm Beach County Improvement District have been submitted for the first set of 49 sites. The District is looking into any other potential right-of-way concerns for the next set of sites. Additional permits will be submitted as necessary at that time. The photo above depicts recent modifications to LS-168 including new HOA switch, breaker, buss bar and new panel intrusion alarm.



Schedule Update: Change order #4 for a 44 calendar day time extension due to additional work to modify the existing controls panels has been executed by the District. The new contract completion date is July 12, 2024.

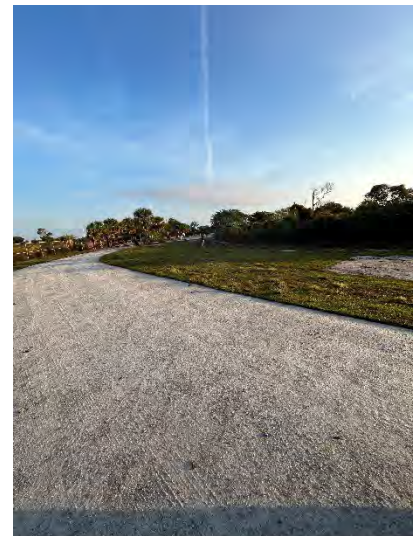
Rolling Hills Gravity Sewer System, Lift Station, & Force Main

- All final punchlist items have been completed. HCE is proceeding with processing the final change order, final pay requests, and closeout of the project.

***Schedule Update:** The current final completion date for the project was February 8, 2023. HCE is currently working on the final change order which will include the contract time extension for the new pump delivery and installation, start-up, and close-out of the project.*

Jupiter Inlet Lighthouse Septic to Sewer Conversion

- Throughout the month of April, HCE continued their onsite observation of site conditions and communication between District staff and the Contractor on all outstanding punchlist items. Meetings were held on April 25, 2023 and May 4, 2023 to review the punchlist and change order items. Progress has been made with installation of additional sod and some roadway site restoration. HCE, LRD and BLM staff have all been adamantly pursuing the Contractor in the completion of this project and all remaining punch list items, and the criticality to complete this project as they have now exceeded the contractual deadline of. Some of the major items remaining are storm water drainage/earthwork and rectification of FPL conduit to allow for underground utility power to be installed. HCE will continue efforts in maintaining a high-level of communication and pressure on the Contractor until completion of this project. Photo to right depicts recently installed sod.



***Schedule Update:** The current contract completion date was April 13, 2023. Punchlist items still remain to be completed. HCE and the District are actively attempting to get the Contractor to complete all remaining work as quickly as possible.*

Deep Injection Well Replacement Cost Study

- HCE is currently working on completing the analysis of the additional alternative and completing the technical memorandum.

***Schedule Update:** The final technical memorandum is anticipated to be submitted to the District by May 19, 2023.*

Injection Well Pump Manual Transfer Switch Addition

- The Contractor is currently on site working towards project completion. The Contractor is in the process of putting a schedule together and a change order request for a time extension due to material delays and the time needed for the multiple shutdowns and wire testing required for each station.



Schedule Update: *The current final completion date was April 30, 2023. As noted, the Contractor will be submitting a time extension change order request.*

Lift Station No. 050 Emergency Generator

- HCE has worked with the surveyor to determine the property ownership adjacent to the lift station. The revised layout and plans were transmitted to the District on May 11, 2023.

Schedule Update: *The 90% plans and specifications will be submitted to the District by May 18, 2023.*

Bulk Sodium Hypochlorite Conversion Study

- *Work is underway for the project. The first deliverable to be submitted to the District will be the technical memorandum.*

Schedule Update: *The draft technical memorandum will be submitted to the District by June 8, 2023 and final technical memorandum will be submitted by July 6, 2023.*

Emergency Response ESRI Collection Tool & Synovia Vehicle Tracking Assistance

- *No new activities have occurred for this work.*

May 9, 2023

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. C0089.40
Subject: Loxahatchee River Subaqueous Forcemain Replacement
PO No. 22-0911

Dear Kris:

Below is our Monthly Update for April 2023.

- Ongoing Permit Coordination.
 - DEP – Individual Environmental Resource Permit (ERP) - Permit application was submitted week of April 3, 2023. RAI #1 received from DEP on May 4, 2023.
 - ACOE Permit – Submitted. Notified by ACOE that a ACOE 408 Permit is required. Additional documents provided.
 - Town of Jupiter – Permit Approved Pending Preparation and Submission of a Draft Utility Easement Agreement between Town of Jupiter and the District.

Upcoming Activities:

- Submit 100% Bid Document pending final permitting agency comments.
- Advertise project for Bids.

If you have any questions, please contact me at (561) 683-3113, extension 293.

Sincerely,
MOCK, ROOS & ASSOCIATES, INC.



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

GGG:tsm
Copies: John Cairnes
Spencer Schroeder

Mock, Roos & Associates, Inc.

5720 Corporate Way, West Palm Beach, Florida 33407-2066, 561-683-3113, www.MockRoos.com



Busch Wildlife Sanctuary

The 2nd Quarter Report will be presented
at the July 2023 Board Meeting.





Director's Report

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





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

To: Governing Board
From: Kara Fraraccio, Director of Finance and Administration
Date: May 12, 2023
Subject: Monthly Financial Report

Cash and Investments

Balance as of April 30, 2023
Certificates of Deposit:

Institution	Original Term	Maturity	Rate	Book Value	Monthly Change in Investment	Market Value
TD Bank	9 Months	05/05/23	3.22%	\$ 2,500,000	\$ 6,755	2,559,056
TD Bank	9 Months	05/08/23	3.35%	1,274,425	3,585	1,305,639
Bank United	9 Months	05/16/23	2.13%	1,003,248	1,777	1,018,372
TD Bank	12 Months	08/10/23	3.36%	2,000,000	5,644	2,049,133
Bank United	12 Months	08/16/23	2.42%	1,004,118	2,027	1,021,357
Bank United	12 Months	08/16/23	2.42%	1,004,118	2,027	1,021,357
US Century Bank	13 Months	09/22/23	2.71%	2,500,000	5,667	2,547,027
Bank United	12 Months	11/18/23	4.55%	1,060,577	4,028	1,082,284
Bank United	12 Months	11/22/23	4.59%	1,582,357	6,071	1,614,276
TD Bank	10 Months	12/01/23	5.00%	2,538,250	10,510	2,567,919
Subtotal				\$ 16,467,093	\$ 48,091	\$ 16,786,420
Investment Accounts:						
Synovus - Public Demand			2.75%		\$ 11,248	\$ 4,982,004
Bank United - Public Funds Reserve			4.17%		7,251	2,045,077
Florida Prime - SBA			5.06%		20,646	4,983,842
Subtotal					\$ 39,145	\$ 12,010,923
Checking Account:						
SunTrust-Hybrid Business Account			1.95%		\$ 25,469	\$ 8,674,724
Subtotal					\$ 25,469	\$ 8,674,724
Brokerage Accounts:						
Vanguard GNMA ADM			0.69%	\$ 103,135	\$ 637	\$ 91,895
Vanguard Short-Term Treasury			0.24%	1,852,868	4,339	1,800,831
U.S. Treasuries - Due 05/25/23			4.69%	1,231,427	4,815	1,256,325
U.S. Treasuries - Due 06/22/23			4.61%	146,718	487	148,940
U.S. Treasuries - Due 06/27/23			4.73%	498,410	1,605	501,078
U.S. Treasuries - Due 07/05/23			4.71%	3,011,802	10,444	3,024,915
U.S. Treasuries - Due 07/06/23			4.77%	670,155	2,044	673,823
Charles Schwab Bank Sweep						3,644
Subtotal				\$ 7,514,515	\$ 24,371	\$ 7,501,451
Total					\$ 137,076	\$ 44,973,518

Average weighted rate of return on investments is: 3.33%

As of 4/30/23:

3 month Short Term Bond: 5.10%

1 month Federal Fund Rate: 4.83%

Dr. Matt H. Rostock
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

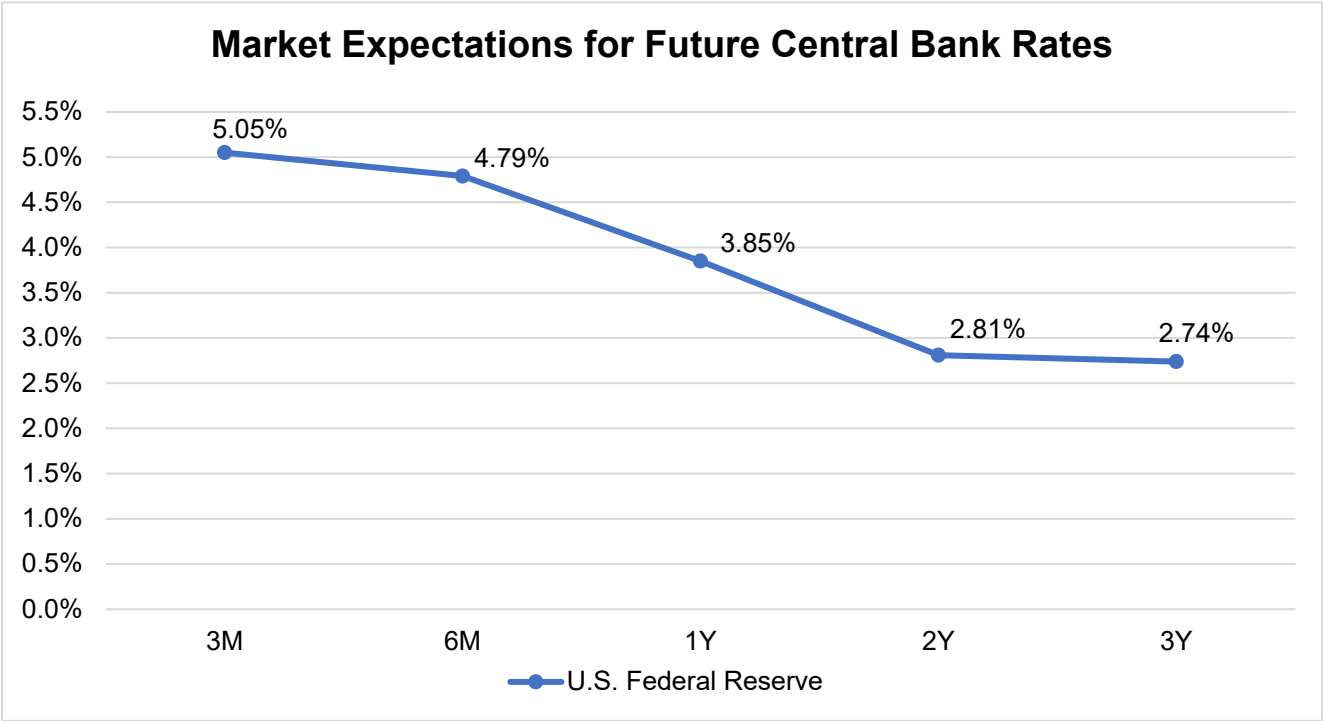
Stephen B. Rockoff
BOARD MEMBER

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The District’s average weighted rate of return on investment of 3.33% is lower than our benchmark because interest rates are increasing so rapidly. So far in 2023, the Fed has raised rates 0.25 percentage points three times, meaning interest rates have increased by 0.75% in 2023. Interest rates are currently over 5%. With interest rates rising, investing in moderate and long-term CDs produces lower returns than investing in short-term assets. Therefore, District staff are intentionally evaluating and revising our investments. The Board can rest assured that any future investments will fully comply with our Investment Policy.

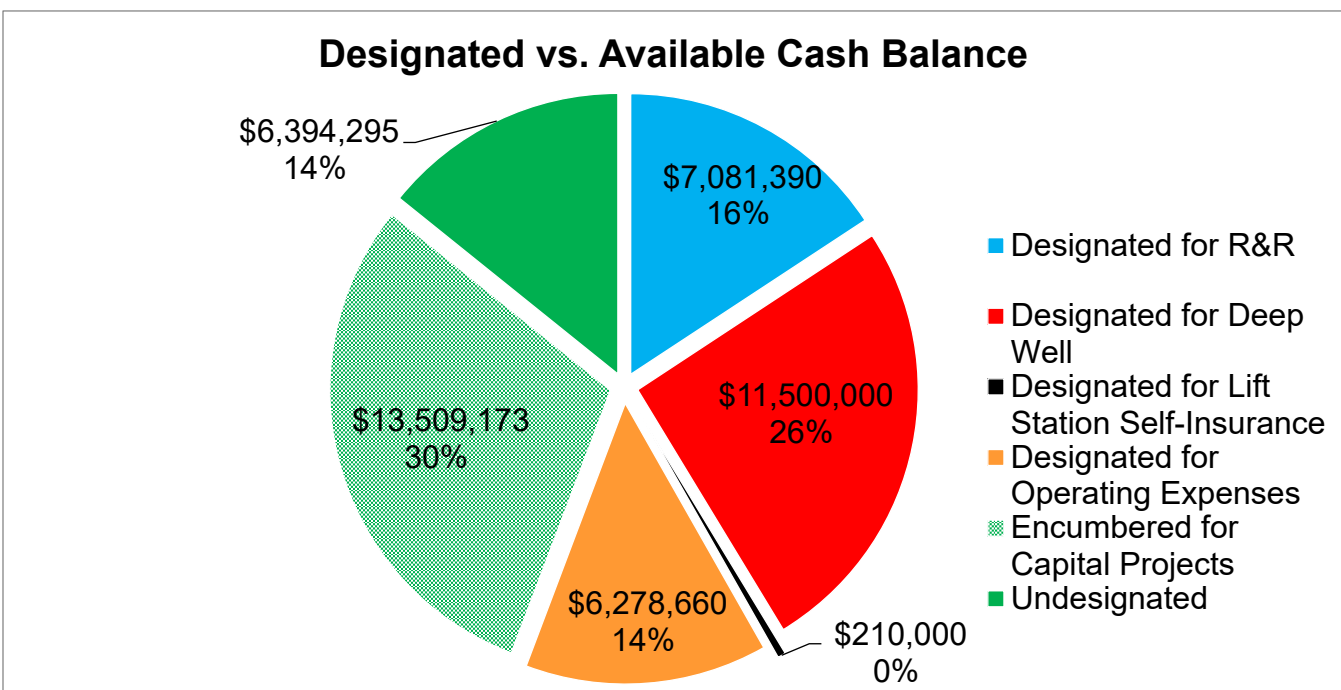
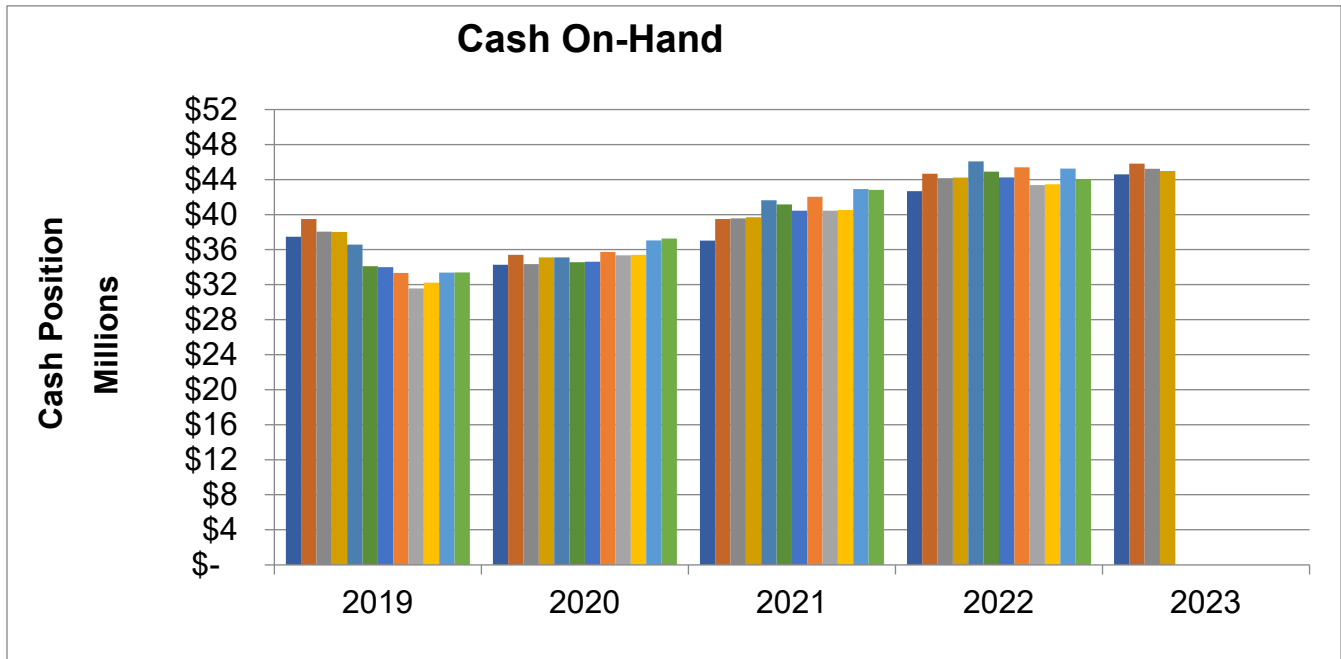
In the next month, staff plans to invest additional money into Florida PRIME (SBA fund) and will open a Preferred Deposit Pool account with Florida Fixed Income Trust (FL-FIT) another Local Government Investment Pool (LPIG). Florida PRIME rate has increased substantially during the past week. As of May 4, the fund is offering a 7-day yield of 5.22%. The average effective maturity of the portfolio is 23.4 days as the fund invests exclusively in short-term, high-quality fixed income securities and maintains a weighted average maturity of 60 days or less, with the maximum maturity of any investment limited to 397 days. This provides investors with sufficient liquidity for large withdrawals. The FL-FIT Preferred Deposit Pool provides local governments with a resource that maximizes yield while protecting principal through FDIC insured bank deposits and qualified public depository accounts. This pool reduces staff time of managing CD’s across multiple banks by having funds located in one account while maximizing yield. The current 7-day yield is 4.96%. This pool also provides same day liquidity.

At this time staff believes it is best to invest in short term maturities as short-term rates are substantially higher than long term rates (e.g. the May 10th, 3-Month treasury rate of 5.24% vs. the 2-Year rate of 3.9%). This inverted yield curve is shown in the chart below. We will continue to monitor the yield curve and evaluate our options during this abnormal market.



*Data as of April 30, 2023.

Cash position for April 2022 was \$44,230,248. Current Cash position is up by \$743,270.



Financial Information

- Legal Fees billed in April were \$14,510. The fiscal year-to-date total is \$48,215.
- Estoppel fees collected in April totaled \$7,380. The fiscal year-to-date total is \$41,760.
- There was no Septage billing for the month of April.
- Developer's Agreement – There were no new Developer Agreements.
- I.Q. Water Agreements – Abacoa Plaza is past due for March and April.

Summary of Budget vs. Actual

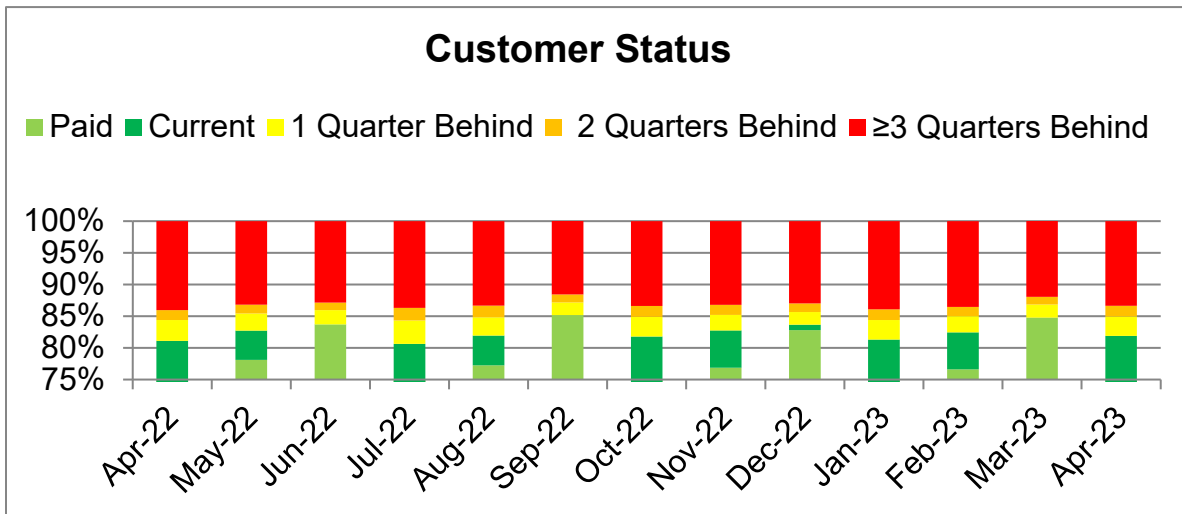
Budget Benchmark
58.00%

	Apr-23 Actual	YTD Actual	FY 23 Budget	Favorable (Unfavorable)	Budget Expended	Apr-22 YTD
Revenues						
Operating Revenues						
Regional Sewer Service	\$ 1,537,842	\$ 10,328,550	\$17,501,000	\$ (7,172,450)	59.02%	\$9,931,092
Standby Sewer Service	9,002	62,732	108,000	(45,268)	58.09%	67,950
IQ Water Charges	201,218	1,367,628	2,352,000	(984,372)	58.15%	1,338,387
Admin. and Engineering Fees	6,207	20,084	63,000	(42,916)	31.88%	21,706
Other Revenue	57,677	279,426	516,265	(236,839)	54.12%	316,208
Subtotal Operating Revenues	1,811,946	12,058,420	20,540,265	(8,481,845)	58.71%	11,675,343
Capital Revenues						
Assessments	\$ 55,371	\$ 1,143,850	1,411,000	(267,150)	81.07%	1,174,777
Line Charges	35,622	125,351	465,000	(339,649)	26.96%	104,698
Plant Charges	84,841	282,385	686,000	(403,615)	41.16%	368,292
Capital Contributions		959,625	140,000	819,625	685.45%	637
Subtotal Capital Revenues	175,834	2,511,211	2,702,000	(190,789)	92.94%	1,648,404
Other Revenues						
Grants		5,126		5,126		351,500
Interest Income	162,784	1,332,475	560,700	771,775	237.64%	532,285
Subtotal Other Revenues	162,784	1,337,601	560,700	776,901	238.56%	883,785
Total Revenues	\$ 2,150,564	\$ 15,907,232	\$ 23,802,965	\$ (7,895,733)	66.83%	\$ 14,207,532
Expenses						
Salaries and Wages	\$ 530,644	\$ 3,785,590	\$7,381,800	\$ 3,596,210	51.28%	\$3,352,287
Payroll Taxes	38,694	270,910	530,500	259,590	51.07%	240,445
Retirement Contributions	77,166	538,138	1,107,000	568,862	48.61%	473,190
Employee Health Insurance	138,890	932,596	1,542,500	609,904	60.46%	823,776
Workers Compensation Insurance	24,597	54,492	77,800	23,308	70.04%	49,856
General Insurance	188,013	442,808	423,520	(19,288)	104.55%	380,921
Supplies and Expenses	80,836	677,090	1,105,382	428,292	61.25%	613,688
Utilities	191,435	956,064	1,555,116	599,052	61.48%	895,407
Chemicals	58,951	328,774	634,000	305,226	51.86%	210,455
Repairs and Maintenance	212,640	1,016,534	1,940,780	924,246	52.38%	1,100,374
Outside Services	206,048	1,216,249	2,312,578	1,096,329	52.59%	1,111,209
Contingency			225,000	225,000	0.00%	
Subtotal Operating Expenses	1,747,914	10,219,245	18,835,976	8,616,731	54.25%	9,251,608
Capital						
Capital Improvements	\$ 584,643	\$ 3,514,606	12,741,414	9,226,808	27.58%	1,559,829
Subtotal Capital	584,643	3,514,606	12,741,414	9,226,808	27.58%	1,559,829
Total Expenses	\$ 2,332,557	\$ 13,733,851	\$ 31,577,390	\$ 17,843,539	43.49%	\$ 10,811,437
Excess Revenues						
Over (Under) Expenses	\$ (181,993)	\$ 2,173,381	\$ (7,774,425)	\$ 9,947,806		\$ 3,396,095

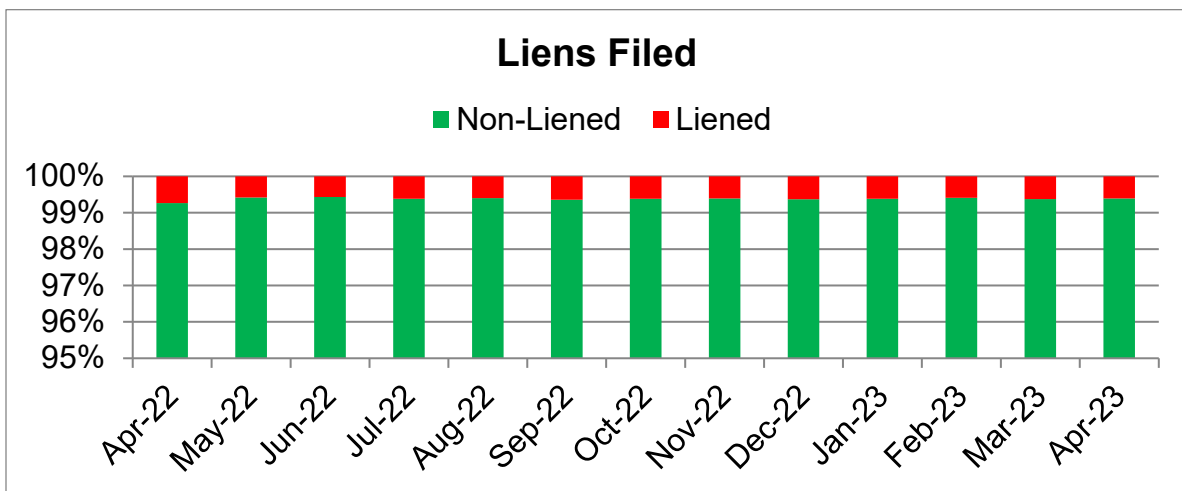
Total Capital expenses incurred and encumbered totalled \$17,023,779 or 134% of the capital budget. This includes funds encumbered in a prior fiscal year for projects that stretch across multiple fiscal years.

Accounts Receivable

The District's second quarter billing was \$4,613,964, of this amount \$3,778,599 represents customer balances that are either paid or current. The chart below illustrates customers' receivable status as a percentage of quarterly sewer billing. Paid or current balances represent approximately 82.0% billing.



The District serves approximately 33,286 customers. Currently, the District has 202 liens filed which represent approximately 1.0% 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 – **This matter is resolved.** 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. This claim has been closed because the Statute of Limitations to file a lawsuit has run out.



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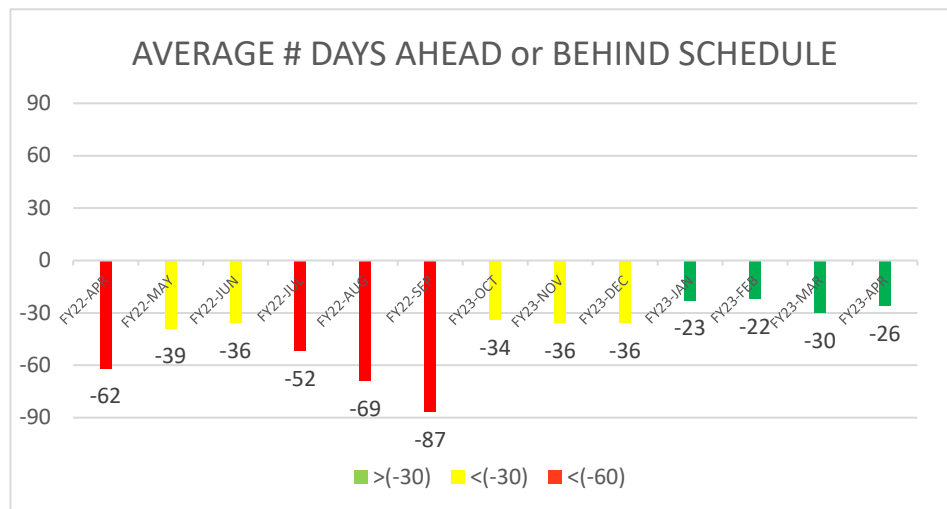
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MEMORANDUM

TO: D. Albrey Arrington, Ph.D., Executive Director
FROM: Kris Dean, P.E., Deputy Executive Director
Courtney Jones, P.E., Director of Engineering
DATE: May 11, 2023
SUBJECT: Capital Program and Engineering Services Report

Capital Projects

Capital Schedule (FLOAT = -26 Days)



Notable delays to the Capital Program are listed below.

R19011 – Lift Station 082 Conversion – Staff are working with the consultant and contractor to complete the project prior to the end of this fiscal year. See Holtz engineering consultant's report for additional details.

R20023 – Rolling Hills Gravity Sewer System – This project has reached substantial completion. Staff are waiting on the final punch list to be complete and close out documentation.

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R21002 – Lift Station 018 Main Lining – The contractor is working through the punchlist. The contractor provided a revised schedule showing punchlist completion in June 2023.

R20047 – Lift Station 041 Main Lining – The contractor is working through the punchlist. The contractor provided a revised schedule showing punchlist completion in June 2023.

R20036 – Loxahatchee River Subaqueous Crossing Replacement – USACOE and FDEP have revised the permitting requirements. This month staff are recommending a change order under Tab 5H.

N20019 – Permanent Generator at Headworks – The installation is complete. Staff and the contractor are coordinating start-up.

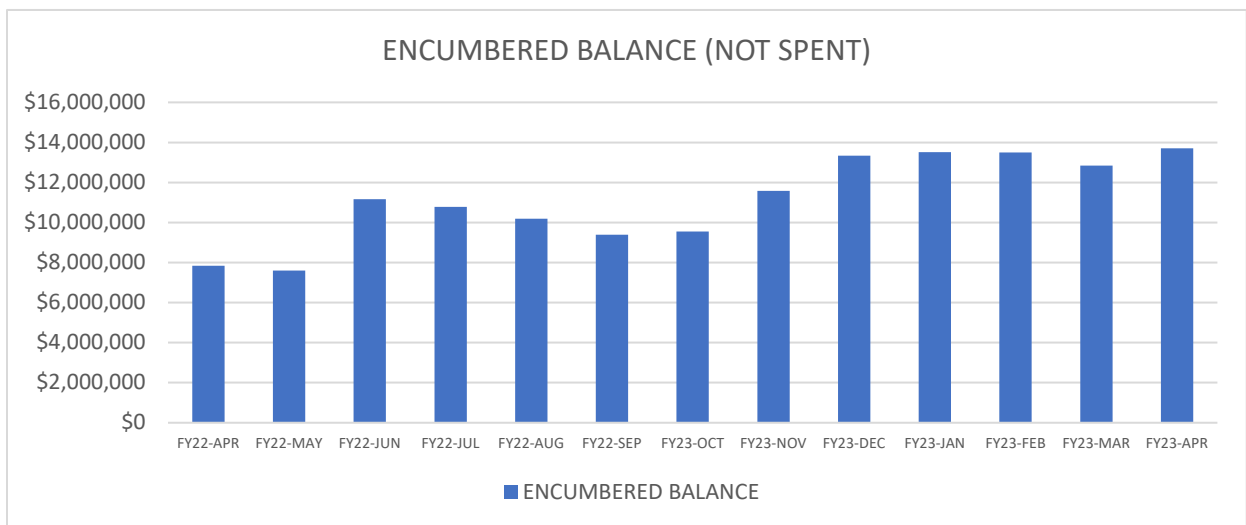
The overall negative (-) float is attributed to the following causes:

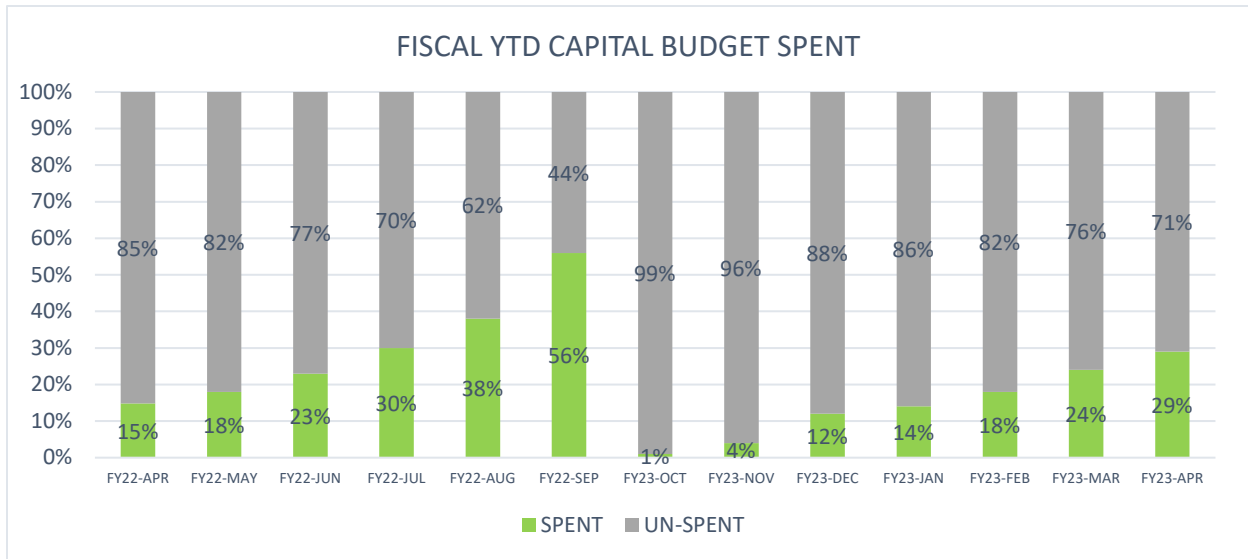
Construction Delays:	59%
Supply Chain Issues:	5%
Design/Permit/Bid:	23%
Late Start:	0%
Planning Contracts:	13%

Construction delays have the largest impact to the negative float (59% from 5 projects total). Staff are working with consultants and contractors to implement recovery schedules with project completions by the end of FY23.

Design/Permit/Bid also have a significant impact to the negative float (23% from 8 projects total).

Capital Budget





Project Updates

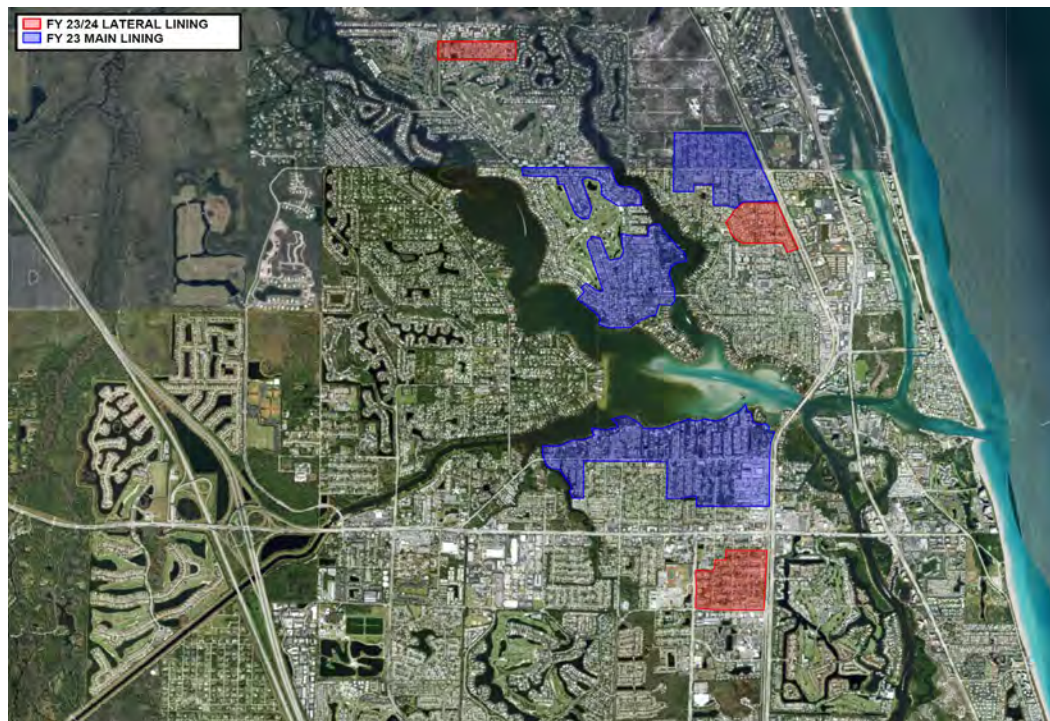
Science Center and Jupiter Inlet Lighthouse Outstanding Natural Area (aka: BLM House Renovations): Staff are evaluating alternate renovation approaches.

2500 Jupiter Park Drive Site Planning: Since the presentation to the Board in May 2022, staff and the consultant have continued to make progress on the massing study, architectural programming, potential treatment facility footprint and security review. Once these components are complete staff will provide revised site plans for Board discussion and consideration. See Chen-Moore's engineering report for more details.

20 Acres/9278 Indiantown Road: This month staff are recommending an engineering contract for design of lake remediation. See Tab 5B.

In-house Projects

Gravity System Rehabilitation – Cleaning, TV Inspection and Lining:



Main lining work is complete in LS018, LS041, and LS054 systems. Work is substantially complete with punchlist items remaining to reach final completion, now anticipated in June 2023.

The Board awarded lateral lining contracts for LS018, LS041 and LS054 in November 2022. A preconstruction meeting was held on January 11, 2023. The Contractor is currently working on cleaning and CCTV of the sanitary sewer laterals beginning in LS041 system. Cleaning and CCTV work anticipated to be completed in August 2023 and lateral lining work anticipated to be substantially complete in May 2024.

The Board also awarded main lining contracts for LS050 in November 2022 and LS070 and LS071 in December 2022. Work commenced in January 2023. Main lining work in LS050 is completed, and the Contractor is currently working on punchlist / closeout items. Main lining work in LS070 and LS071 to begin in May 2023. The Village of Tequesta's Council approved extended working hours as requested by the Contractor for the LS070 and LS071 project due to the longer curing timeframe, equipment and MOT set-up required for the larger diameter mains included in this project.

In April 2023, the Board awarded a main lining contract for LS011, LS012, LS014, LS027 and LS190 collection systems. Main lining work included in this project anticipated to begin following completion of the LS070 and LS071 main lining work.

Lift Station Rehabilitations General Construction Services:

Lift Station	Inspection	Design	Procurement	Construction
064	COMPLETE	COMPLETE	COMPLETE	IN-PROCESS
095	COMPLETE	IN-PROCESS	-----	-----
131	COMPLETE	COMPLETE	COMPLETE	IN-PROCESS
174	COMPLETE	COMPLETE	COMPLETE	IN-PROCESS
210	COMPLETE	COMPLETE	COMPLETE	IN-PROCESS
211	COMPLETE	COMPLETE	COMPLETE	IN-PROCESS
233	COMPLETE	COMPLETE	COMPLETE	IN-PROCESS
242	COMPLETE	COMPLETE	IN-PROCESS	-----

Pre-construction meeting was held on March 15, 2023 for LS064, LS131, LS210, LS211, and LS233 Rehabilitations. Material submittals and permitting is currently in-progress. Contractor was issued NTP for May 15, 2023 with anticipated substantial completion date of August 25, 2023.

LS174 rehabilitation is anticipated to be completed separately by in-house construction staff. Permitting for this project is currently in-progress.

Manhole Rehabilitation:

Staff utilized a piggyback contract mechanism to contract for select manhole rehabilitation work that has been identified per field inspections.

Pre-construction meeting was held on March 15, 2023 for five (5) manhole rehabilitations (LS087-MH20, LS087-MH21, LS065-MH50, LS062-MH45, LS154-MH01). Material submittals and permitting is currently in-progress. Construction anticipated to begin in May 2023.

Neighborhood Sewering/Remnant Properties:

5331 Center St.: Design and permitting are complete for 5331 Center Street. Pricing and material submittals have been coordinated with the Contractor and approved. Construction is currently in-progress. This project includes a single service to be installed in easements coordinated by the property owner.

18041 and 18049 69th Terrace: The property owner at 18041 69th Terrace provided easements and requested staff install sewers to a proposed two-unit residential project. Design and permitting are complete. Staff are coordinating with contractor for scheduling. This project includes a double service to be installed in easements.

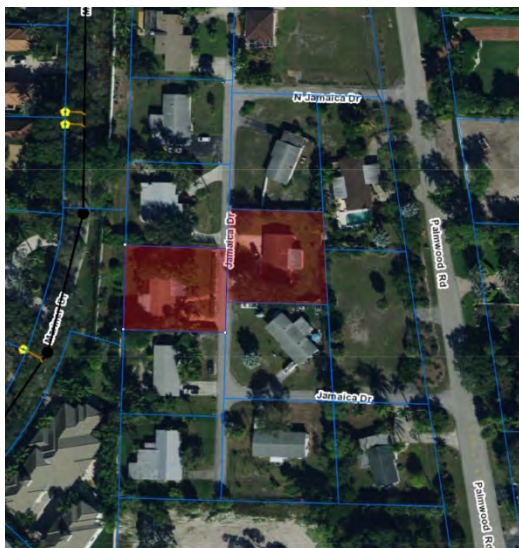
18150 SE Wooden Bridge Lane: Design, permitting and construction of the low-pressure service lateral are complete for 18150 SE Wooden Bridge Lane. The project includes a single service to be installed in the right of way. Service is available to the property owner. Homeowner has made connection and low-pressure station was started up on May 8, 2023. Project is completed.

109-111 Old Jupiter Beach Road: Design is complete for 109-111 Old Jupiter Beach Road. The project includes two services and low-pressure force main to be installed in existing roadway ingress/egress easement. Homeowners were provided information on 9/22/21 and 7/13/22, but no response has been provided. Project is on hold.

Island Way LPSS: Design is complete and project is in permitting. The project includes two services and low-pressure force main to be installed in the right of way.

Other: Staff are working with IT and customer service to confirm remnant sewerage and update priority listing based on property access rights.

Statutory Way of Necessity:



Jamaica Drive Low Pressure Sewer: Over the last two years staff have 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.

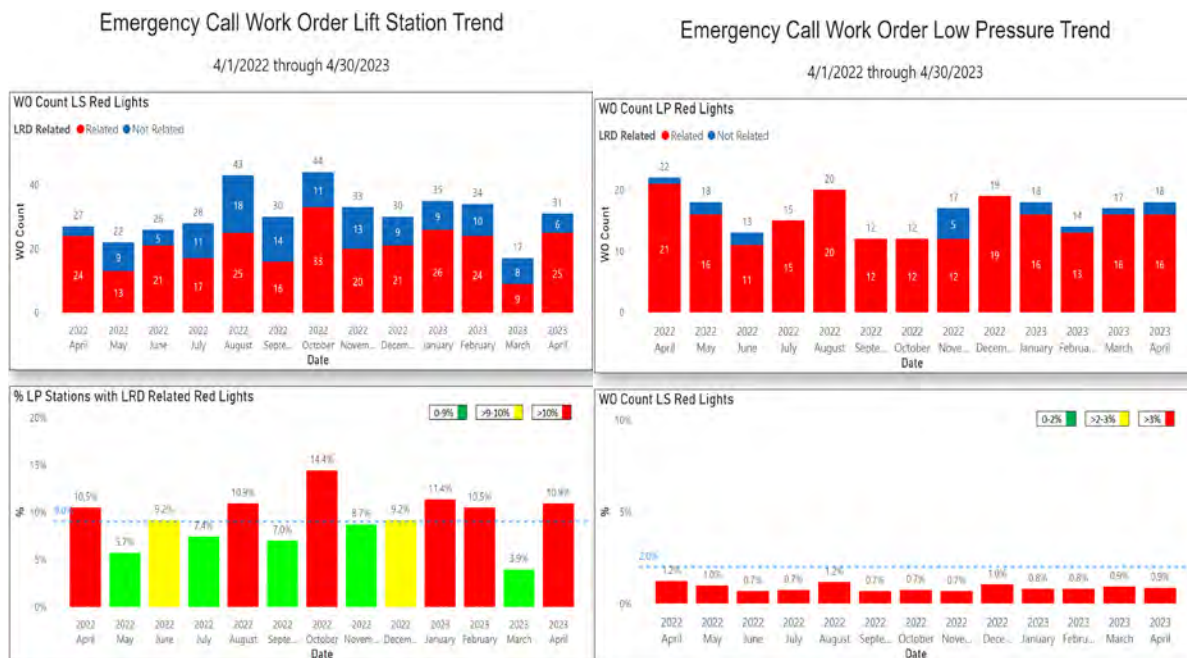
Agreements are in place. Pricing and material submittals have been coordinated with the Contractor and approved. Construction is currently in-progress.

COLLECTIONS AND REUSE

Lift Station Red Lights: This month the system experienced 34 total red lights. 16 lift station red lights (with 3 stations experiencing multiple red light events) and 18 low pressure red lights (with 2 stations experiencing multiple red light events).

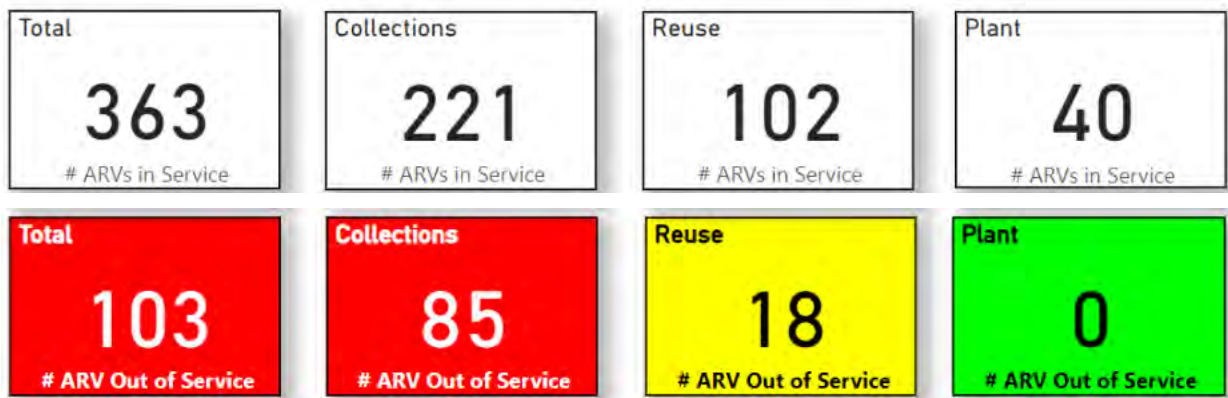


Work Order counts due to red lights exclude red lights due to FP&L power failure since staff have no mechanism to impact FP&L performance during inclement weather or other power outages. Staff continue to include FP&L power outages in the 3-month rolling average for repeat stations and work order counts to facilitate FPL coordination on problem areas and potential use of portable standby power to ensure continuity of service.

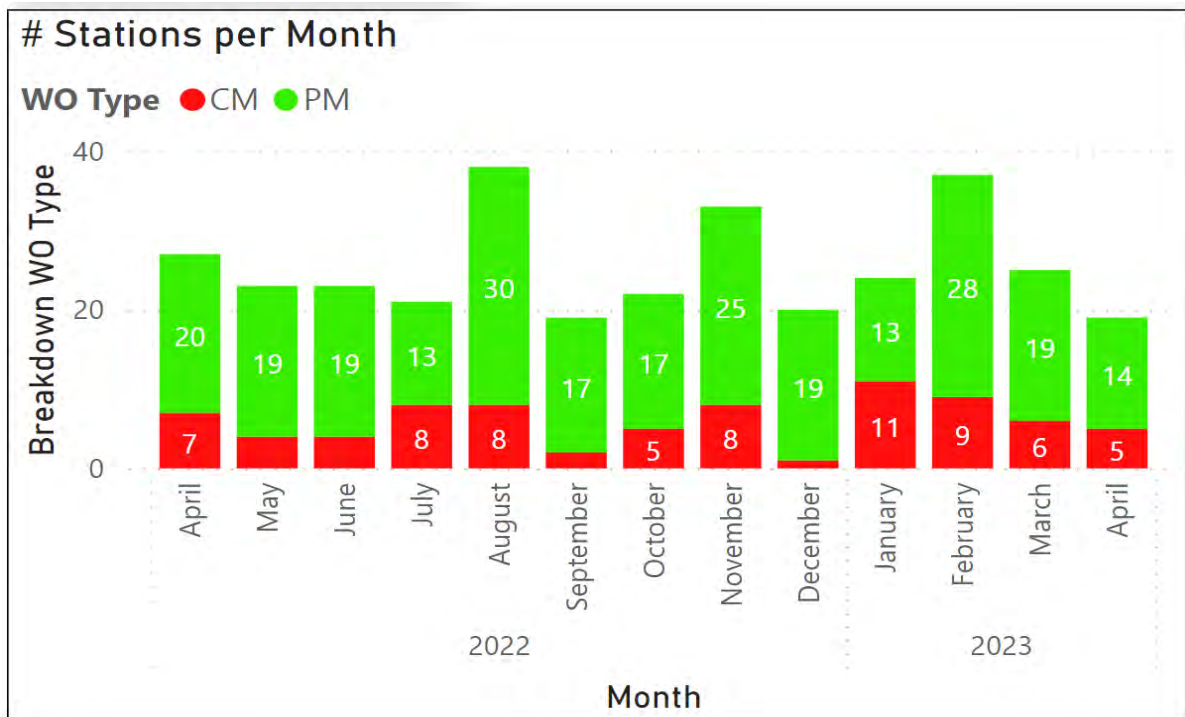


The low pressure chart for % of red lights is color coded incorrectly this month as well as the label. This will be corrected for the June report.

Air Release Valves (ARV):



Wet Well Cleaning:



UNAUTHORIZED DISCHARGES (fka SANITARY SEWER OVERFLOWS)

There were 0 unauthorized discharges in the collection-transmission-distribution system this month.



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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: May 12, 2023

SUBJECT: April 2023 Operations Department Monthly Report

Treatment Plant Division / Maintenance Department

Overall, the month of April was productive with all monthly reports prepared and submitted on time. There were no permit exceedances this month. The treatment plant generally operated efficiently and met all treatment objectives. During the month, influent flows to the plant were on the same order of magnitude as the previous month. The most significant change during the month was the significantly higher amount of rainfall received.

The plant experienced one (1) unauthorized discharge during the month of April. The discharge occurred due to a cracked 4-inch diameter cam-lock fitting which was threaded into a blind flange on an above ground, non-potable process water service line adjacent to the sludge storage tank odor control system. The discharge resulted in approximately 7,500-gallons of highly disinfected irrigation quality (i.e., reclaimed) water being discharged to grade where it percolated into the soil. No bodies of water or storm drains were affected because of the discharge and the area around the discharge was disinfected with lime. The discharge was reported to the appropriate regulatory agencies.

On April 18, 2023, a representative from Florida Department of Environmental Protection (FDEP) Southeast District was onsite to perform a routine compliance evaluation inspection of the District's wastewater treatment plant (WWTP) site. The intent of the inspection was to complete a detailed evaluation and review of the District's operating processes and procedures to ensure full compliance with all requirements stipulated the District's FDEP facility operating permit as well as Chapter 62-600 entitled "Domestic Wastewater Facilities" of the Florida Administrative Code. We are pleased to report that the inspection went well and the FDEP inspector did not identify any deficiencies or items requiring corrective action. Further, the inspector noted multiple times during the inspection that "the District always does things the right way". Receiving this type of feedback from a regulatory agency who is charged to provide oversight is very rewarding for Staff to hear.

Dr. Matt H. Rostock
CHAIRMAN

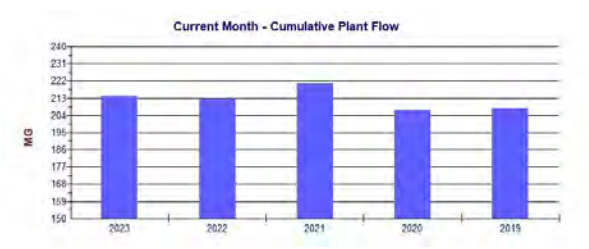
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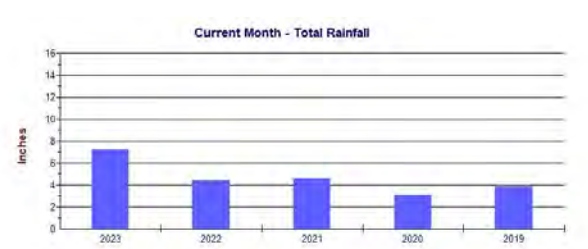
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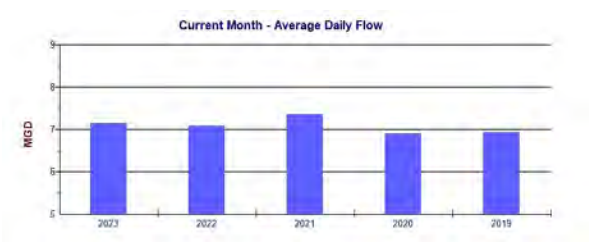
Graphical summaries of the plant flows and rainfall during the month of April, including comparisons with plant flows during the previous month (i.e., April 2023), are presented below.



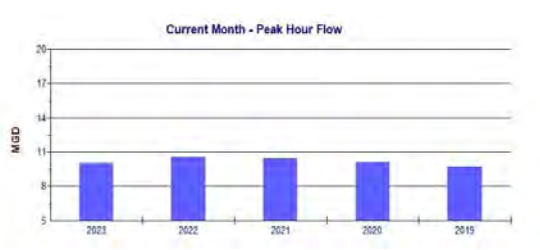
The Cumulative Influent Flow to the plant for the month of April was 214.01 million gallons. This is less than the March flow of 220.86 million gallons.



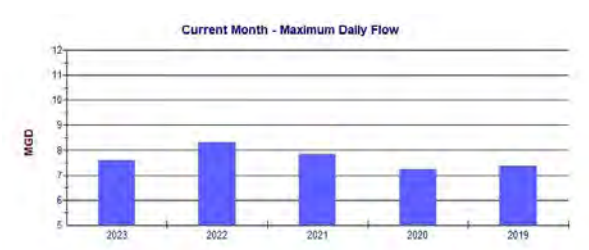
7.25 inches of total rainfall was recorded at the plant site during the month of April. This is significantly greater than the March rainfall recorded of 0.43 inches.



The Average Daily Flow (ADF) for the month of April was recorded at 7.13 MGD compared to 7.12 MGD during the month of March and 7.09 MGD during April 2022.

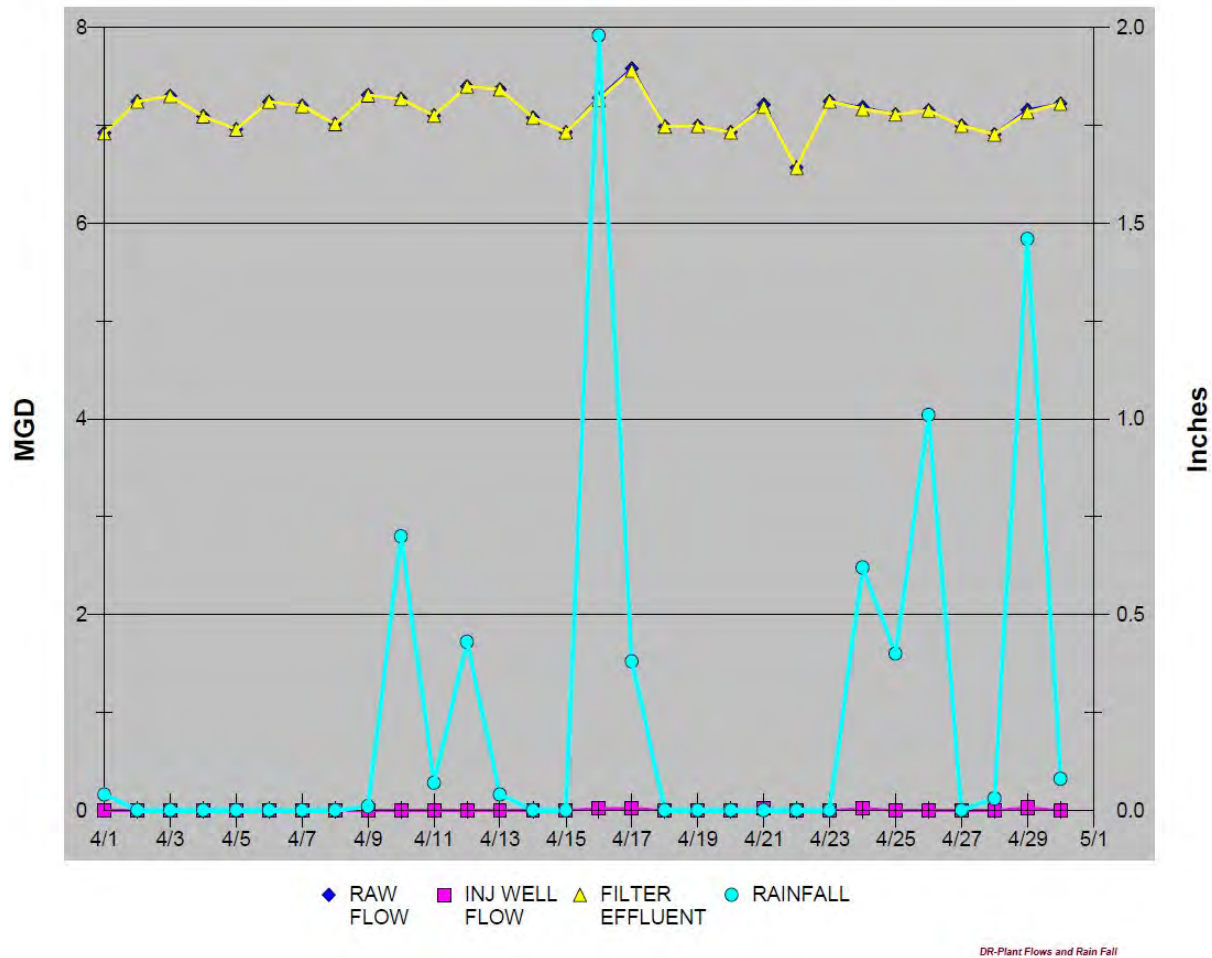


The Peak Hour Flow (PHF) for April was 6,958 GPM which equates to an equivalent daily rate of 10.02 MGD. This is a higher than the PHF for March of 6,174 GPM (8.89 MGD).



The Maximum Daily Flow (MDF) in April was 7.58 MGD. This is slightly greater than the MDF for March of 7.45 MGD.

For the month of April, 99.95% or 213.91 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 0.10 MG of blended effluent was diverted to the Deep Injection Well. The plant delivered a total of approximately 195.85 million gallons of IQ water to the reuse customers during the month of April.



Year to date (i.e., Calendar Year 2023), approximately 90.48% 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 887.37 million gallons.

All monthly reporting was submitted on time.

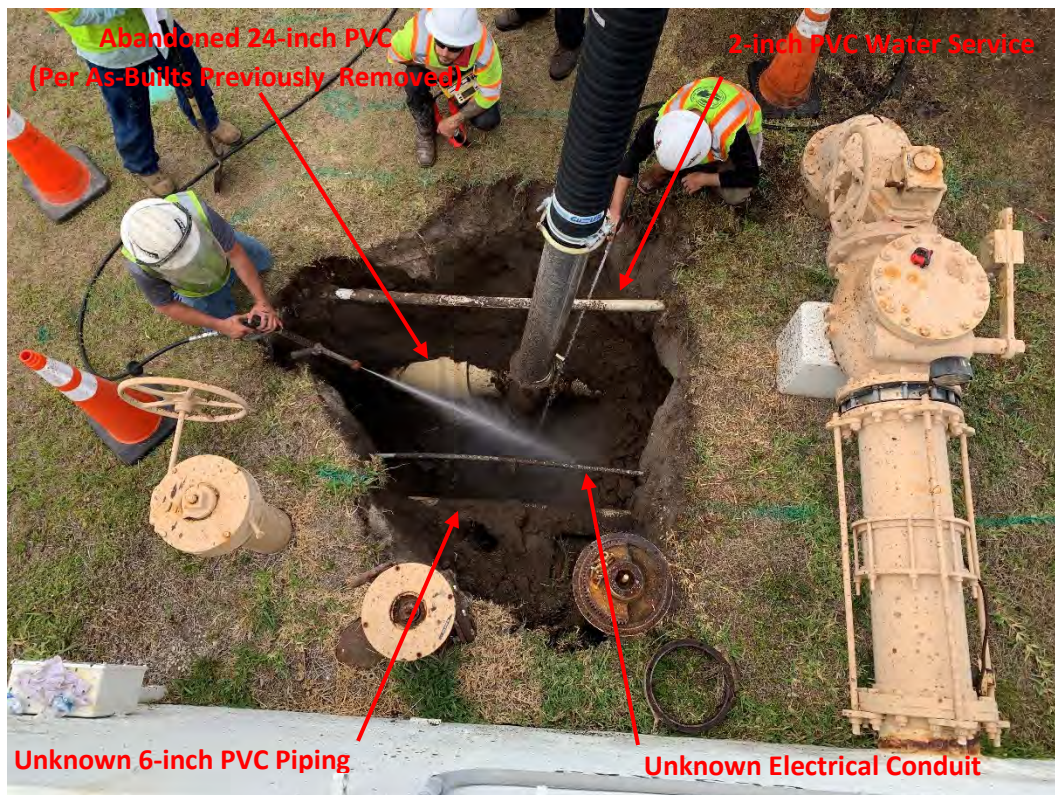
Treatment Plant:

Operations Staff continued to perform routine monitoring, sampling and general maintenance of equipment and structures. Staff also worked and/or provided operational assistance during the execution of various special and/or capital improvement projects. A few of the projects are discussed below.

Operations Staff worked closely with the Construction Team to perform a pre-construction investigation of the below grade piping immediately adjacent to the south side of the Return Activated Sludge (RAS) pump station. The work is associated with an ongoing capital project at the District's wastewater treatment plant (WWTP) which will be performed by the Construction Team and includes the replacement of an existing 16-inch diameter plug valve located on the influent piping dedicated to the Clarifier No. 3 wet well. Prior to performing the investigation members of the Operations and Construction Team reviewed the available facility as-built drawings to ascertain the general layout of the below grade utilities in the immediate area. The purpose of the investigation was to identify unknown conditions which could potentially impact construction. The subgrade investigation was performed utilizing a vacuum truck to excavate the soils in the vicinity of the proposed work. The use of a vacuum truck significantly reduces the likelihood for damage to the existing utilities and reduces the overall footprint of the excavation. In the end, the investigation identified multiple previously unknown obstructions which will need to be addressed (i.e., removed, temporarily relocated) to facilitate replacement of the below grade (**See photos below**) valve. The Operations and Construction Team as well as the District's Safety Officer subsequently worked together to develop a plan and approach to complete the valve replacement work safely and efficiently. The work will be scheduled and completed during the next month. This is a fantastic example of when a little bit of up-front leg work and proper planning goes a long way.



Subsurface Investigation at RAS Pump Station



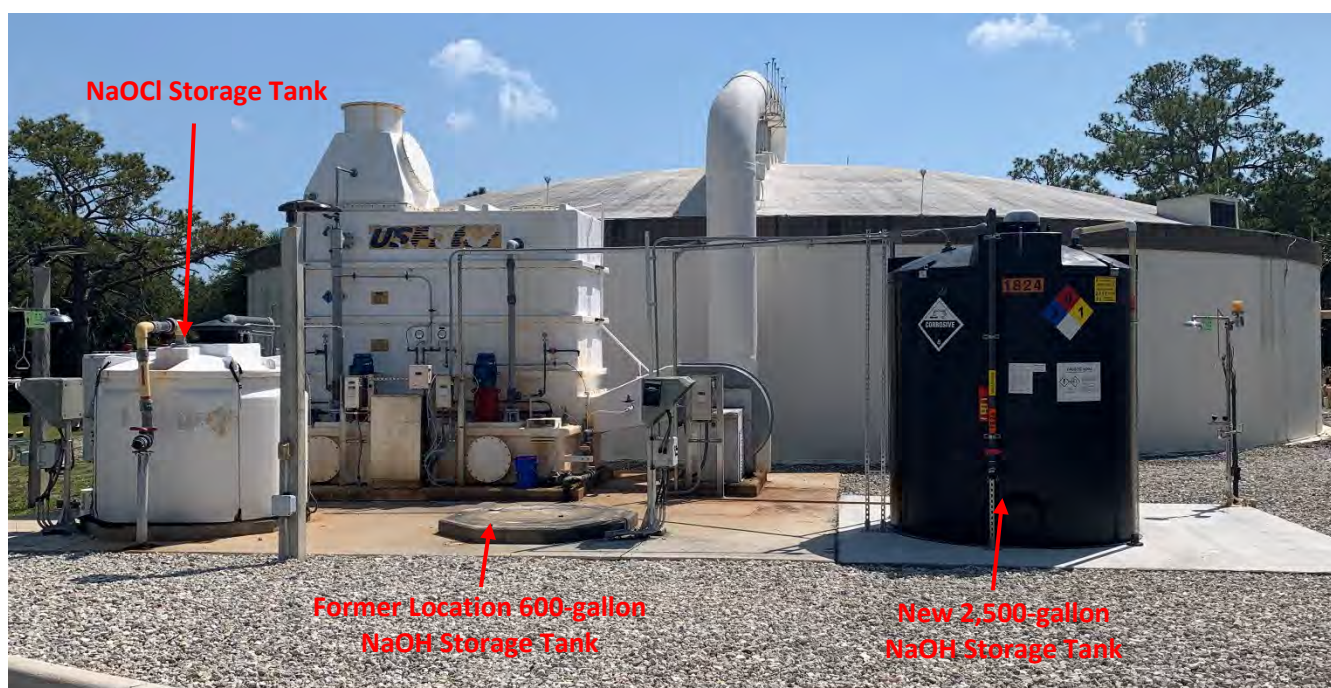
Unknown/Unidentified Utilities Discovered

During the month, Operations Staff worked with the Maintenance Team to perform critical maintenance on the four (4) slide gates at the Clarifier Splitter Box located at the southeast corner of the aeration basin structure. The primary function of the splitter box is to divert or isolate (when in the closed position) wastewater flow from the aeration basins to each of the four (4) secondary clarifier units. The gates need to be periodically adjusted (i.e., raised or lowered) to ensure the flow rates to each of the in-service clarifier units are approximately equivalent. As part of the maintenance activities, Staff re-programmed the limit switches which provide position feedback to the WWTP SCADA system.



Clarifier Splitter Box Slide Gates at Aeration Basin Structure

Lastly, the Operations Team worked with our outside odor control vendor (Evoqua) to increase the available sodium hydroxide (NaOH) storage tank capacity located adjacent to the sludge storage tank odor control system. The odor control system is a chemical scrubber type system which uses both sodium hydroxide and sodium hypochlorite (NaOCl) to maintain the optimum chemistry within the scrubbing solution to neutralize the hydrogen sulfide (which produces rotten egg smell) in the air captured from the top of the sludge storage tank. The existing tank had a capacity of 600-gallons and could provide approximately 1-week of storage based on the daily usage. Unfortunately, as a result of recent chemical supply chain and freight issues, there were an increasing number of instances when the system would run out of sodium hydroxide due to delivery delays. After discussing the issue with Evoqua it was decided that the installation of a larger, 2,500-gallon storage tank was warranted. The larger tank would provide additional capacity in the event that the chemical supplier was late delivering chemicals. Since the installation of the new storage tank, the system has operated consistently despite multiple delivery delays.



Sludge Storage Tank Odor Control – Chemical Storage Tanks

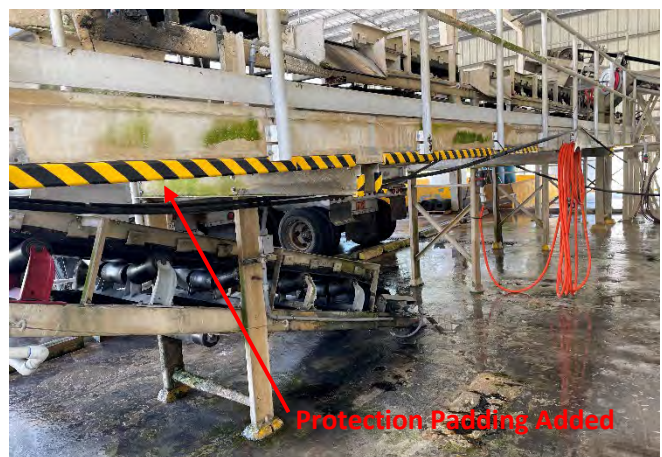
Maintenance Department:

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.

Maintenance Team members regularly meet with the District’s Safety Officer to review and address safety concerns documented through the District’s Near Miss reporting process. A Near Miss is a potential hazard or incident during which no person or property has been injured or hurt. Near Miss reporting is a process to identify and address safety concerns before an incident occurs because of the observed concern. During the previous month, Maintenance Team Members implemented corrective actions to address numerous safety concerns including: 1.) Replacement of safety chains across an elevated opening with a fixed railing system to mitigate a potential fall risk 2.) Replacement of safety chains across the ladder opening on an elevated platform to mitigate a potential fall risk 3.) Installation of padding on platform/walkway supports to mitigate a potential head injury. 4.) Reconfiguration of an existing roof gutter system to eliminate a slip, trip and fall hazard due to algal build-up on the concrete sidewalk below.



Near Miss Item No. 1



Near Miss Item No. 3



Near Miss Item No. 2



Near Miss Item No. 4

During the month of April, Maintenance Team members also took advantage of the lower-than-normal water levels in the onsite irrigation quality (i.e., reclaimed) water storage lakes to complete maintenance of the vegetation along the lake banks and within the waterway. The vegetation was harvested and staged on the lake banks by a vendor and then the waste was removed and properly disposed of by District Staff.



IQ Storage Lake No. 1 Influent Channel – Pre-Harvest



IQ Storage Lake No. 1 Influent Channel – Post-Harvest



IQ Storage Lake No. 2 – Harvesting in Process

IQ

Lastly, Maintenance Team members prepared the surfaces and re-painted that exterior of Main Fuel Tank No. 3. The fuel tank is a concrete encased, above ground diesel fuel storage tank with a total capacity of approximately 10,000-gallons. The fuel tank is dedicated to the larger of the two main generators which are capable of powering all processes and equipment at the WWTP in the event of a power loss.



Main Diesel Fuel Tank No. 3 Repainting



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: May 11, 2023
SUBJECT: Information Services Monthly Governing Board Update for April 2023

WildPine Ecological Laboratory

Riverkeeper Project

In April, the lab staff and our partners collected 156 water quality samples from 30 monitoring stations throughout the watershed. A total of 67 fecal indicator bacteria samples were analysed in support of additional testing for the weekly bacteria monitoring program and the additional monthly testing in Jones and Sims Creeks.

The overall water quality score for April 2023 was “Fair” with 76% of all samples meeting the EPA/DEP water quality criteria. This was a significant drop from last month’s score of 89% and last year’s score of 82% for April (see score card below). This decline was driven by lower chlorophyll and bacteria scores, and corresponded with significant rainfall but low river flows, and unseasonably warm temperatures.

For the core parameters, *Total Nitrogen* scored “Good” during April with 100% of sites meeting the water quality criteria. This was identical to last month’s score, and similar to last year’s score of 96%. *Total Phosphorus* squeaked in a “Good” score with 80% of sites meeting the criteria. This was down from last month’s score of 100%, but similar to last year’s April score. *Chlorophyll* scores were declined from “Fair” to “Poor”, with only 43% of sites meeting the water quality criteria, but similar to last year’s score for April. For the combined *Fecal Indicator Bacteria* (fecal coliforms in all waters, enterococci in marine and brackish waters and *E. coli* in fresh waters), April scored “Fair” at 79%, down from last month’s score of 87%, and last year’s April score of 91%. It looks like the significant rains had an effect on bacteria levels in the river, especially in the freshwater portion, as indicated below in the monthly bacteria stoplight map below.

Dr. Matt H. Rostock
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

4/1/2022

4/30/2023



Loxahatchee River District Water Quality Scorecard

Results scored to FDEP/EPA Water Quality Criteria

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

Monthly Water Quality Score

April
2023

76%
Overall

157
Total Samples

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

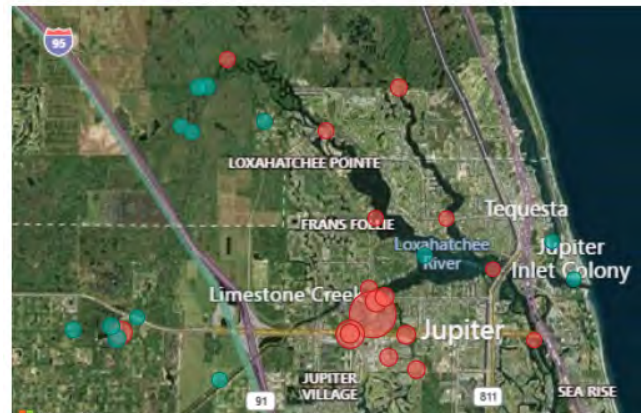
Year	Month	# Samples	Overall Score	# TN Samples	Total Nitrogen Percent Good	# TP Samples	Total Phosphorus Percent Good	# CLA Samples	Chlorophyll Percent Good	# BAC Samples	Bacteria Percent Good
2023	April	157	76%	30	100%	30	80%	30	43%	67	79%
2023	March	125	89%	19	100%	19	100%	19	74%	68	87%
2023	February	159	88%	28	93%	28	96%	28	75%	75	98%
2023	January	160	85%	30	100%	30	90%	30	53%	70	90%
2022	December	164	75%	29	93%	29	86%	29	76%	77	64%
2022	November	120	77%	18	100%	18	83%	18	56%	66	74%
2022	October	160	71%	30	100%	30	73%	30	40%	70	71%
2022	September	104	81%	19	100%	19	95%	19	79%	47	68%
2022	August	162	80%	26	88%	26	88%	26	77%	84	76%
2022	July	159	72%	30	93%	30	70%	30	47%	69	75%
2022	June	123	76%	16	88%	16	75%	16	69%	75	75%
2022	May	119	84%	21	95%	20	85%	20	80%	58	81%
2022	April	147	82%	26	96%	27	81%	27	48%	67	91%
Total		1859	80%	322	96%	322	84%	322	61%	893	78%

Spatial Distribution of Water Quality Results

In April, *Chlorophyll* results met the water quality criteria at 13 of 30 sites. The “Poor” stations were more dispersed this month, although most of them were saltwater stations. The highest concentration was observed at at the Center Street mobile home park (Station 735) in Sims Creek with 98 µg/L, nearly 18 times higher than the stringent FDEP water quality criteria of 5.5 µg/L. That is surprisingly high because staff did not observe any notable algae when sampling, although the creek has a sharp bend at the sampling point where water can lay stagnant during times of low flow. The other poor-scoring stations were scattered throughout the estuary, which has very strict water quality standards, with results ranging from 2 µg/L at Station 40, to near the Jupiter Inlet, to 43 µg/L at Station 74 in Sims Canal at Indiantown Road. Even though there was some significant rainfall in April, there were still low flows to the river. With the combination of warm temperatures, high productivity, and low flows may be driving some of these high results.

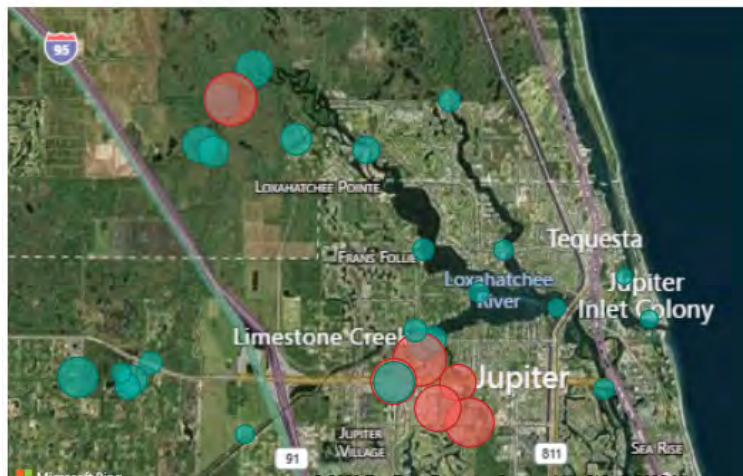
Chlorophyll a (ug/L)

CHL_Score GOOD POOR



Total Phosphorus (mg/L)

TP_Score ● GOOD ● POOR

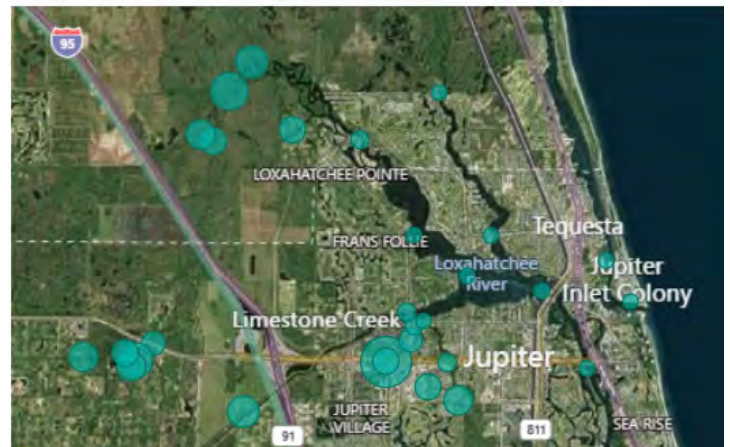


Total Phosphorus results scored “Good” at 24 out of 30 sites in April. The Center Street mobile home park (Station 735) again had the highest TP value at 0.135 mg/L, almost twice as high as the Numeric Nutrient Criteria (NNC) water quality standard of 0.075 mg/L for freshwater stations. As you can see on the map at left, all the “Poor” stations with the exception of Hobe Grove Ditch (HGD=0.133 mg/L) were in the Jones and Sims Creek basins.

Total Nitrogen scored “Good” at all 30 sites in April. Station 74 (Sims Canal at Indiantown Road) had the highest concentration at 1.5 mg/L, just under the NNC of 1.54 for freshwater stations. Hobe Grove Ditch (HGD) in the Northwest Fork was next highest at 1.0 mg/L.

Total Nitrogen (mg/L)

TN_Score ● GOOD



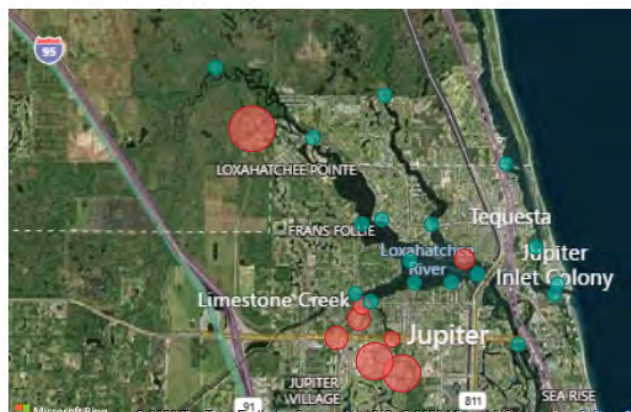
The overall *fecal indicator bacteria* results scored “Fair” in April, which corresponded with a possible early start to the wet season. It is important to note that the April samples were collected one day after a significant 2-inch rain event measured in Jupiter. The high bacteria concentrations are often observed after a significant rain event that follows an extended period of little rain, referred to as a “first flush”.

For *E. coli* (see map below right), the preferred indicator bacteria for freshwater, 6 stations scored “Poor” in April. Cypress Creek (Station 100) had the highest concentration at 1,989 MPN/100 mL. Staff observed turbid water flowing out of Cypress Creek at the time of sampling. The turbidity result was 6 ntu, which is the highest it has been in the past year. This suggests significant runoff that also contained bacteria that were washed into the river that affected nearby stations. The Trapper Nelsons site (Station 67), just upstream from Cypress Creek, had the next highest *E. coli* at 1,281 MPN/100 mL. Station 66, just downstream from Cypress Creek and near Hobe Groves, had the next highest *E. coli* at 1,401 MPN/100 mL.

Enterococci (see map below left), the preferred indicator bacteria for salt and brackish waters, scored “Poor” at eight stations which was not unusual. Six of the eight poor stations were sampled in Jones and Sims Creeks, with the high Enterococci concentrations of 1,989 MPN/100mL at both the Caloosahatchee Culvert (CALC) and Toney Penna Footbridge (TPJ) sites in Jones Creek. The other “Poor” scoring sites were River’s Edge (Station 107), the highest at 2,723 MPN/100 mL, and Riverside Drive Park (RDP).

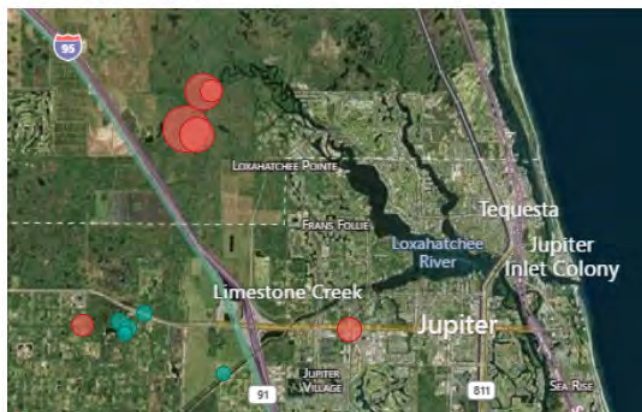
Enterococci Bacteria - Criteria: 130 MPN/100mL

ENT_Score ● GOOD ● POOR



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

ECOL_Score ● GOOD ● POOR

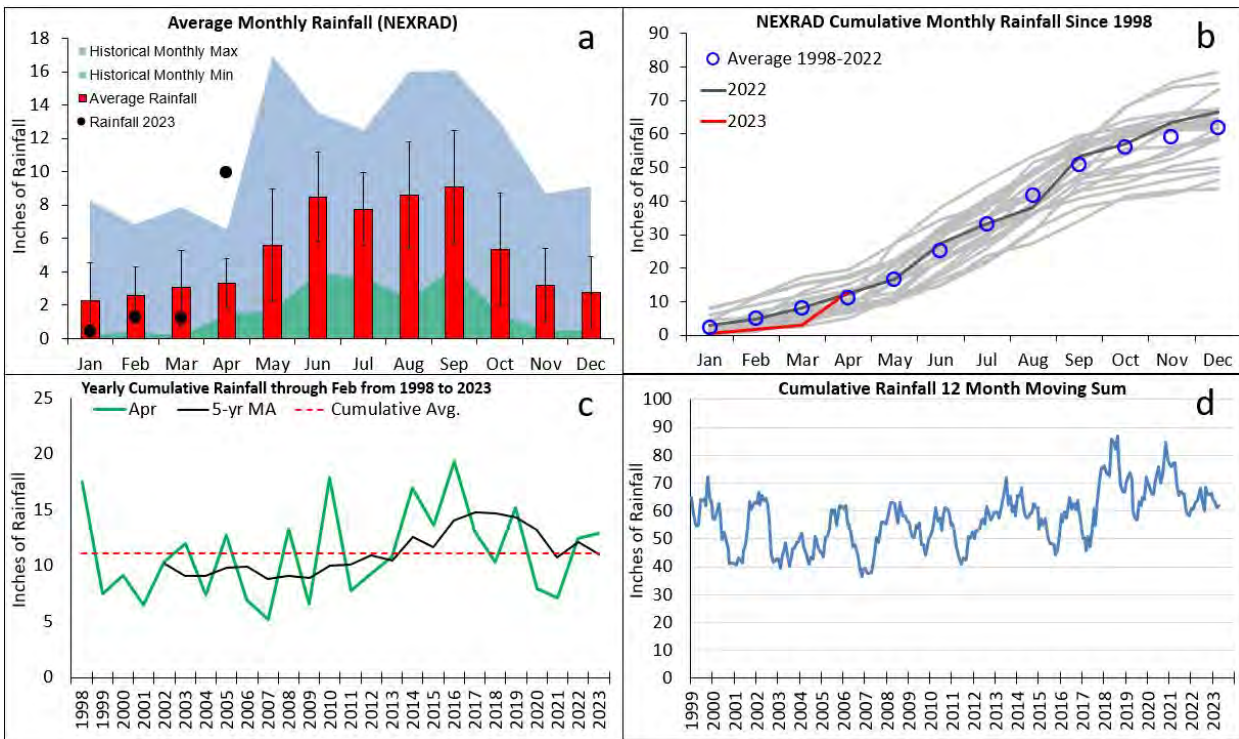


Hydrologic Monitoring

Rainfall

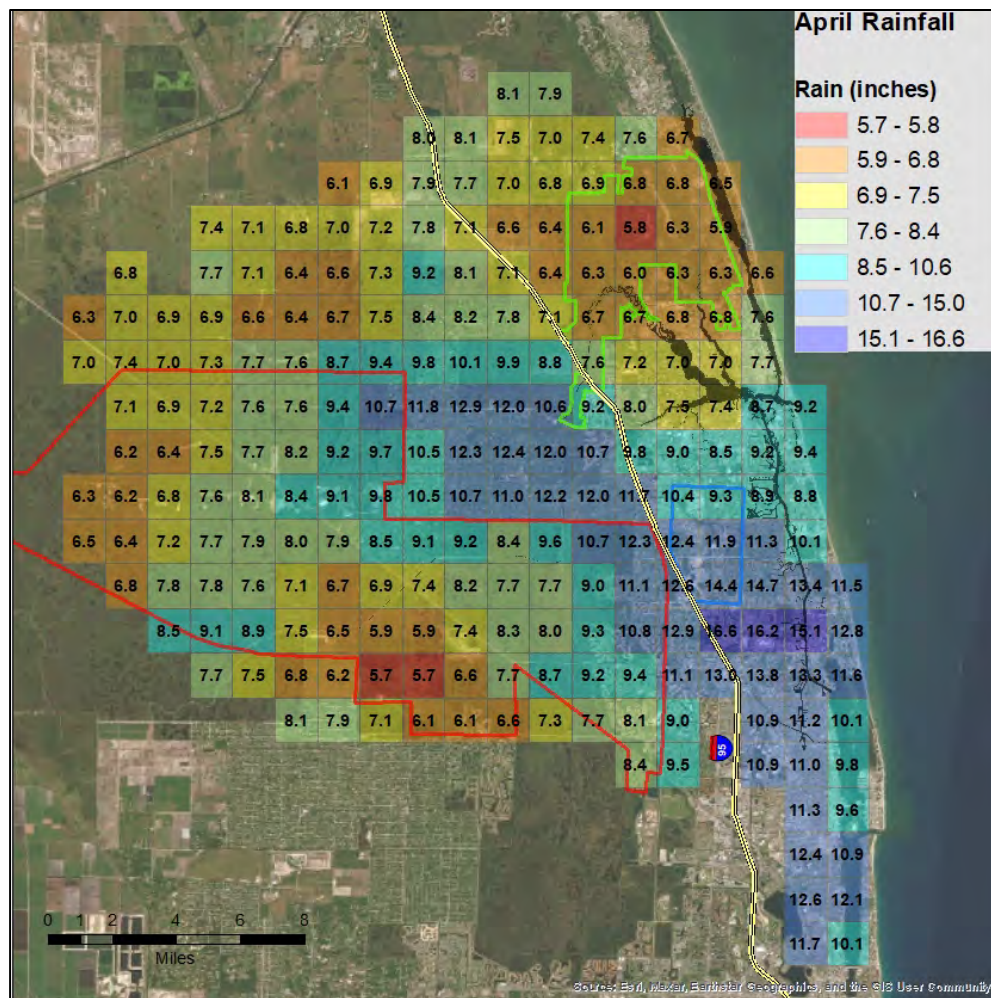
Rainfall during April ended what had been one of the driest starts to a year in the 25-year record of radar-based rainfall measurements across the watershed. April rainfall across the watershed averaged 10.0” inches (panel ‘a’ in figure below), three times the 3.3” historic rainfall for the month, and is by far the highest April rainfall on record with the next highest average at 6.5” recorded in 2017. Rain was detected within the watershed during 27 days in April, with the highest single day total of 1.6” on April 16.

The abundance of rainfall during April helped to slingshot the cumulative rainfall for the year to date to 12.9”, about 16% above the 11.1” average for the period (panel ‘b’ in figure below). Recent cumulative trends seem to indicate that yearly cumulative rainfall through April over the past couple years has settled near the long-term average (panel “c” below). Despite the recent dry conditions, the higher than normal rainfall last Fall in addition to rainfall in April has the 12-month moving rainfall sum at 67.0”. This is slightly higher, or 7%, than the 62.5” historical moving sum through April, but is on an overall declining trend compared to that of recent years (panel “d” below).



Figures above display various measures of rainfall. Panel (a) shows average monthly rainfall from 1998 to 2022 (red bars; error bars indicate ± 1 sd). Black dots indicate monthly rainfall for the current year. 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 2023; dark grey line indicates rainfall during 2022. Blue circles are monthly cumulative average rainfall measured between 1998-2022. Panel (c) shows cumulative annual rainfall using NEXRAD radar-based data. Green line indicates cumulative rainfall through indicated month 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.

The spatial distribution of rainfall across the watershed during April ranged from about 5.7” in the driest regions to just over 16.6” in the wettest regions (figure below). In general, the driest regions occurred in portions of Jonathan Dickinson State Park to the north and the Loxahatchee Slough in the south while the “wettest” regions were to the southeast and include Juno and Abacoa with a band extending northwest to portions of Jupiter Farms.



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. For reference, the red line is the C-18 basin which includes portions of J.W. Corbett WMA, Loxahatchee Slough, and Pine Glades Natural Area; green line shows Jonathan Dickinson State Park boundary, light blue line shows the Abacoa development.

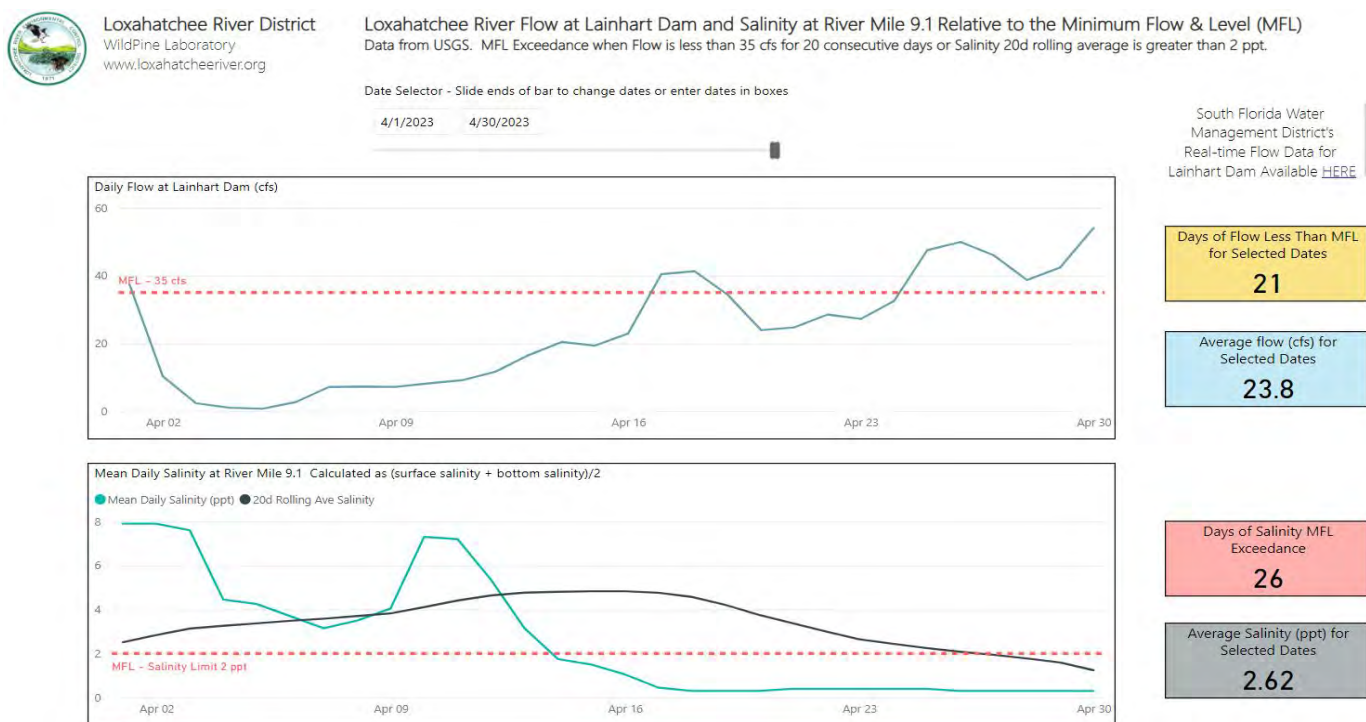
River Flows

Despite high rainfall during April, river flows in the northwest fork remained below the Minimum Flow and Level (MFL) target for most of the month (21 days), with an average daily flow of 23.8 cfs and range between 1 cfs to a peak of 54 cfs. Flow steadily increased throughout the month and ended the month with the peak flow of 54 cfs. There were no significant supplemental flows from Grassy Waters Preserve through the G-161 structure, however during April 26-27 minimal flow was released averaging just 6 cfs during the two-day period. Flow measured at Lainhart Dam was already above the MFL during these two days.

As river flow gradually increased through the month, bottom salinity at River Mile 9.1 averaged 2.6 ppt and decreased from a peak of nearly 8 ppt early in the month to below the 2 ppt MFL threshold by April 14 where it remained for the rest of the month (figure below). However, the 20-day moving

average (the criteria for the MFL exceedance) for salinity remained above the 2 ppt threshold until April 27 and ended the month at 1.2 ppt and resulted in 26 days of salinity MFL exceedances.

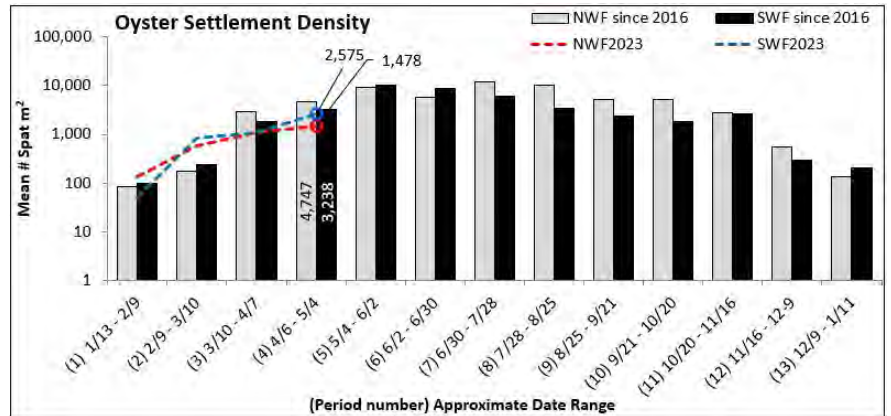
We continue to closely monitor flow and salinity conditions through our Minimum Flow and Level (MFL) data visualization tool (screenshot below and available at: <https://loxahatcheeriver.org/river/>) and coordinate our observations with the South Florida Water Management District staff.



April 2023 River Flow and Salinity. Top graph shows mean daily flow measured at Lainhart Dam (blue line) and the Minimum Flow & Level (red dashed line). Boxes at right is shown the number of days during the indicated date range that average daily flow was below the 35 cfs MFL flow target (yellow box) and the mean daily flow during the selected timeframe. Bottom graph shows mean daily salinity at the USGS River Mile 9.1 structure with the 2 ppt threshold line indicated (red dashed line). Boxes at right show the number of days of salinity exceedance (red box) and average salinity during the indicated period (grey box).

Oyster Spat Monitoring

Oyster spat settlement evaluation for the 27-day period ending May 1 showed marginally below average oyster spat settlement for the period. In the Northwest Fork, average spat density was 1,478 spat/m² with most, or 59%, of the activity occurring at the downstream site. This is substantially below the period average of 4,747 spat/m² as well as below the 2,248 spat/m² seen during the same period last year (2022).



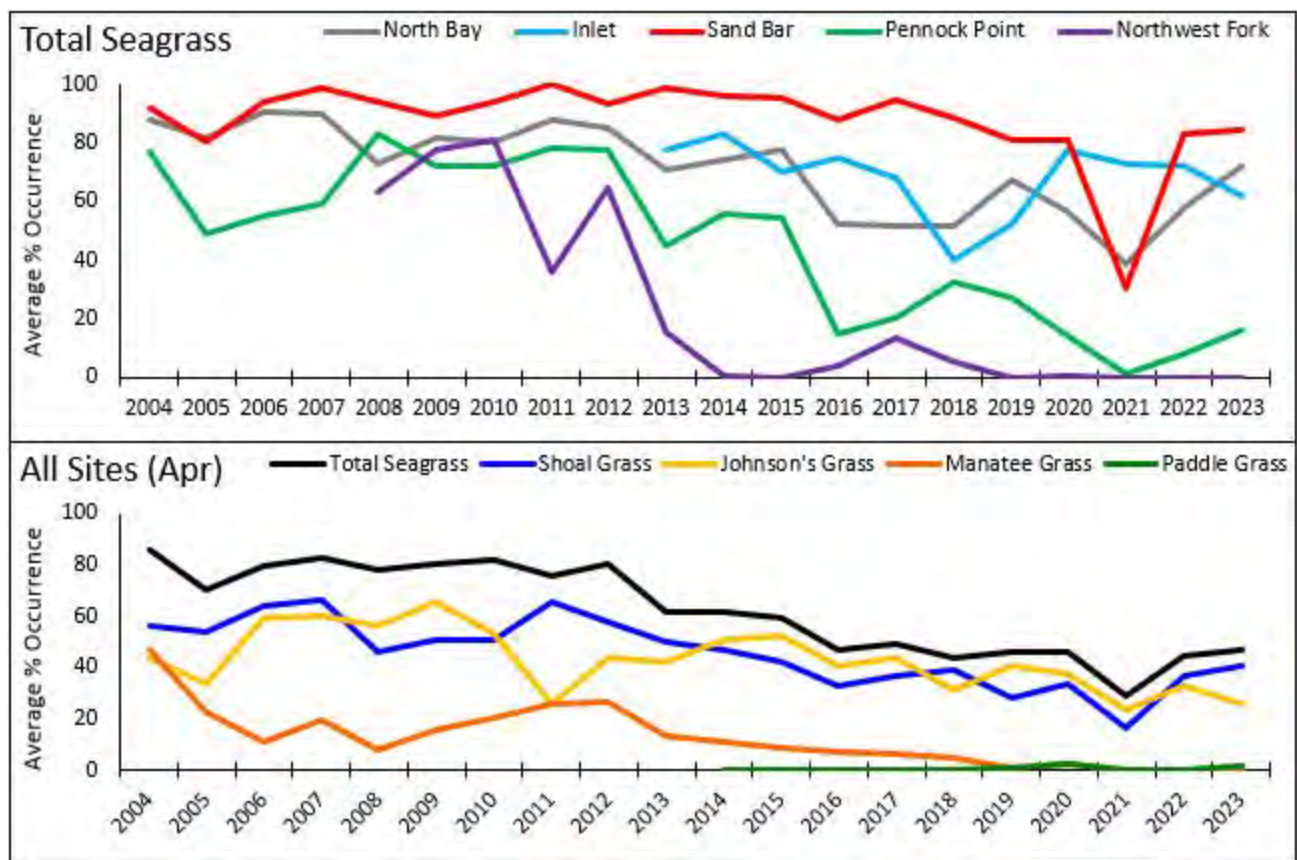
Mean oyster spat settlement for the Northwest Fork (gray bars) and the Southwest Fork (black bars) since 2016. Dashed lines show oyster spat settlement the current year in the NWF (red) and SWF (blue). Note logarithmic scale of vertical axis.

Oyster spat settlement in the Southwest Fork was also below average at 2,575 spat/m² with about 66% of the settlement occurring at the downstream site. This is about 21% below the period average of 3,238 spat/m² but is very near the 2,425 spat/m² seen during the same period last year (2022). The steady month to month increase of springtime spawning and settlement suggests continued healthy oyster population in both river forks.

Seagrass Monitoring

April marks the beginning of the District's annual seagrass monitoring as we enter the 20th year of uninterrupted monitoring of this critical ecosystem component. In short, the news remains cautiously optimistic as seagrass has shown a slight overall increase in percent occurrence in the past couple of years (figure below). This is especially true of the three legacy (original) sites of North Bay, Sand Bar, and Pennock Point. The Inlet site continues to oscillate around the average and does not appear to show any long-term increasing or decreasing trend. The Northwest Fork site, once abundant with seagrass, continues to show seagrass absence. However, upon visual scan of the bottom, a very small presence of shoal grass was spotted close to shore, so hope remains that seagrass may one day return to this site.

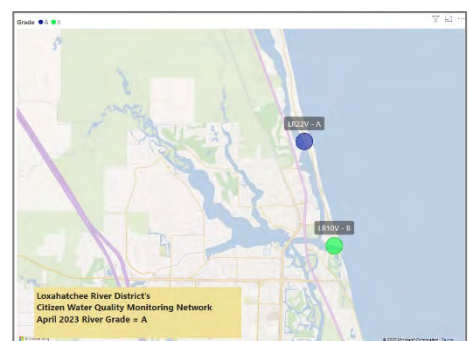
Much of the increase seen in seagrass presence is due to the increase of shoal grass. This seagrass species is the most abundant (highest percent occurrence) and widespread (found at all sites) seagrass in the Loxahatchee River Estuary. The diminutive Paddle Grass has also shown slight increases at a few of the sites. The recently delisted and renamed Johnson's seagrass (*Halophila ovalis*, formerly *H. johnsonii*), continues to show slight declines within the estuary, as does the once abundant Manatee Grass, which had shown somewhat of a slight recovery since 2021.



Figures above show average percent occurrence of seagrass by site (top) and by species (bottom) during April of each year beginning in 2004. The North Bay, Sand Bar, and Pennock Point sites include data back to 2004 when monitoring commenced. Northwest Fork (purple) and Inlet (light blue) were added to the monitoring program later as indicated.

Volunteer Water Quality

The weekly Volunteer Water Quality monitoring had another month of high scores for April, resulting in an overall “A” grade. All the parameters scored in the “Good” range for both sites. However, the one exception occurred during an ebb tide on April 30 at the Jupiter Inlet site. Extremely low water clarity (only 0.7 meters), low pH, DO and DO% saturation were observed on this day. These observations were associated with the outgoing tide that followed a period of heavy rainfall in the area.

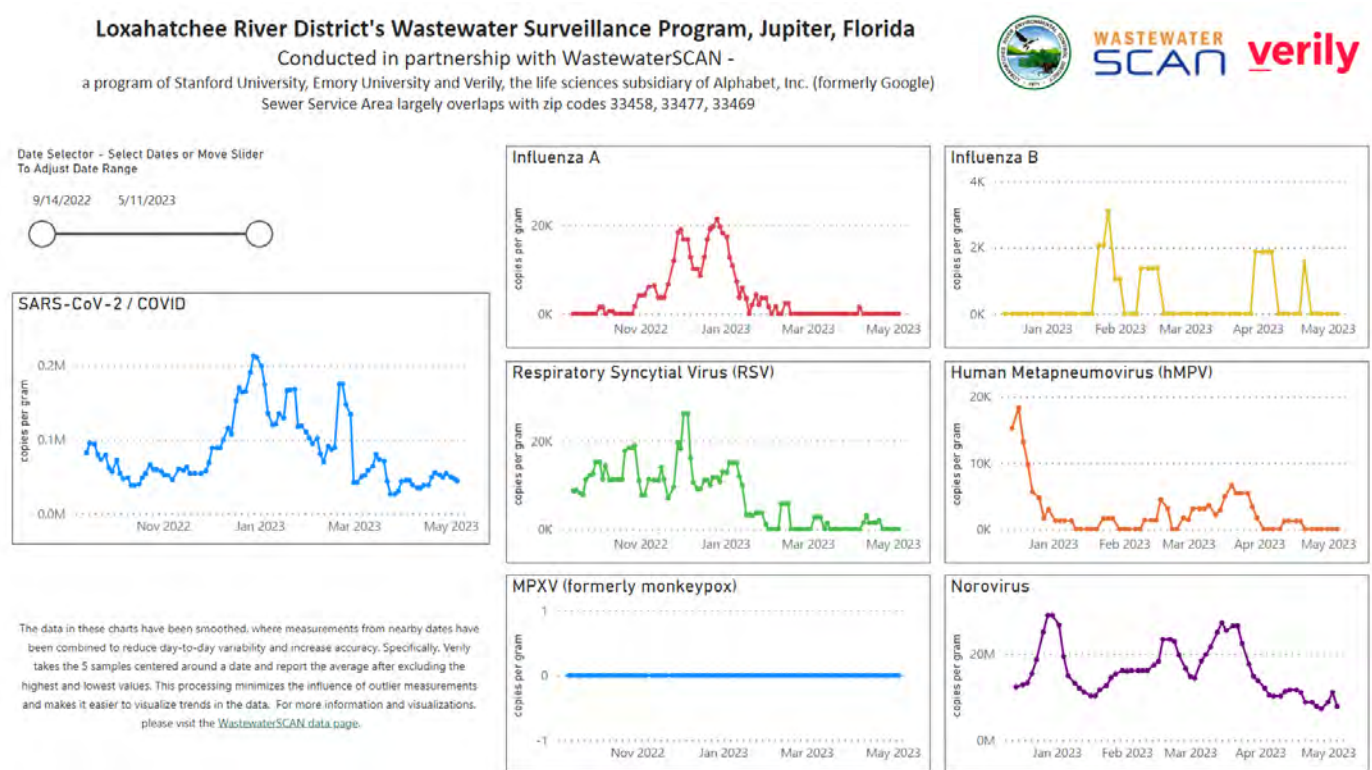


Site	Temp (F)	Secchi	Salinity	pH	DO	DO%	Color	Vis	Salt	pH	DO	DO%	Color	Score	Grade
LR10V	25.9	3.28	34.3	8.1	6.4	95.1	1.0	C	A	B	B	C	A	87.5	B
LR22V	24.2	1.10	36.3	8.2	5.6	80.9	1.0	A	A	A	A	A	A	100.0	A
Average	24.8													95.8	A

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

Wastewater Surveillance of COVID-19

In April, the wastewater surveillance monitoring for the Biobot/CDC and WastewaterSCAN programs showed a slight uptick in virus concentration of SARS-CoV-2/COVID, Respiratory viruses RSV and hMPV, and Norovirus, but the concentrations for all of the viruses have since declined.



Customer Service

Payment Processing

Distribution of the 2nd Quarter Bills began on April 13. Staff were then busy processing over 9,300 payments totalling nearly \$1.45M.

Customer Information & Billing System

Significant activity continues with the preparations for the implementation of our new Customer Information and Billing System. With the recent release of software enhancements to facilitate our processing needs, we have begun a series of training sessions, which have helped us identify some additional issues with the data conversion.

Our current plan is to do another test conversion for staff to practice with, refine procedures, and identify and resolve any remaining issues over the last two weeks of May, then hopefully go live in early June if all necessary functions are ready.

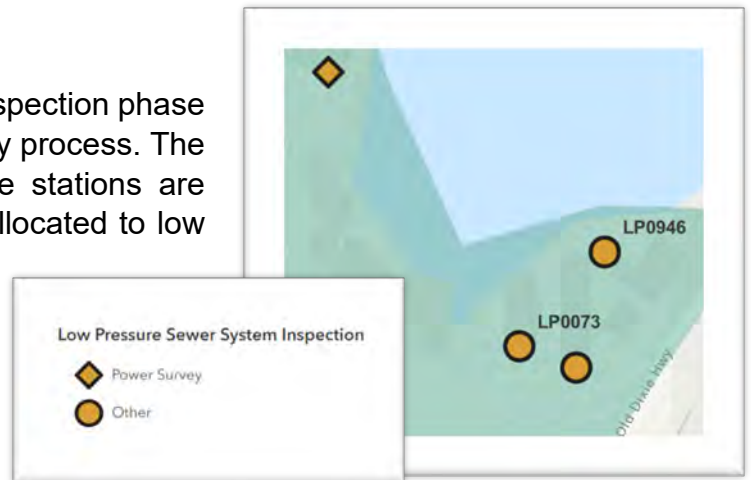
Information Technology (IT)

Updated emergency response mobile damage assessment tools with two additional maps.

The IT team and the emergency response team updated and added functionality to the mobile-device damage assessment tools that will be used during and emergency response. During the month of May, we are conducting training to ensure that the response team can use the tools properly and the analytics are functional for use by the command center staff.

Low Pressure Sewer Inspections

This year the team created tools for a new inspection phase assess power conditions early in the recovery process. The goal is to triage areas where low pressure stations are located so resources can more quickly be allocated to low pressure areas with no power.



Mobile device map screenshot for Low Pressure Stations with new symbology showing properties to be evaluated for the preliminary power status survey (diamond symbol)

Generator Staging

Our team created a new map-based tool for Generator Staging that supports the process that LRD has for staging generators during an emergency response. The crews responsible staging the generators will report the placement of a generator at a station which will then be visible on the response teams maps to ensure that the station has the proper generator.

Reuse Point of Connection Inspection (IQ POC)

Like our other pumping stations, we created a map-based tool to collect inspection data on our IQ Point of Connection sites. The crews will record pre-storm and post-storm condition to communicate current status to the recovery team so resources can be assigned to make sure the system will function properly after a storm.

Loxahatchee River Environmental Center

May 2023

River Center Summary Statistics



LRD'S ENVIRONMENTAL STEWARDSHIP DASHBOARD



		Total Visitors (incl. Visitors, Field Trips, Onsite Programs)	Average Program Participation [Actual participants/Capacity of Program]	Volunteer Engagement	1st Time Visitors	Visitor Satisfaction	Staff Overall Program Assessment	Expenses	Program Revenue
Benchmark / Customer Expectation		% of Target	% 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%	≥ 95%						
Green Level		≥ 90%	≥ 85%	≥ 90%	≥ 90%	≥ 4	≥ 7	≥ 85% but ≤ 105%	≥ 90%
Yellow		≥ 75%	≥ 70%	≥ 75%	≥ 75%	≥ 3	≥ 5	≥ 80%	≥ 75%
Red		< 75%	< 70%	< 75%	< 75%	< 3	< 5	< 80% or > 105%	< 75%
2020 Baseline		35%	50%	70%	65%	4.6	7.8	81%	103%
2021 Baseline		113%	83%	102%	275%	4.7	7.8	92%	85%
2022 Baseline		81%	120%	75%	163%	4.6	7.9	91%	94%
2022	Apr	104%	75%	136%	173%	4.9	7.9	97%	87%
	May	55%	86%	55%	147%	5.0	7.9	100%	153%
	June	86%	92%	105%	107%	4.8	8.0	100%	122%
	July	95%	84%	134%	164%	4.5	7.9	101%	123%
	Aug	88%	100%	147%	184%	3.8	8.0	91%	129%
	Sept	77%	86%	76%	178%	4.6	7.8	89%	120%
	Oct	79%	100%	118%	100%	4.9	7.4	55%	82%
	Nov	53%	104%	82%	111%	4.4	8.0	63%	88%
	Dec	94%	124%	50%	286%	4.6	7.9	96%	85%
2023	Jan	69%	76%	63%	338%	4.6	7.9	85%	92%
	Feb	79%	88%	82%	102%	4.7	7.8	85%	104%
	Mar	94%	91%	98%	304%	4.4	8.1	73%	87%
	Apr	116%	105%	91%	220%	4.7	7.5	79%	78%
Consecutive Months at Green		2	3	2	13	8	13	0	0
Metric Owner		O'Neill	Duggan/Warwick	Patterson	O'Neill	O'Neill	O'Neill	O'Neill	O'Neill
Metric		Explanation							
Expenses		We are running under the District's benchmark at the moment. Most of our expenses occur during the summer months. Purchases are being made now to prepare for this busy season.							
Revenue		We have delayed revenue coming from our summer camps and fishing tournaments that will post in June and July. Other paid programming.							

River Center General

Special Programs



Girl Scout Workshop: BUGS! [Saturday, April 1st]

On April 1st, the River Center conducted a Girl Scout workshop about Bugs! This workshop was designed for Daisy and Brownie girl scouts and was filled with a wonderful day of buggy fun. Our event included “Bugs 101” discussing what makes a bug a bug, why bugs are important and how we can help, exploration through our butterfly garden, two bug crafts, and a ladybug release. This was one of the first times many of our girl scouts had hands-on experience with insects and they were begging to go back

into the garden to look for more.

Lecture Series [Friday, April 7th]

Our April speaker was Benji Studt, Public Outreach Program Supervisor for the Department of Environmental Resource Management. Benji Studt is a scientist, conservation photographer, nature communicator, and explorer. For the last 5 years, Benji has led ERM’s public outreach team with the goal of inspiring real connections between the residents and visitors of the Palm Beaches, and the incredible public lands system that makes this area so special.



Wild & Scenic Film Festival [Saturday, April 8th]



On April 8th, River Center staff was invited to participate in the Jupiter Inlet Lighthouse and Museum’s annual Wild and Scenic Film Festival. A composition of short films was presented to a crowd of over three hundred like-minded environmental enthusiasts. One highlight from the night was the film “Hidden Wild” which was filmed here in Palm Beach County and featured our partners from Palm Beach County’s Department of Environmental Resource Management. The River Center was present to distribute information about the center and our upcoming events. It was a beautiful night for a film festival at the Jupiter Inlet Lighthouse.

Blooming in the Garden [Saturday, April 8th]

The Blooming in the Garden program is designed for children ages 3-6. The theme for this month was April Showers. We started by reading a story about the water cycle and all the different forms water can take. Set up around the garden were 6 water cycle stations for the children to explore. We made a cloud in a jar, watered our garden, filled our bird bath, and splashed around in sensory bins. Then we returned to the Chiki Hut to make a rainbow craft. We finished up with a hands-on rainbow rain experiment that was a big hit. When it was time to go home, the children received seeds to take home to start their own garden!



Homeschool Workshop [Wednesday, April 12th]

The River Center conducted a homeschool workshop for students ages 7-10. This month's workshop was the Water Cycle. River Center staff used student volunteers as water molecules to demonstrate evaporation, condensation, precipitation, percolation, and runoff. This activity introduced students to the various steps of the water cycle and helped them understand connections between the water cycle and all living things.



Science with Sam [Saturday, April 15th]

This month's Science with Sam class was on Chemical Reactions. Students in the chemical reactions class learned the difference between chemical and physical reactions, how animals use biological chemical reactions (bioluminescence) and experimented with some chemical reactions of their own. Students were able to experiment making their own lava lamps, titrating acids/bases, dissolving shells with vinegar, and creating a reaction with baking soda and vinegar.



Kayak Tour – Cypress Creek South [Tuesday, April 18th]

In celebration of Earth Day, the River Center hosted a public kayak tour to explore Cypress Creek South Natural Area. This natural area is filled with cypress trees and marsh and always fun to explore. Participants paddled through the natural area spotting osprey, black-bellied whistling ducks, red-shouldered hawks and of course, alligators. It was a beautiful day on the water and a great experience outdoors.

Earth Day at Pratt & Whitney [Thursday, April 20th]

On Thursday, April 20th the River Center participated in the Earth Day Celebration at Pratt & Whitney. This event, held in the Café, brought out organizations from Loggerhead Marine life Center and Palm Beach County Environmental Resource Management to promote and celebrate the environment. It was great to be able to engage a different type of audience and to interact with people in different industries. It was a unique and exciting outreach. The River Center looks forward to attending this event again in the future.

Jupiter U [Week of April 3, 2023]

On Monday, April 3rd, 21 people attended a tour of the Loxahatchee River District's Wastewater Treatment Facility. Participants walked to Head Works, the Aeration Basin, Clarifiers, Chlorine Contact, Biosolids, and the IQ storage ponds. They were also able to talk with two of our operators in the SCADA room to learn more about their jobs. The program ended with a quick demonstration of nitrogen cycle in the Operations Classroom.

On Thursday, April 6th, 14 people participated in a kayak tour of Fullerton Island (launching from Burt Reynolds Park). They learned about restoration projects at Fullerton Island, the habitats in and around the island and estuary. They even got to see river otters!! Earlier that day, 22 people participated in a program about Ocean Currents and Plastic Voyages that challenges participants to understand how difficult it is to remove plastics once they are in our oceans and on our beaches. The program focuses on reducing plastic use in our daily lives. The program was followed by a tour of the River Center.



Evening Lecture Series [Friday, April 21st]

Our April evening speaker was Jessica Pate, Founder and Lead Scientist of the Florida Manta Project for the Marine Megafauna Foundation. Jessica spoke about manta ray biology, global manta ray conservation, and what discoveries she has made about Florida's manta rays. Jessica also taught visitors how to become a citizen scientist and contribute to important manta ray research!



"Fish Like a Girl" Girl Scout Workshop [Saturday, April 29th]

On Saturday, April 29th, the River Center hosted our "Fish Like a Girl" workshop for Daisy, Brownie, Junior, and Cadette Girl Scouts. With the help of our educators and volunteers we provided a morning filled with Fishing 101. From knot tying, de-hooking, regulations, and conservation to casting practice, all topics were covered to prepare the girls for fishing. After the morning activities, the girls finally got to test their newly acquired knowledge and went fishing. Our new anglers reeled in 4 fish and even got to go home with their own new fishing pole, provided by Fish Florida.

Volunteer of the Month



Lily Langbert is our April 2023 Volunteer of the Month! Lily goes above and beyond to greet guests, keep the River Center beautiful and take care of all our wonderful animals. She is always so happy to help in any way that she can. Lily takes the initiative to ensure that our guests have a wonderful experience. Not only does Lily take care of our animals, but she also volunteers at special events. Lily loves the outdoors and learning more about animals. She also enjoys arts, crafts, and archery. Lily has a great attitude around the center and is always willing to jump in and complete anything that is asked of her and always with a smile! We love having her volunteer and are grateful for her consistent support every week!

UPCOMING EVENTS

RSVP at www.lrdrivercenter.org/events-calendar
rivercenter@lrccd.org or 561-743-7123

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

May 13, 10 – 11:30 a.m.: Blooming in the Garden [May Flowers]: 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 Chiki Hut 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! This is an exciting opportunity for little ones and their families to enjoy nature together!

May 17, 10 a.m. – 12 p.m.: Kayak Tour – Wild & Scenic Loxahatchee River: Join the River Center for our Public Kayak Tour on the anniversary of the Wild & Scenic designation for the Loxahatchee River. Paddle through the cypress swamp and travel back in time to when the Seminoles traveled the river. All equipment will be provided but interested participants should bring water shoes, sunscreen, and plenty of water! The cost for this program is \$20 per person. Make sure to reserve your spot today! Space is limited! Kayak Difficulty Level: DIFFICULT – recommended for Intermediate to Advanced Paddlers.

May 20, 1:00 p.m. – 2:30 p.m.: Introduction to Volunteering: Do you have a passion for the environment? Do you enjoy interacting and educating the public? The River Center is looking for enthusiastic and personable volunteers to join our River Center team! Individuals 14+ are invited to attend the next Intro to Volunteering workshop from 1:00 PM – 2:30 PM. For questions or application information please contact our Volunteer Coordinator Rebecca Patterson at 561-339-3107 or Volunteer@Lrecd.org

June 1, 9 a.m. – 3 p.m.: Adult Summer Camp: For adults that wish they could do all the fun things that the kids get to do during our summer camp! This is a high adventure, intensive day of fun in the sun. Participants will be able to kayak, snorkel, hike, fish and more. Space is limited. Call to RSVP.

June 2, 10 a.m. – 12 p.m.: Sandbar & Seashells Boat Tour: 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 3, 9:30 – 11:30 a.m.: Exploring Archery: Join the River Center for our introductory archery workshop! Learn about the complex history of archery, uses, safety and basic skills. All equipment will be provided but interested participants should bring comfortable clothing, closed toed shoes, water and sunscreen.

June 3: 3 p.m. – 4 p.m.: Science with Sam Family Fun [Nature Scavenger Hunt]: On select Saturdays from 1:00 pm – 2:00 pm, join our Scientist Sam for different science activities for children 6-12. Activities will include garden exploration and hands-on opportunities with wildlife. Each month has a different theme! Participants will participate in a scavenger on the trails at the Jupiter Inlet Lighthouse Outstanding Natural Area.

June 7, 7 p.m. – 8 p.m.: Sunset Hike at Juno Dunes: Come explore with us! Tie up your hiking boots and join the River Center for our Nature Walk through the Juno Dunes Natural Area. Walk along the guided paths and immerse yourself in this local natural area. We will explore a path inside this natural area with uneven, sandy terrain. Interested participants should wear closed toed shoes, long pants(recommended), a walking stick, comfortable clothing and bring plenty of water. Please RSVP to attend. Space is limited.

June 9, 10 a.m. – 11:30 a.m.: Wilderness Skills [How to Prepare & Navigate]: This series is designed to educate participants on various wilderness skills to encourage outdoor recreation. Both classes will focus on different skills. Take both classes for the full experience.

June 10: 10 – 11:30 a.m.: Blooming in the Garden [Snail Tales]: 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 Chiki Hut 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! This is an exciting opportunity for little ones and their families to enjoy nature together!

June 10: 8:00 a.m. – 4:00 p.m.: Boating America Class: The River Center continues to collaborate with the US Coast Guard Auxiliary “Flotilla 52” to provide a series of Boating Safely Classes targeted specifically to young boaters in our community. These classes are provided through a generous sponsorship by

the AustinBlu Foundation, a not-for-profit dedicated to raising awareness and promoting educational programs to improve boater safety. There is no cost for this class, however there is a deposit required to reserve a seat. The deposit of \$10 will be refunded in full to all students who complete the class. Recommended for children 12 years and up, but all ages are welcome.

June 13, 9 am – 11 am: 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.

June 14, 10 a.m. – 11 a.m.: Tots on Trails [Delaware Scrub]: Let's get outside! Join the River Center for our Tots on Trails program, designed for children ages 2-6! Each month, we'll explore a new natural area in the Jupiter/Tequesta area. This month, we'll be at the Delaware Scrub Natural Area. Together, we'll walk the trail, observe plants and animals with our magnifying glasses & binoculars, and learn about the nature surrounding us. Additional activities may include scavenger hunts, trail games, and nature art. Adults and children should come prepared to be outside for an hour. This includes comfortable clothing, closed toe shoes, hats, sunscreen, bug spray, and water bottles. Limited to 20 children (+ their accompanying adults). All equipment is provided, and this program is free of charge. Donations are always welcome.

June 17, 7 am – 3 pm: AustinBlu Land & Sea Fishing Tournament: Join the River Center and the AustinBlu Foundation for the annual AustinBlu Fishing tournament on Saturday, June 17th. 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. 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 as well as partake in our various family-friendly activities during the event. Winners will be announced at 7:00 p.m.

June 20, 9 a.m. – 10:30 a.m.: Swamp Tromp [Cypress Creek Natural Area North]: Come explore with us! Tie up your hiking boots and join the River Center for first Swamp Tromp through Cypress Creek North Natural Area. Prepare to get wet as you travel through the swamp and immerse yourself in this local natural area. This is an intermediate to advanced hike. Participants can expect water up to their knees and traveling through mud. Interested participants should wear closed toed shoes that will get wet, long pants, a walking stick, comfortable clothing and bring plenty of water. Make sure to RSVP to this event! Space is limited.

June 21, 10 am – 12 pm: Lagoon Exploration: Join the River Center in a day of estuary exploration at our Family Seine and Dip Netting Experience at Blowing Rocks Preserve! Activities will include exploring our local waterways through dip netting and seining. Guests are welcome to bring their own buckets and dip nets. Please make sure to bring sunscreen, water shoes, and plenty of water!

June 22, 9:30 a.m. – 11 a.m.: Fishing Adventure [Jupiter Inlet Lighthouse Outstanding Natural Area]: Join the River Center on a fishing adventure to the Jupiter Inlet Lighthouse ONA. Bring your own pole or let us provide one for you. We will fish at the new pier on the Loxahatchee River and see what is biting that day!

June 23, 5 p.m. – 7 p.m.: Sunset Kayak Tour [Pine Glades Natural Area]: Join the River Center for our Public Kayak Tour to Pine Glades Natural Area. Paddle along through the freshwater marsh on our naturalist led tour for great views of local wildlife. All equipment will be provided but interested participants should bring water shoes, sunscreen, and plenty of water! The cost for this program is \$20 per person. Make sure to reserve your spot today! Space is limited!

June 24, 1:00 p.m. – 2:30 p.m.: Introduction to Volunteering: Do you have a passion for the environment? Do you enjoy interacting and educating the public? The River Center is looking for enthusiastic and personable volunteers to join our River Center team! Individuals 14+ are invited to attend the next Intro to Volunteering workshop from 1:00 PM – 2:30 PM. For questions or application information please contact our Volunteer Coordinator Emmy Weeks at 561-339-3107 or Volunteer@Lrecd.org

June 27, 7 p.m. – 8 p.m.: Sunset Hike [Pine Glades Natural Area]: Come explore with us! Tie up your hiking boots and join the River Center for our sunset nature walk through Pine Glades Natural Area. Walk along the guided paths and immerse yourself in this local natural area. We will explore a path inside this natural area with uneven terrain. Interested participants should wear closed toed shoes, long pants(recommended), a walking stick, comfortable clothing and bring plenty of water. Bug spray and a flashlight are highly recommended. Please RSVP to attend. Space is limited.

June 28, 9 am – 12 pm: Family 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 1 -30: Jr. Angler Fishing Tournament: The Loxahatchee River District's River Center, in partnership with Fishing Headquarters, is delighted to announce the 6th Annual Jr. Angler Fishing Tournament. Due to its high popularity last year with over 50 anglers, participation for this year's tournament is expected to grow. Interested anglers should mark their calendars and set their reels for Sunday, June 30th when the contest officially opens. Registration is now open! Anglers will have until August 3rd, 2019 to accumulate points in this unique catch-and-release tournament. By having the anglers photographed with the fish they catch and then submitted online. The contest is run over the course of several weeks instead of just a single day of competition. In addition, the contest awards points not only for the number of fish caught, but also for the number of different species represented in the submissions. The more fish you catch and the more species you catch, the better your chances are to win! These innovative guidelines encourage contestants to spend time throughout the summer exploring the diversity of habitats and fish species in our Palm Beach and Martin Counties.

July 12, 10 a.m. – 11:30 a.m.: Wilderness Skills [How to Make a Shelter]: Join River Center staff at our 20-acre property for this series to educate participants on various wilderness skills to encourage outdoor recreation. Both classes will focus on different skills. Take both classes for the full experience.



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: Ed Horchar Safety Officer
Date: May 10, 2023
Subject: District Safety Report for April 2023

Safety Metrics: April 2023

OSHA recordable injuries: Zero

Lost time injuries: Zero

Actual TRIR: 0.0 [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 for **seventeen** consecutive months. The District has sustained a Total Recordable Incident Rate (TRIR) of **0.0**, below our goal of 2.2. The District continues to experience a performance best period (recent history) for consecutive months with no recordable injuries.

The District experienced zero Motor Vehicle Accident's (MVA) in April. With a total of two MVAs in the last 12-month period, the MVA incident rate is at 2.2. Right on the LRD MVA goal of 2.2.

Sustainment:

Job Hazard Assessment (JHA) activity levels in April decreased about 11% comparable to March levels. The decrease in activity ends four consecutive months of increases in activity. The following is a comparison of April JHA's performed per employee in each participating department:

Reuse:	22 JHA / employee	Construction:	11 JHA / employee
Operations:	37 JHA / employee	Inspection:	22 JHA / employee
Collections:	33 JHA / employee	Wild Pine Lab	2 JHA / employee
Maintenance:	40 JHA / employee		

Dr. Matt H. Rostock
CHAIRMAN

Kevin L. Baker
BOARD MEMBER

Gordon M. Boggie
BOARD MEMBER

Stephen B. Rockoff
BOARD MEMBER

Clinton R. Yerkes
BOARD MEMBER

JHA and EAM:

The District has steadily increased JHA's created per work orders for the past five months. In April 96.5% (1136) of the total JHA's were completed via an EAM Work Order. Approximately 96% of all EAM Work Orders included a completed JHA, exceeding the District expectation of 95%. The following is a District comparison for the percentage of April EAM Work Orders created for which an electronic JHA was completed:

Reuse:	100%	Construction:	100%
Operations:	91%	Inspection:	92%
Collections:	99%	Wild Pine Lab	0 Electronic JHA's
Maintenance:	97%		

Another stellar month for District employees!

Near Miss Reporting:

There were 6 Near Miss reports initiated in April. Employees from Collections, Plant Operations, and Inspection all participated in this program in March. The hazards include trips, slips, and falls safety; equipment failure; chlorine cylinder valve caps, and vehicle near miss. The Near Miss's are input into the Work Order system if corrective action is warranted. As the program matures the process is improving and becoming more efficient. In the following months we will report on the volume of near misses receiving work orders and the percentage of those being closed. As a reminder, reporting safety issues in the Near Miss Reporting system includes Unsafe or Unhealthy Conditions, Environmental Pollution Potential, and Suggestions for Safety Process Improvement. This continuous improvement process will enhance the District's overall safety performance and help continue to keep District employees injury free. Your input is important, and each employee is encouraged to participate in this program.

Training:

District employees realized a 96% completion rate for all safety training tracked in April, exceeding the District goal of 95%. The focus in April was hand and power tool safety and annual bloodborne pathogen awareness training. A CPR/AED and First Aid class was conducted in April in which thirteen District Employees attended. A second CPR/AED class is scheduled to be conducted on June 7th. Contact Ed Horchar or Maureen Murray if you are interested in attending. Congratulations to Julian Bonilla, Chris Whalen, and Jerry Suarez-Prado for receiving their DOT Class B driver's license in April. A District Maintenance employee is finalizing their CDL Class B License in April, and one Construction employee is beginning the journey to obtain his CDL Class B license. All CDL Drivers who require a tanker endorsement have now obtained tanker endorsements. Congratulations on a job well done.



Construction Crew employees, Wyatt Fischbach and Tommy Cox utilize the Vac-Con's hydro-excavation and suction tube to evaluate the Influent Valve at the Raz Pit. Foreman Jason Broderick is directing the effort while Alex Smith (not shown) is remotely operating the vacuum tube.



A total of 12 Workplace inspections occurred in April. District jobs that were observed included Raz Pit influent valve replacement evaluation, CPR Training, chlorine building cylinder replacement, ergonomic evaluation, and various near miss report evaluations including facility tripping hazards and fall prevention concerns.

Safe practices continue to prevail as District employees have worked **Seventeen** consecutive months of injury-free work. Congratulation to all District employees! Injury free work demonstrates dedication to work smart and safely. Let's stay safe at home and at work. Feel free to visit with any questions or ideas you may have. And do not forget to utilize the near miss reporting system. Let's help each other stay safe and reach beyond our goals.



Thirteen District employees received CPR/AED Certifications in April. Scott Hargis (Left) and Leslie Mastrogiovanni (Right) are successfully performing the practical portion of the CPR training in the Education Meeting Room.





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D. Albrey Arrington, Ph.D. EXECUTIVE DIRECTOR

loxahatcheeriver.org

MEMORANDUM

TO: Governing Board
FROM: Administration Staff
DATE: May 12, 2023
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
Attorneys	\$ 4,000.00	\$ 75,368.05
Baxter & Woodman	\$ 26,683.35	\$220,983.93
Chen Moore	—	\$ 58,176.06
Holtz	\$ 69,968.93	\$287,341.19
Mock, Roos & Associates	—	\$ 88,294.00
Kimley-Horn & Associates, Inc.	—	\$ 41,188.00

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

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Future Business

General:

- Board Presentation of select Six Sigma green belt projects

Future Contracts:

- Lift Station 054 System Cleanout Installation - Construction Contract Award
- Lift Station 050 Emergency Generator and Automatic Transfer Switch – to approve Professional Engineering Services Agreement
- County Line Road Bridge IQ Main Relocation - Award Construction Contract
- Loxahatchee River Subaqueous Force Main Replacement – Award Construction Contract
- Rolling Hills Gravity Sewer System – Preliminary Assessment
- Lift Station Control Panel and RTU Upgrades – Award Construction Contract
- FY23/FY24 Main Lining – Award piggy back contract

