AGENDA

Lower Cape Fear Water & Sewer Authority 1107 New Pointe Boulevard, Suite # 17, Leland, North Carolina 8:30 a.m. – Long Range Planning Committee Meeting April 8, 2024

MEETING CALL TO ORDER: Chairman Knight

PRESENTATION: PowerPoint with 25 Year Master Plan Review (Capital Improvement Plan) presented by

McKim and Creed

DISCUSSION: Directors' Comments and Questions

ACTION/DIRECTION: Consider recommending to the Board for Approval at the May 13, 2024,

board meeting.

FUTURE MEETINGS FOR: TBD

ADJOURNMENT



DRAFT MASTER PLANNING DOCUMENT

25 Year Planning Period FY 2024-2049 Updated March 2024

Prepared for:

Lower Cape Fear Water & Sewer Authority 1107 New Pointe Blvd., Ste. 17 Leland, NC 28451

Prepared by:

McKim & Creed, Inc. 243 N. Front St. Wilmington, NC 28401 M&C Project No. 01675-0042 License F-1222



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Executive Summary

I. Kings Bluff Raw Water Facilities

The Authority's proposed 25-year (FY2024-FY2049) Capital Project budget for the Kings Bluff Raw Water Facilities is estimated at approximately \$206M. This includes a 48-inch parallel raw water main from the existing 3 MG ground tank to the US 421 service area that may be required in the future to meet the capacity needs of the US 421 area customers and CFPUA. The cost of this parallel main is estimated at \$61M and is subject to grant funding.

The following summarizes the primary drivers for the 25-year Capital Improvement Plan:

- Increase overall system capacity via new infrastructure and/or parts to meet long term raw water demands.
- Rehabilitate and replace infrastructure as needed to maintain system functionality of raw water pipeline.
- Plan and design system capacity in order to balance the supply with the demands and meet the needs of any potential customers.
- Design and construct maintenance system for pipeline in order to periodically clean pipeline and maintain station capacity.

The largest capital initiatives (over \$1 M) anticipated over the next twenty-five fiscal years is summarized as follows:

- New generators at King's Bluff Raw Water Pumping Station
- Walkway and Air Backwash Building Replacement
- Pig 48" existing water main from King's Bluff Pumping Station to 3 MG ground tank
- Pig future 54" water main from King's Bluff Pumping Station to 3 MG ground tank
- 20 MG Ground Tank
- 100 MG Reservoir
- Install 4th pump at King's Bluff Pumping Station
- Replace existing pumps at King's Bluff Pumping Station
- Install 48" parallel raw water main from 3 MG ground tank to US 421
- New 5th Pump at King's Bluff Pumping Station
- Installation of a new surge tank at the King's Bluff Pumping Station
- 48-Inch PCCP Inspection and Pig Ground Tank to US421
- 1.3 MW Solar Power Installation

In addition to these large capital initiatives, there are a several projects that are estimated at less than \$1 M, which include:

- Refurbish/rebuild existing pumps
- 5 ROW Acquisitions
- 48-Inch PCCP Repairs

II. Bladen Bluffs Regional Surface Water Facility

The Authority's proposed 25-year (FY2024-FY2049) Capital Project budget for the Bladen Bluffs Regional Surface Water Facility is estimated at approximately \$13.1M. However, it is noted that Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. All capital improvements and/or maintenance requirements listed in this document are for recommendation only and are the sole responsibility of SFC. LCFWSA would only be responsible for the recommended projects should LCFWSA assume full operation of the facility from SFC.

The following summarizes the primary drivers for the 25-year Capital Improvement Plan:

- Replace aging infrastructure and parts to meet long term demand
- Plan and design to maintain system capacity to meet current and potential future customer demands

The largest capital initiatives (over \$1 M) anticipated over the next twenty-five fiscal years is summarized as follows:

- New 1 MG Capacity Clearwell
- New High Service Pumping Station

In addition to these large capital initiatives, there are a few projects that are estimated at less than \$1 M, which include:

- Replace Pumps at Raw Water Pumping Station
- Replace Pumps at Recycle Pumping Station
- Replace Pumps at Transfer Pumping Station
- Replace Blower in Blower Building
- Replace On-Site Generators

The proposed CIP budget over the next 25 years has been compiled based on these initiatives. It is recommended that each project be periodically reevaluated, which provides an opportunity to reassess the budget and need for each. This will allow the Authority to adjust priorities and budgets based on meeting customer needs.

III. Capital Projects Evaluations

Each project identified in the CIP was evaluated for the following factors:

1) Category of Need

- Capacity the project is needed to either maintain current capacity or increase capacity to meet future need.
- Renewal/Rehabilitation the project is needed to replace or rehabilitate existing infrastructure to maintain capacity and operational readiness.
- Efficiency- the project is needed to increase or maintain the efficiency of the facilities and/or to maintain operations.
- Maintenance the project is required for a general maintenance need to maintain equipment and/or facilities in operational condition.

2) Criticality Score: 1 (Lowest) to 5 (Highest)

The criticality score was developed to for each project to provide a summary assessment of impact to operations as a driver for project implementation. Note that criticality levels provided in this document are specific to the fiscal year for which they have been identified.

Criticality Scoring Scale

1	2	3
The need for the project is low and does not fundamentally impact operational readiness	The project has a moderate impact on operations and may provide limited	The project is of critical need and will greatly impact operations if not
operational readiness	improvement to the facilities	completed.

3) Consequence of No-Action

In addition to the identification of the category and criticality assessment, a "Consequence of No-Action" statement has been included for each project. The intent of this statement is to clarify the impacts to operations, capacity, facility maintenance, etc. that would result if the project were not implemented.

4) Project Raw Water Demands

For capacity related improvements, updated customer projections were taken from the <u>May 2018 Preliminary Design Memorandum for the Lower Cape Fear Water & Sewer Authority Parallel Raw Water Main</u> report. A summary of the projected demands is provided as follows:

LCFWSA Projected Raw Water Demands

Customer	2015 Demands (MGD)	2025 Demands (MGD)	2035 Demands (MGD)	2045 Demands (MGD)	2055 Demands (MGD)	2062 Demands (MGD)
CFPUA	10.4	13.5	20.5	28.6	34.3	38.2
Brunswick County	19.7	25.1	30.6	36.67	43.89	49.8
US 421 Industries	2.0	2.0	2.0	2.0	2.0	2.0
Pender County	1.1	2.4	4.8	6.0	6.0	6.0
Totals	33.2	43.01	57.9	73.27	87.55	96.0

Kings Bluff Raw Water Facilities Capital Improvements LCFWSA Projects FY 2024-2049

PROJECT TITLE	New 4 th Pump at King's Bluff Raw Water Pump Station	KB 1
CATEGORY:	Capacity/Efficiency	

Summary:

 Provide a fourth raw water pump at King's Bluff Pumping Station to meet projected demands. (See #2 on legend in graphic below) Projected demands will exceed station firm capacity by 2037.

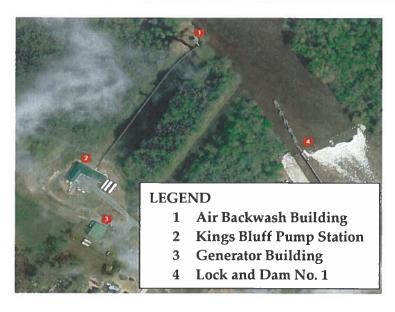
Justification:

- Increase station capacity to meet long term raw water demand.
- Firm capacity of station will require 3 pumps by 2037. Fourth pump will be standby/backup and added to pump rotation to reduce hours per pump.

Consequence of No Action:

• The projected demands at the station will exceed the firm capacity and the station will not be able to serve the project customer demand.

	V
1/4	2
DURATION (MONTHS)	24
REQUIRED COMPLETION	2029
TOTAL ESTIMATED COST	\$5,150,000
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2027 - 2028	\$3,850,000
2028 - 2029	\$1,300,000



PROJECT TITLE	Rebuild/Refurbish Existing 1600 HP Vertical Turbine Raw Water Pump	KB 2
CATEGORY:	Renewal/Rehabilitation	

Summary:

 Rebuild and/or refurbishment of an existing 1600 HP vertical turbine raw water pump originally installed in 2009.

Justification:

- Due to age and mechanical wear, it is anticipated that a rebuilding of one of the raw water pumps will be required.
- Rebuilding of pumps will extend the service life of the pumps

Consequence of No Action:

• The likelihood of failure of the pumps increases due to age and wear of the existing pump.

1	2	
DURATION (MONTHS)	12	
REQUIRED COMPLETION	2036	
TOTAL ESTIMATED COST	\$500,000	
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE	
2035 - 2036	\$500,000	



PROJECT TITLE	Generators at King's Bluff Raw Water Pump Station	KB 3
CATEGORY:	Capacity, Efficiency, Maintenance	

Summary:

• Provide new standby generator(s) and a new generator building at the pump station.

Justification:

- Requires upgrade due to future increased load associated with additional pump motor HP as well as larger quantity of pumps.
- A new building will be needed to house the new generators.

Consequence of No Action:

- The current generators are undersized to accommodate long term demands.
- The existing generators are anticipated to become cost prohibitive to maintain.

<u> </u>			
1	2		
DURATION (MONTHS)	24		
REQUIRED COMPLETION	2036		
TOTAL ESTIMATED COST	\$21,500,000		
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE		
2034 - 2035	\$2,200,000		
2035 - 2036	\$19,300,000		



PROJECT TITLE	Pig 48" Pipe from King's Bluff Pump Station to 3 MG Ground Tank	KB 4
CATEGORY: Renewal/Rehabilitation, Efficiency		

Summary:

• Pig 48" pipeline from King's Bluff to 3 MG ground tank. Repair and/or replace air release valves and blow-offs.

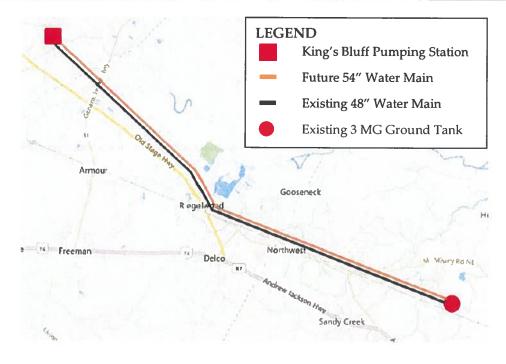
Justification:

- Pigging will maintain a clean pipeline free of sediment, silt, and debris cleaned or emptied in the case of an emergency.
- Improves efficiency of pumps by reducing frictional characteristics of the pipeline

Consequence of No Action:

- Potential for loss of capacity and/or clogging due to sediment buildup.
- Loss of efficiency and higher electrical costs

Criticality:				
1	2	3		
DURATION (MONTHS)	12			
REQUIRED COMPLETION	2041			
TOTAL ESTIMATED COST	\$2,100,0	000		
FISCAL YEAR	ANTICIPATED FISCAL Y	EAR EXPENDITURE		
2040 - 2041	\$2,100,0	000		



PROJECT TITLE	Pig 54" Pipe from 3 MG Ground Tank to US 421	KB 5
CATEGORY:	Renewal/Rehabilitation, Efficiency	
Carpana		

Summary:

 Pig 54" pipeline from King's Bluff to 3 MG ground tank. Repair and/or replace air release valves and blow-offs.

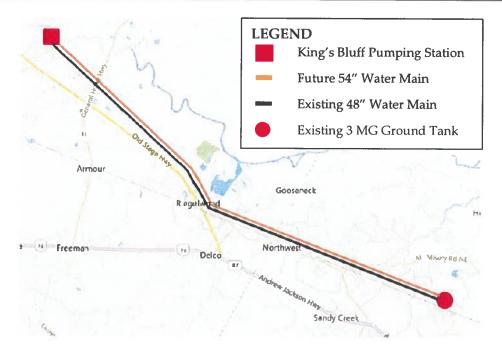
Justification:

- Pigging will maintain a clean pipeline free of sediment, silt, and debris cleaned or emptied in the case of an emergency.
- Improves efficiency of pumps by reducing frictional characteristics of the pipeline

Consequence of No Action:

- Potential for loss of capacity and/or clogging due to sediment buildup.
- Loss of efficiency and higher electrical costs

Criticality: Total Estimated Cost FISCAL YEAR 2034-2035 Criticality: 203 203 203 2035 ANTICIPATED FISCAL YEAR EXPENDITURE 2034-2035 \$1,800,000



PROJECT TITLE	Walkway and Air Backwash Building Replacement	KB 6
CATEGORY:	Renewal/Rehabilitation/Maintenance	

Summary:

- Funding for replacement of existing walkway from the King's Bluff Pumping Station to the Air Backwash buildings with a new concrete walkway.
- Upgrade/replace existing air backwash building. (See number 1 on legend below).

Justification:

- Walkway going from pumping station to air backwash buildings is currently in serviceable condition and will need to be replaced by 2025 due to rotting wood and overall weathering of walkway.
- During Hurricane Florence the walkway was nearing submergence
- Existing, original air backwash building needs significant improvements due to a loss of structural integrity caused by the general degradation of original building materials.

Consequence of No Action:

- Deterioration of the walkway could limit access to the air backwash buildings and raw water intakes.
- The air backwash facility will continue to deteriorate and create potential issues with protection of equipment and access for operations and maintenance.

_			
1	2	3	
DURATION (MONTHS)		12	
REQUIRED COMPLETION	2025		
TOTAL ESTIMATED COST		\$2,400,000	
FISCAL YEAR	ANTICIPATED	FISCAL YEAR EXPENDITURE	
2024 - 2025		\$2,400,000	



PROJECT TITLE	Replace Raw Water Pumps 1, 4, 5	KB 7
CATEGORY:	Renewal/Rehabilitation	

Summary:

• Replace 1600 HP vertical turbine raw water pumps 1, 4, 5 originally installed in 2009.

Justification:

• Due to age and mechanical wear, it is anticipated that replacement of raw water pumps 1, 4, and 5 will be required.

Consequence of No Action:

• The likelihood of failure of the pumps increases due to age and wear of the existing pump. The service life of the existing pumps will be expended.

	2
DURATION (MONTHS)	36
REQUIRED COMPLETION	2030, 2035, 2038
TOTAL ESTIMATED COST	\$15,700,000
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2029 - 2030	\$4,600,000
2034 - 2035	\$5,300,000
2037 - 2038	\$5,800,000



PROJECT TITLE	New Surge Tank at King's Bluff	KB 8
CATEGORY:	Capacity	
Summary		

Addition of a 4th surge tank at King's Bluff Pumping Station

Justification:

As demand increases, surges in the system will likely increase. The 4th surge tank will serve to mitigate system surges and protect the pumps, piping and miscellaneous equipment from surges and water hammer.

Consequence of No Action:

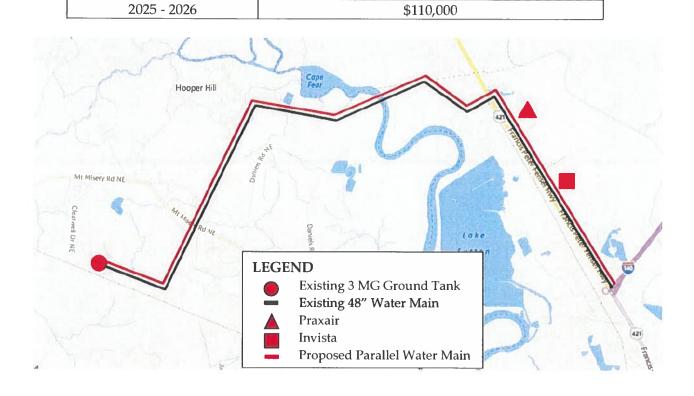
Existing pump station and piping infrastructure would be put at risk for damage due to system surges and could potentially create failures in the pipeline.

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	2		
DURATION (MONTHS)	12		
REQUIRED COMPLETION	2044		
TOTAL ESTIMATED COST	\$1,300,000		
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE		
2043 - 2044	\$1,300,000		



PROJECT TITLE	Ę	5 ROW Acquisitions	KB 9
CATEGORY:	Capacity		
Summary:			
• Right-of-V	Nay acquisition	ons along the existing 48" Raw V	Vater Main from the
3 MGD gr	ound tank to	the US421 service area.	
Justification:			
 Required 	to install the	proposed 48" parallel raw water	main
Consequence of N	No Action:		
• Future su	pply to the U	S421 service area will be limited	to the capacity of
the existir	ng 48" main.		• •
Criticality:			
		V	
1	THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY N	2	3
DURATION (MC	NTHS)	36	
REQUIRED COM	1PLETION	2026	
TOTAL ESTIMA	FED COST	\$310,000	
FISCAL YI	EAR	ANTICIPATED FISCAL YEA	R EXPENDITURE
2023 - 20	24	\$100,000	
2024 - 20	25	\$100,000	



PROJECT TITLE	48-Inch PCCP Inspection and Pig- Ground Tank to US-421	KB 10
CATEGORY:	Renewal/Rehabilitation, Efficiency	

Summary:

- Pig 48" pipeline from 3 MG ground tank to CFPUA's Water Treatment
 Plant including installation of pig launcher/retrieval system. Repair and/or
 replace air release valves and blow-offs.
- Inspection to existing 48-inch PCCP pipe from the existing 3 MG ground tank to US-421.

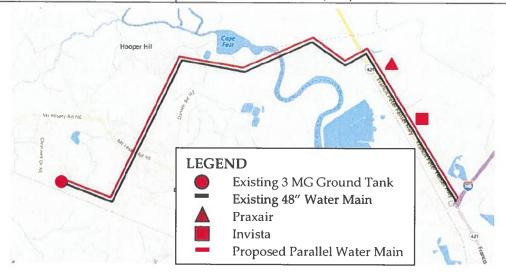
Justification:

- Pipe and appurtenances require routine inspection, maintenance, and repairs.
- Recent evaluation indicated build -up of sediment in the 48" line. Pigging will maintain a clean pipeline free of sediment, silt, and debris.
- Improves efficiency of pumps by reducing frictional characteristics of the pipeline

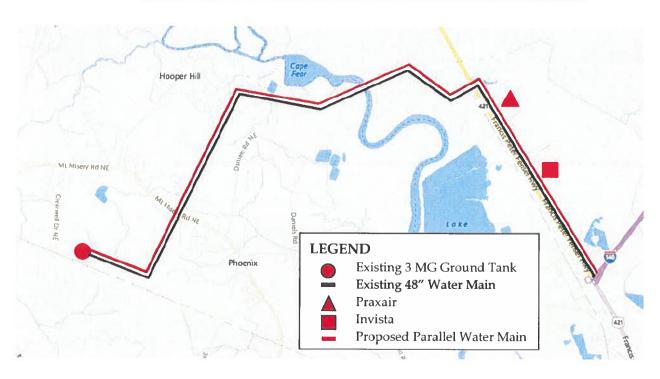
Consequence of No Action:

- Current loss of capacity and/or clogging due to sediment buildup.
- Loss of efficiency and higher electrical costs

V	
1	2
DURATION (MONTHS)	15
REQUIRED COMPLETION	2028
TOTAL ESTIMATED COST	\$2,810,000
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2026 - 2027	\$2,600,000
2027 - 2028	\$210,000



PROJECT TITLE	48-Inch PCCP Repairs KB 11			
CATEGORY: Re	CATEGORY: Renewal/Rehabilitation/Maintenance			
		water main based on the 3 MG ground tank	_	n KB 11 – 48-Inch
Justification: • Pipe requir Consequence of No.		naintenance, inspection	n, and repairs	
Increased r Criticality:	isk for pipel	ine break.		
1		2		3
DURATION (MON	JTHS)		12	CHEROLOGICAL AND
REQUIRED COME			2027	
TOTAL ESTIMATI	ED COST		\$300,000	
FISCAL YEA	AR	ANTICIPATED FIS	CAL YEAR E	XPENDITURE
2026 - 202	7		\$300,000	



PROJECT TITLE	1.3 MW Solar Power Installation	KB 12
CATEGORY:	Efficiency/Redundancy	

Summary:

• Installation of solar panels to provide an additional power source at the pump station

Justification:

• Improves reliability and efficiency of the station by providing a redundant power source

Consequence of No Action:

• Increased risk for power failure during emergency scenarios

<u> </u>	
1 20 20 17	2
DURATION (MONTHS)	12
REQUIRED COMPLETION	2031
TOTAL ESTIMATED COST	\$2,500,000
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2030-2031	\$2,500,000



Kings Bluff Raw Water Facilities Capital Improvements Cost Sharing Projects FY 2024-2049

PROJECT TITLE	New 5th Pump at King's Bluff Raw Water Pump Station	CS 3
CATEGORY:	Capacity	

Summary:

 Provide a fifth raw water pump at King's Bluff Pumping Station to meet projected demands. (See #2 on legend in graphic below) Projected demands will exceed station firm capacity by 2062

Justification:

 Decrease load and run times on existing pumps to extend life and improve reliability.

Consequence of No Action:

• The projected demands at the station will exceed the firm capacity and the station will not be able to serve the project customer demand.

1	2
DURATION (MONTHS)	24
REQUIRED COMPLETION	2047
TOTAL ESTIMATED COST	\$9,400,000
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2044 - 2045	\$2,000,000
2045 - 2046	\$5,100,000
2046 - 2047	\$2,300,000



PROJECT TITLE	20 MG Ground Tank	CS 4
CATEGORY:	Capacity/Efficiency	

Summary:

 Design & construction of a new 20 MG ground tank in close proximity to the existing 3 MG ground tank with sufficient acreage to construct a future 20 MG ground tank.

Justification:

- Increase in available system storage.
- Provide a more consistent supply for safe and efficient operation of the adjacent interim booster pump station.

Consequence of No Action:

- Minimal system storage as system demands continue to increase
- Increased cycling of pumps at the intermediate booster pump station.

Criticality:	_
1	2
DURATION (MONTHS)	24
REQUIRED COMPLETION	2038
TOTAL ESTIMATED COST	\$ 23,700,000
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2036 - 2037	\$5,500,000
2037 - 2038	\$18,200,000



PROJECT TITLE	7-Mile Parallel Raw Water Main from 3 MG Ground Tank to Pender Vault	CS 5
CATEGORY:	Capacity	

Summary:

• Design and construction of approximately 7-miles of 48-inch raw water main from 3 MG ground tank to Pender County vault. Pipe would parallel the existing 48-inch raw water main in this area.

Justification:

- Provides additional system capacity.
- Reduces reliance on intermediate booster pump station.
- Improves reliability with a parallel main to serve major customers.

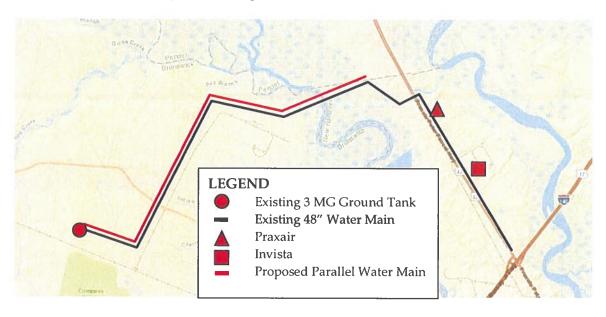
Consequence of No Action:

- The system may not have the capability to meet long-term customer demands.
- The existing 48-inch main is a single point of failure from the 3 MGD ground tank to the Pender County vault.

Criticality:

1	2	3
DURATION (MONTHS)		24
REQUIRED COMPLETION	2	026
TOTAL ESTIMATED COST	\$35,6	600,000*
FISCAL YEAR	ANTICIPATED FISCA	L YEAR EXPENDITURE
2024 - 2025	\$15,0	000,000
2025 - 2026	\$20,6	600,000

*Note: Subject to grant funding.



PROJECT	3-Mile Parallel Raw Water Main from 3 MG	CS 6
TITLE	Pender Vault to CFPUA Vault	Coo
CATEGORY:	Capacity	

Summary:

 Design and construction of approximately 3-miles of 48-inch raw water main from the Pender County vault to the CFPUA vault. Pipe would parallel the existing 48-inch raw water main in this area.

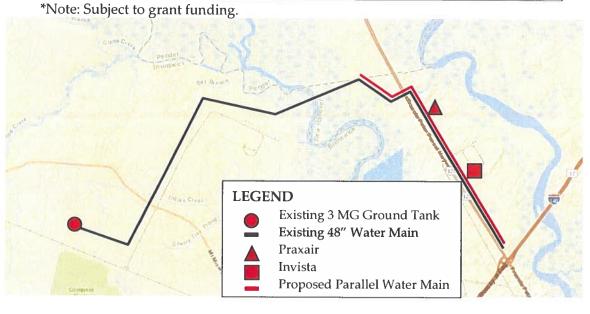
Justification:

- Provides additional system capacity.
- Reduces reliance on intermediate booster pump station.
- Improves reliability with a parallel main to serve major customers.

Consequence of No Action:

- The system may not have the capability to meet long-term customer demands.
- The existing 48-inch main is a single point of failure from the 3 MGD ground tank to the US 421 service area.

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1 10 00000	2
DURATION (MONTHS)	24
REQUIRED COMPLETION	2027
TOTAL ESTIMATED COST	\$25,250,000*
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2025 - 2026	\$6,500,000
2026 - 2027	\$18,750,000



PROJECT TITLE	100 MGD Reservoir	CS 7
CATEGORY:	Efficiency	

Summary:

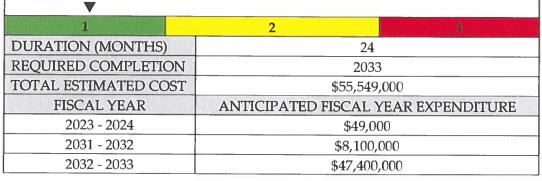
• Design & construction of a new 100 MG reservoir. Optimal location and operation of the reservoir to be determined by future engineering study.

Justification:

- Increase in available system storage.
- Allows for temporary redundancy of supply in the case of an emergency (line break, power outage, etc.).

Consequence of No Action:

- Minimal system storage as system demands continue to increase.
- Loss of regular supply under emergency conditions.





Finance Committee

KING'S BLUFF RAW WATER FACILITIES

Flump Flum	2027 2028	2029	2030 2	2031 20	2032 2033	33 2034	7 FY	/ FY 5 2036	FY 6 2037	FY 2038	FY 2039	FY 2040	FY 2041	FY 2042	F.Y	FY 2044	FY 2045	FY 2046	FY 2047	FY 2048	FY 2049	Totals
Rebuild High Service Pump Motor	\$3.85	\$1.30																				\$5.15
New Cenerators Pig 48" Water Main (KBPS Pig 48" Water Main (KBPS) \$2.40 Pig 54" Water Main \$2.40 Building Replacement \$2.40 Replace Raw Water Pumps \$0.10 \$0.11 1, 4, 5 New Surge Tank at KBPS \$0.10 \$0.11 A8-Inch PCCP Inspection \$0.20 \$0.30 and Pig - Ground Tank to \$2.60 \$2.60 48-Inch PCCP Repairs \$0.30 \$0.30 1.3 MW Solar Power Installation \$2.60 A8-Inch PCCP Repairs \$2.60 \$2.60 A8-Inch PCCP Repairs \$0.30 \$2.60 A8-Inch PCCP Repairs \$0.30 \$0.30 Installation \$2.60 \$0.30 Intermediate Booster Pump Station's Poster Pump Station's Pump at King's Bluff \$2.00 \$20.60 Water Main \$4.50 \$18.75 \$18.75 Water Main \$6.50 \$18.75								\$0.50														\$0.50
Pig 48" Water Main (KBPS 10.3 MG Tank) Pig 54" Water Main \$2.40 Pig 54" Water Main \$2.40 Walkway and Air Backwash \$2.40 Building Replacement \$0.10 Replace Raw Water Pumps \$0.10 1, 4, 5 \$0.10 New Surge Tank at KBPS \$0.10 5 ROW Acquisitions \$0.10 48-Inch PCCP Inspection \$2.60 US 421 \$2.60 48-Inch PCCP Repairs \$0.30 1.3 MW Solar Power \$2.60 Installation \$3.60 Station Shelter* \$6.50 Station Shelter* \$1.00 Shelter* \$1.00 Substitute Wall \$1.00 Substitute Wall \$1.00 Substitute Wall \$1.00 Substitute Wall \$1.00 Water Main							\$2.20	10 \$19.30	0													\$21.50
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20 MG Ground Tank 7-Mile 48" Parallel Raw Water Main 3-Mile 48" Parallel Raw 8-50																	\$2.00	\$5.10	\$2.30			\$9.40
7-Mile 48" Parallel Raw \$15.00 \$20.60 3-Mile 48" Parallel Raw \$6.50									\$5.50	\$18.20												\$23.70
3-Mile 48" Parallel Raw \$6.50						ļ																\$35.60
water Main	85																					\$25.25
CS 7 100 MGD Reservoir \$0.05				89 99	\$8.10 \$47.40	40																\$55.50
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* Projects are no longer required due to expedited schedules of CS5 & CS6

Bladen Bluffs Regional Surface Water Treatment Facility Capital Improvements Projects FY 2024-2049

PROJECT TITLE	New High Service Pump Station	BB 1
CATEGORY:	Capacity	

Summary:

Construct a new high service pumping station to increase capacity.

Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.

Justification:

- Required to serve new customers.
- Construction of new high service pump station would only be required when additional customers are identified to be served by the Bladen Bluffs Regional Surface Water Treatment Facility.

Consequence of No Action:

 The system will not have the required capacity to meet new customer demands.

	2	3
DURATION (MONTHS)	24	1
REQUIRED COMPLETION	202	29
TOTAL ESTIMATED COST	\$5,740	0,000
FISCAL YEAR	ANTICIPATED FISCAL	YEAR EXPENDITURE
2027-2028	\$790,	,000
2028-2029	\$4,950	0,000



PROJECT TITLE	Construct New 1 MG Capacity Clearwell	BB 2
CATEGORY:	Capacity	

Summary:

 Construct clearwell to meet future customer finished water storage capacity.

Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.

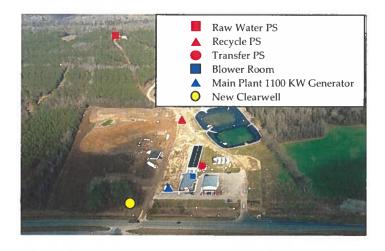
Justification:

- Required to serve new customers.
- Clearwell would only be required when additional customers are identified to be served by the Bladen Bluffs Regional Surface Water Treatment Facility.

Consequence of No Action:

• The system will not have the required capacity to meet new customer demands.

▼	
1	2
DURATION (MONTHS)	24
REQUIRED COMPLETION	2029
TOTAL ESTIMATED COST	\$4,090,000
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2027-2028	\$790,000
2028-2029	\$3,300,000



PROJECT TITLE	Replace Three (3) Pumps at the Raw Water Pump Station	BB 3
CATEGORY:	Renewal/Rehabilitation	

Summary:

• Routine replacement of three (3) aging pumps at Raw Water Pumping Station.

Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.

Justification:

 Pumps will be approximately 20 years old by 2032 and approaching end of useful service life.

Consequence of No Action:

• The likelihood of failure of the pumps increases due to age and wear of the existing pump.

V	
	2
DURATION (MONTHS)	12
REQUIRED COMPLETION	2032
TOTAL ESTIMATED COST	\$480,000
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2031-2032	\$480,000



PROJECT TITLE	Replace Blower in the Blower Building	BB 4
CATEGORY:	Renewal/Rehabilitation	

Summary:

Routine replacement of aging blower in blower building.

Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.

Justification:

 Blower will be approximately 25 years old by 2032 and approaching end of useful service life.

Consequence of No Action:

• The likelihood of failure of the blower increases due to age and wear of the existing blower.

1	2
DURATION (MONTHS)	12
REQUIRED COMPLETION	2032
TOTAL ESTIMATED COST	\$190,000
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2031-2032	\$190,000



PROJECT TITLE	Replace Three (3) Pumps at the Recycle Pump Station	BB 5
CATEGORY:	Renewal/Rehabilitation	

Summary:

• Routine replacement of three (3) aging pumps at the Recycle Pumping Station.

Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.

Justification:

• Pumps will be approximately 20 years old by 2032 and approaching end of useful service life.

Consequence of No Action:

 The likelihood of failure of the pumps increases due to age and wear of the existing pump.

	2	
DURATION (MONTHS)	12	
REQUIRED COMPLETION	2035	
TOTAL ESTIMATED COST	\$330,000	
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE	
2034-2035	\$330,000	



PROJECT TITLE	Replace Three (3) Pumps at the Transfer Pump Station	BB 6
CATEGORY: Renewal/Rehabilitation		

Summary:

• Routine replacement of three (3) aging pumps at the Transfer Pumping Station.

Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.

Justification:

• Pumps will be approximately 20 years old by 2032 and approaching end of useful service life.

Consequence of No Action:

• The likelihood of failure of the pumps increases due to age and wear of the existing pump.

1	2
DURATION (MONTHS)	12
REQUIRED COMPLETION	2035
TOTAL ESTIMATED COST	\$550,000
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2034-2035	\$550,000



PROJECT TITLE	Replace Two (2) Generators at the Site	BB 7
CATEGORY:	Renewal/Rehabilitation	

Summary:

Routine replacement of two (2) aging on-site generators.

Note: Currently Smithfield Farmland Company (SFC) provides all operation and maintenance of the Bladen Bluffs Regional Surface Water Treatment Facility. The CIP project described on this sheet would only be required if the LCFWSA assumed full operation of the facility from SFC. Until such time all capital improvements and/or maintenance requirements are solely the responsibility of SFC.

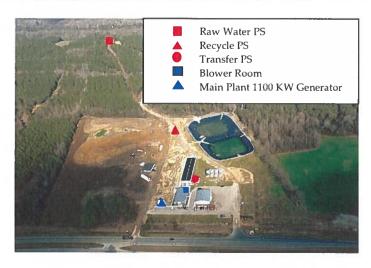
Justification:

• Facility currently has two (2) generators on-site. Generators will be approximately 25 years old by 2037 and approaching end of service life.

Consequence of No Action:

- The current generators are undersized to accommodate long term demands.
- The existing generators are anticipated to become cost prohibitive to maintain.

1	2
DURATION (MONTHS)	24
REQUIRED COMPLETION	2037
TOTAL ESTIMATED COST	\$1,680,000
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2035-2036	\$460,000
2036-2037	\$1,220,000



Annual Fiscal Year Budget Breakdown (In Millions of Dollars)

Totals	\$5.74	\$4.09	\$0.48	\$0.19	\$0.33	\$0.55	\$1.68	\$13.06
FY 2049				1				
FY 2048								
FY 2047								
FY 2046								
FY 2045								
FY 2044								
FY 2043								
FY 2042								
FY 2041								
FY 2040								
FY 2039								
FY 2038							:	
FY 2037							\$1.22	\$1.22
FY 2036							\$0.46	\$0,46
FY 2035					\$0.33	\$0.55		\$0.88
FY 2034								
F7 2033								
FY 2032			\$0.48	\$0.19				\$0.67
FY 2031								
FY 2030								
FY 2029	\$4.95	\$3.30						\$8.25
FY 2028	\$0.79	\$0.79						\$1.58
FY 2027								
FY 2026								
FY 2025								
FY 2024								
Description	New High Service Pump Station	Construct New 1 MG Capacity Clearwell	Replace (3) Pumps at Raw Water Pump Station	Replace Blower in Blower Building	Replace (3) Pumps at the Recycle Pump Station	Replace (3) Pumps at the Transfer Pump Station	Replace (2) Generators at the Site	Fotal Piscal Year Expenditure
Project No.	BB 1	BB 2	BB 3	BB 4	BBS	BB 6	BB 7	Cotal Fiscal

APPENDIX A – TOTAL ANNUAL FISCAL YEAR BUDGET

Item											
THE RESIDENCE OF THE PROPERTY	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Totals
		TANK PROPERTY.		OPERATION P	OPERATION PROJECTS BUDGET	14					
Surveying											\$0
ROW Maintenance	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$650,000
ROW Clearing	\$225,000										\$225,000
SCADA Improvements		\$125,000									\$125,000
Anti-Vortexing Improvements	\$50,000	\$50,000									\$100,000
Meter and Valve Upgrades/Replacements						\$125,000					\$125,000
VFD Replacements	\$250,000										\$250,000
Argo ATV											\$0
RR Trans	\$350,000	\$350,000									\$700,000
Miscellaneous	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$300,000
Total Operations Annual Fiscal Year Expenditure	re \$970,000	\$620,000	\$95,000	\$95,000	\$95,000	\$220,000	\$95,000	\$95,000	\$95,000	\$95,000	\$2,475,000
				CAPITAL PRC	CAPITAL PROJECTS BUDGET	MARKET COLUMNS					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
KB1 - New 4th Pump at King's Bluff (KBPS)	37				\$3,850,000	\$1,300,000					\$5,150,000
KB6 - Walkway and Air Backwash Building Replacement		\$2,400,000									\$2,400,000
KB7 - Replace Raw Water Pumps 1, 4, 5							\$4,600,000				\$4,600,000
KB9 - ROW Acquisitions	\$100,000	\$100,000	\$110,000								\$310,000
KB10 - 48-Inch PCCP Inspection and Pig - Ground Tank to US421				\$2,600,000	\$210,000						\$2,810,000
KB11 - 48-Inch PCCP Repairs				\$300,000							\$300,000
KB12 - 1.3 MW Solar Power Installation								\$2,500,000			\$2,500,000
CSS - 7-Mile 48" Parallel Raw Water Main		\$15,000,000	\$20,600,000								\$35,600,000
CS6 - 3-Mile 48" Parallel Raw Water Main			\$6,500,000	\$18,750,000							\$25,250,000
CS7 - 100 MGD Reservoir	\$49,000								\$8,100,000	\$47,400,000	ш
Total Capital Annual Fiscal Year Expenditure	\$149,000	\$17,500,000	\$27,210,000	\$21,650,000	\$4,060,000	\$1,300,000	\$4,600,000	\$2,500,000	\$8,100,000	\$47,400,000	\$134,469,000
Total Annual Fiscal Year Expenditure	\$1,119,000	\$18,120,000	\$27,305,000	\$21,745,000	\$4,155,000	\$1,520,000	\$4,695,000	\$2,595,000	\$8,195,000	\$47,495,000	\$136,944,000

AGENDA

Lower Cape Fear Water & Sewer Authority 1107 New Pointe Boulevard, Suite # 17, Leland, North Carolina 9:00 a.m. – Regular Monthly Board Meeting April 8, 2024

MEETING CALL TO ORDER: Chairman Knight

INVOCATION

PLEDGE OF ALLEGIANCE

APPROVAL OF CONSENT AGENDA

- C1 Minutes of March 11, 2024, Regular Board Meeting
- C2 Minutes of March 11, 2024, Finance Committee Meeting
- C3 Kings Bluff Monthly Operations and Maintenance Report
- C4 Resolution Adopting the Lower Cape Fear Water & Sewer Authority's Local Water Supply Plan for Kings Bluff Raw Water Pump Station, PWSID 50-09-013, for calendar year 2023.
- C5 Resolution Adopting the Lower Cape Fear Water & Sewer Authority's Local Water Supply Plan for Bladen Bluff's Regional Surface Water System, PWSID 50-09-013, for calendar year 2023.
- C6 Line-Item Adjustment for February 29, 2029

OLD BUSINESS

OB1 – Resolution of Lower Cape Fear Water and Sewer Authority Board of Directors Awarding Contract for Partial Replacement of Existing Roof at the Kings Bluff Pump Station

NEW BUSINESS

NB1 - Resolution Recognizing National Drinking Water Week

ENGINEER'S COMMENTS

ATTORNEY COMMENTS

EXECUTIVE DIRECTOR REPORT

- **EDR1** Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date Ending March 31, 2024
- EDR2 Operating Budget Status, Ending February 29, 2024
- **EDR3** Summary of Activities

DIRECTOR'S COMMENTS AND/OR FUTURE AGENDA ITEMS

PUBLIC COMMENT

CLOSED SESSION

CS1 – Closed Session in accordance with N.C.G.S. §143-318.11(a)(3) and (6) to preserve Authority's Attorney-Client Privilege and for Personnel Matters respectively.

ADJOURNMENT

The next board meeting of the Lower Cape Fear Water & Sewer Authority is scheduled for Monday, May 13th at 9:00 a.m. in the Authority's office located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina.

Consent Agenda (CA)

Lower Cape Fear Water & Sewer Authority

AGENDA ITEM

To:

CHAIRMAN KNIGHT AND BOARD MEMBERS

From:

TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date:

April 8, 2024

Re:

Consent Agenda

Reviewed and approved as to form: MATTHEW A. NICHOLS, AUTHORITY ATTORNEY

Please find enclosed the items of a routine nature for consideration and approval by the Board of Directors with one motion. However, that does not preclude a board member from selecting an item to be voted on individually, if so desired.

- C1- Minutes of March 11, 2024, Regular Board Meeting
- C2- Minutes of March 11, 2024, Finance Committee Meeting
- C3- Kings Bluff Monthly Operations and Maintenance Report
- **C4** Resolution Adopting the Lower Cape Fear Water & Sewer Authority's Local Water Supply Plan for Kings Bluff Raw Water Pump Station, PWSID 50-09-013, for calendar year 2023.
- **C5** Resolution Adopting the Lower Cape Fear Water & Sewer Authority's Local Water Supply Plan for Bladen Bluff's Regional Surface Water System, PWSID 50-09-013, for calendar year 2023.
- C6 Line-Item Adjustment for February 29, 2029

Action Requested: Motion to approve/disapprove Consent Agenda.

Lower Cape Fear Water & Sewer Authority Regular Board Meeting Minutes March 11, 2024

Chairman Knight called to order the Authority meeting scheduled on March 11th, 2024, at 9:00 a.m. and welcomed everyone present. The meeting was held at the Authority's office located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina. Director DeVane gave the invocation.

Roll Call by Chairman Knight:

Present: Norwood Blanchard, Patrick DeVane, Wayne Edge, Harry Knight, Al Leonard, Scott Phillips, Charlie

Rivenbark, Chris Smith, Phil Tripp, Frank Williams, and Rob Zapple

Present by Virtual Attendance: Jackie Newton

Absent: Bill Saffo and Bill Sue

Staff: Tim H. Holloman, Executive Director; Matthew Nichols, General Counsel; Sam Boswell, COG; Jess Powell P.E., McKim & Creed; and Danielle Hertzog, Financial Administration Assistant

Guests Present: Glenn Walker, Brunswick County Water Resources Manager; Jorgen Holmberg, Computer Warriors; Anthony Colon, Pender County Utilities Director of Utilities; James Proctor, Pender County Utilities Deputy Director of Utilities; and Krysden Burden, Brunswick County Public Utilities

Guests Virtual Attendance: Tom Hendrick, Pender County Utilities Water Treatment Plant Superintendent; Benjamin Kearns, Cape Fear Public Utility Authority Water Resources Manager Water Treatment; Craig Wilson, Cape Fear Public Utility Authority Engineering Manager; and Ken Waldroup, Cape Fear Public Utility Authority Executive Director

PLEDGE OF ALLEGIANCE: Chairman Knight led the Pledge of Allegiance.

APPROVAL OF CONSENT AGENDA

- C1 Minutes of February 12, 2024, Regular Board Meeting
- C2 Minutes of February 12, 2024, Finance Committee Meeting
- C3 Minutes of February 12, 2024, Personnel Committee Meeting
- C4 Kings Bluff Monthly Operations and Maintenance Report
- C5 Bladen Bluffs Monthly Operations and Maintenance Reports

Motion: Director Rivenbark **MOVED**; seconded by Director Zapple, approval of the Consent Agenda Items C1-C5. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

OLD BUSINESS

OB1- Resolution of Lower Cape Fear Water and Sewer Authority Board of Directors Rejecting Sole Bid Submitted for Partial Replacement of Existing Roof at the Kings Bluff Pump Station

Executive Director Holloman advised the bid came in higher than anticipated. Mr. Holloman recommended rejecting the bid and authorizing LCFWASA and McKim & Creed to solicit informal bids from vendors.

Motion: Director Williams **MOVED**; seconded by Director Rivenbark, approval of the Resolution of Lower Cape Fear Water and Sewer Authority Board of Directors Rejecting Sole Bid Submitted for Partial Replacement of Existing Roof at the Kings Bluff Pump Station. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

NEW BUSINESS

NB1- Budget Amendment #2

Executive Director Holloman stated that this is to move funds from Operating Checking to R&R to help us reach our goal of 5 million.

Motion: Director Edge **MOVED**; seconded by Director Rivenbark, to approve Budget Amendment #2. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

NB2- Resolution Awarding Contract for Financial Advisory Services for the Lower Cape Fear Water and Sewer Authority

Executive Director Holloman advised the Finance Committee reviewed and interviewed the submissions from the RFQ for the Financial Advisor. The Finance Committee voted to bring the Resolution Awarding Contract for Financial Advisory Services for the Lower Cape Fear Water and Sewer Authority.

Motion: Director Blanchard **MOVED**; seconded by Director Williams, to approve Resolution Awarding Contract for Financial Advisory Services for the Lower Cape Fear Water and Sewer Authority. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

PRESENTATION: Source Water Protection Regional Plan by Krysden Burden with Brunswick County Public Utilities

The presentation will be attached to the minutes.

ENGINEER'S COMMENTS

Jess Powell wanted to update the board on the Kings Bluff Phase 2 pipeline. Mr. Powell advised that the project was on schedule and would meet all deadlines.

ATTORNEY COMMENTS

No comments

EXECUTIVE DIRECTOR REPORT

EDR1 – Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date Ending February 29, 2024

Executive Director Holloman reported that during February 2024, Brunswick County and Cape Fear Public Utilities Authority were above projections.

DIRECTOR'S COMMENTS AND/OR FUTURE AGENDA ITEMS

No comments

PUBLIC COMMENT

No comments

CLOSED SESSION

Chairman Knight requested a motion to go into a closed session in accordance with NCGS §143-318.11(a)(3) to consult with attorney to preserve the attorney-client privilege:

Motion: Director Leonard **MOVED**; seconded by Director Williams, to go into closed session in accordance with NCGS §143-318.11(a)(3) to consult with attorney to preserve the attorney-client privilege. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

At 9:49 a.m., the board went into closed session. Director Zapple stepped out due to a request by Matthew Nichols, LCFWASA General Counsel. At 10:15a.m., the board returned to open session. Discussion only; no action taken.

ADJOURNMENT

There being no further business, Chairman Knight adjourned the meeting at 10:16 a.m.

Regional Source Water Lower Cape Fear Protection Plan

LCFWASA Board Meeting- March 11, 2024

By: Glenn Walker and Krysden Burden

What is source water protection?



The NC DEQ defines source water as "untreated water from streams, rivers, lakes, or groundwater aquifers that are sources of public drinking water."

Groundwater sources- Castle Hayne and PeeDee aquifers Surface water source- Cape Fear River

Source water protection is the act of protecting drinking water sources from pollution and contamination. Some ways of doing so include the North Carolina Surface Water Protection Program and Wellhead Protection Program. 1. https://www.deg.nc.gov/about/divisions/water-resources/drinking-water/drinking-water-protection-program

History

2014: North Carolina HB 894, "An Act to Improve Source Water Protection Planning"

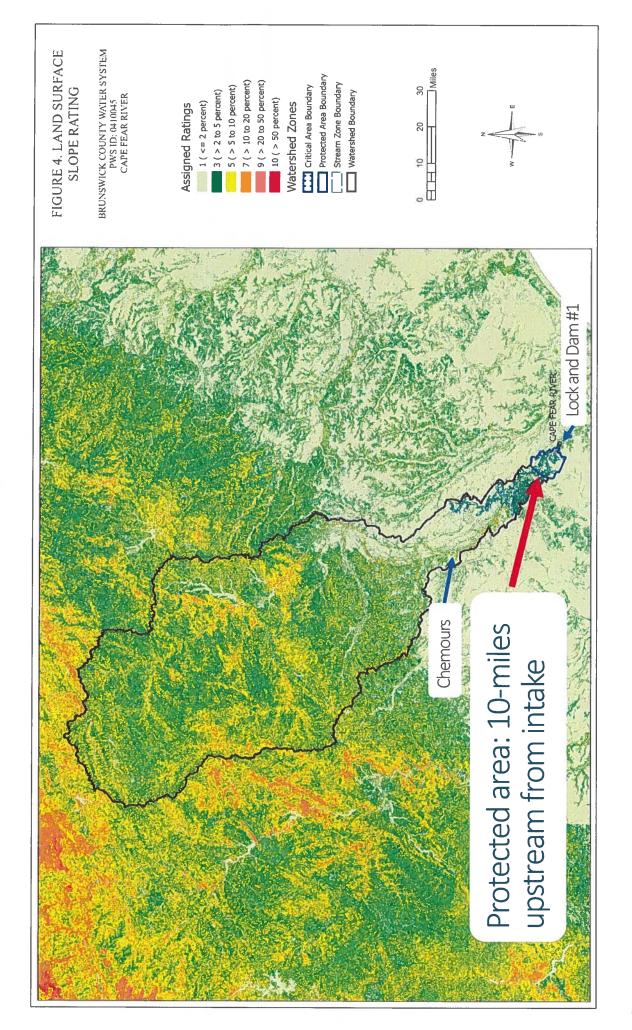
Required public water suppliers to complete a source water protection plan

2018: Federal America's Water Infrastructure Act

Required PWS suppliers to submit a source water risk and resiliency plan

(source water) protection plan to NCDEQ and forms a source water protection 2022: Cape Fear Public Utility Authority (CFPUA) submits a voluntary surface

Brunswick County partners with CFPUA in the fall and takes the lead on developing 2023: NCDEQ approves CFPUA's Source Water Protection Plan in the spring; a regional plan which includes Pender County and LCFWASA



Brunswick County Goals

1. Facilitate source water protection team discussions on regulatory matters that affect the Cape Fear River Basin 2. Oversee algae monitoring program at the raw water intake (Kings Bluff Station)

3. Develop a robust upstream source water protection outreach

This is where we need your help

- For details on CFPUA's goals, please refer to their SWPP located in the "Document Center" at www.cfpua.org
 - Pender County and LCFWASA have the opportunity to develop their own goals and/or adopt CFPUA's and Brunswick County's goals

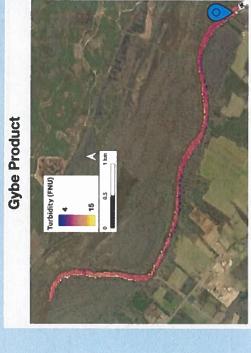
Algae Monitoring

Algae monitoring across the CFR Basin has grown in scope and partners

Initially BCPU was monitoring at the LCFWASA intake above Lock & Dam #1 and sharing data with the intake partners: CFPUA, BCPU, Pender County, and DEQ

Currently USGS, DEQ, TNC, COE, and LCFWASA are all working together to collect and share data





Connections Upstream

Working on securing funding for educational messaging in the 10-mile protected area Creating an informational handout that educates the community on source water protection

See handout to the right

Meeting with Bladen County Soil and Water on 3/12



جر Thoughts on additional contacts/connections?





more carbon and generate carbon offsets while

nflationary growth and is not indicative or a guarantee of any A Potential (profitable?) Land Preservation: carbon stocks). Depending on the registry rules then in harvesting your enrolled lands (while maintaining Y20 Forestry Option Umited narvests or continued market-linked offset earnings 21-4D New sources of revenue for Beginning in the fourth year, your payments are directly offset prices rise, your revenue will grow accordingly. tied to current carbon offset market prices. If carbon Harvest deferral 5 market-linked earnings enhancing its recreational and environmental values. By deferring harvests, you allow your forest to store growing carbon market for timberland owners with LandVield's offset projects provide access to the less than 5,000 forested acres of ownership. 4-PD landowners Landowner revenue over the first three years are set using a fixed offset price. LANDOWNER BENEFITS Harvest deferral & fixed prices

Potential Agencies to Partner With

North Carolina Land Trust Alliance

https://landtrustalliance.org/land-trusts/gaining-ground/north-carolina

The Nature Conservancy

https://www.nature.org/en-us/about-us/where-we-work/united-states/north-carolina/

Unique Places LLC

https://www.landcan.org/local-resources/Unique-Places-LLC/37456/

North Carolina Coastal Land Trust

https://coastallandtrust.org/

Thank you for your time today



















Cape Fear River Assembly







Lower Cape Fear Water & Sewer Authority

Finance Committee Meeting Minutes

March 11, 2024

Chairman Knight called to order the Finance Committee Meeting on March 11, 2024, at 8:30 a.m. The meeting was held at the Authority's office located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina.

Present:

Norwood Blanchard, Patrick DeVane, Harry Knight, Al Leonard, Charlie Rivenbark, Chris

Smith, and Phil Tripp

Absent:

None

Present by Virtual Attendance: None

Staff: Tim H. Holloman, Executive Director; Matthew Nichols, General Counsel; Sam Boswell, COG; and Danielle Hertzog, Financial Administration Assistant

Guests Present: Director Wayne Edge; Jorgen Holmberg, Computer Warriors; Glenn Walker, Brunswick County Water Resources Manager; and Krysden Burden, Brunswick County Public Utilities

Guests Virtual Attendance: None

PowerPoint for Annual Budget Fiscal Year 2024-2025

Executive Director Holloman reviewed essential cost items for the FY 2024-2025 draft budget. Our customers have projected to use 10,207,430 gallons of water for an estimated revenue of 4.4 million. Health insurance will be increasing by 5% to \$2010. The property and liability insurance expenses will be in on April 1. The state retirement will increase from 12.85% to 13.6%. LCFWASA will purchase Anti-Vortex Equipment for the cost of \$50,000 for the Kings Bluff Plant. Additional engineering and permitting will increase engineering costs by \$5,300. We will have Pay-Go for the Air Backwash and Walkway for \$1,550,000. Rates will increase by 0.04 to 0.44 from the current .40, as recommended by the rate forecast needed for the Master Plan. The fourth pump addition will need to be pushed back two fiscal years until funds have increased. The FY 2024-2025 budget is a 6% increase from the FY2023-2024 budget due primarily to operating capital expenses, building the R & R Fund, and Bladen Bluffs' increase in operating cost.

Resolution Awarding Contract for Financial Advisory Services for the Lower Cape Fear Water and Sewer Authority

Executive Director Holloman recommended the Finance Committee to vote to award First Tryon the Financial Advisory Agreement.

Motion: Director DeVane **MOVED**; seconded by Director Rivenbark, to recommend to the entire board and to approve the Resolution Awarding Contract for Financial Advisory Services for the Lower Cape Fear Water and Sewer Authority. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

Respectfully Submitted,

ADJOURNMENT

There being no further business, Chairman Knight adjourned the meeting at 8:43 a.m.

The next Finance Committee Meeting of the Lower Cape Fear Water & Sewer Authority is scheduled for Monday, May 13, 2024, at 8:30 a.m. in the Authority's office located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina.

COUNTY OF BRUNSWICK
PUBLIC UTILITIES DEPARTMENT
Kings Bluff Pump Station



246 Private Road Riegelwood, NC 28456 (910) 655-4799 Office (910) 655-4798 FAX

TO: Tim Holloman

FROM: Greg Lazorchak

DATE: 4/1/2024

SUBJECT: Monthly maintenance report for March 2024

Mr. Holloman,

The Maintenance and Operations of the king's bluff facility for the month of March were performed as prescribed in the station SOP'S and other items are as follows.

The diesel drive booster pumps along with the standby SCADA generator located at the raw tank and the SCADA generator located at INVISTA / CFPUA vaults off HWY 421 were run and tested weekly and verified standby ready.

KB personnel completed all locates issued by the Boss 811 system.

KB personnel pumped out vaults at The Bluffs and Kings Bluff.

KB personnel painted plates in basement on pump 4 & 5.

KB personnel power washed basement of pump room 4 & 5 & diesel storage tank #2.

KB personnel shoveled and cut in overgrowth on walkway at Raw Tank.

KB personnel cleaned ARV on pump 4 of tuberculation and buildup.

KB personnel cleaned around Brunswick County vault.

Contractors:

Pursuit Cleaning came to Kings Bluff offices for weekly cleaning. LJ's Cut patch behind gen. building Ken from Underwood pumps came to look at check valve on pump 5. Newcomb HVAC changed filters on unit outside.

Thank you,

Gregory Lazorchak

Resolution Adopting the Lower Cape Fear Water & Sewer Authority's Local Water Supply Plan for Kings Bluff Raw Water Pump Station, PWSID 50-09-013, for Calendar Year 2023

Whereas, North Carolina General Statute 143-335 (l) requires that each system that provides public water services or plans to provide such services shall, either individually or together with other systems, prepare and submit a Local Water Supply Plan at least once each five years; and

Whereas, as required by the statute and in the interests of sound local planning, the Lower Cape Fear Water & Sewer Authority's Local Water Supply Plan for calendar year 2023 for Kings Bluff Raw Water Pump Station, has been developed and submitted to the Board of Directors for approval; and

Whereas, the Board of Directors for the Lower Cape Fear Water & Sewer Authority (Authority) find that the Local Water Supply Plan is in accordance with the provisions of North Carolina General Statute 143-355 (l) and that it will provide appropriate guidance for the future management of water supplies for the Authority, as well as useful information to the Department of Environmental Quality for the development of a state water supply plan as required by statute.

Now, Therefore, Be It Resolved by the Chairman and Board of Directors of the Lower Cape Fear Water & Sewer Authority that the Local Water Supply Plan for calendar year 2023 for Kings Bluff Raw Water Pump Station is approved for submittal to the Department of Environmental Quality, Division of Water Resources (Department); and

Be It Further Resolved that the Board of Directors of the Authority intends that this plan shall be revised to reflect changes in relevant data and projections at least once every five years or as otherwise requested by the Department, in accordance with the statute and sound planning practice.

This Resolution was adopted on the 8th day of April 2024.

DWR :: Local Water Supply Planning

LCFWSA - Kings Bluff

2023 ~

The Division of Water Resources (DWR) provides the data contained within this Local Water Supply Plan (LWSP) as a courtesy and service to our customers. DWR staff does not field verify data. Neither DWR, nor any other party involved in the preparation of this LWSP attests that the data is completely free of errors and omissions. Furthermore, data users are cautioned that LWSPs labeled **PROVISIONAL** have yet to be reviewed by DWR staff. Subsequent review may result in significant revision. Questions regarding the accuracy or limitations of usage of this data should be directed to the water system and/or DWR.

1. System Information

Contact Information

Water System Name: Mailing Address: LCFWSA - Kings Bluff

1107 New Pointe Blvd., Suite # 17

Leland, NC 28451

PWSID:

Ownership:

50-09-013

Authority

Provisional

Contact Person: Phone:

Tim H Holloman 910-383-1919 Title: Cell/Mobile: Executive Director 919-333-5933

Distribution System

Line Type

Size Range (Inches)

Estimated % of lines

Other Other 48

80.00 %

5-

54

20.00 %

What are the estimated total miles of distribution system lines? 38 Miles

How many feet of distribution lines were replaced during 2023? 0 Feet

How many feet of new water mains were added during 2023? 0 Feet

How many meters were replaced in 2023? 0

How old are the oldest meters in this system? 0 Year(s)

How many meters for outdoor water use, such as irrigation, are not billed for sewer services? 0

What is this system's finished water storage capacity? 0.0000 Million Gallons

Has water pressure been inadequate in any part of the system since last update? Line breaks that were repaired quickly should not be included. No

Programs

Does this system have a program to work or flush hydrants? No

Does this system have a valve exercise program? Yes, Semi-Annually

Does this system have a cross-connection program? No

Does this system have a program to replace meters? No

Does this system have a plumbing retrofit program? No

Does this system have an active water conservation public education program? Yes

Does this system have a leak detection program? Yes

Periodic Inspection of the entire pipeline checking for leaks.

Water Conservation

What type of rate structure is used? Flat/Fixed

How much reclaimed water does this system use? 0.0000 MGD For how many connections? 0

Does this system have an interconnection with another system capable of providing water in an emergency? No

3/25/24, 10:46 AM

DWR :: Local Water Supply Planning

2. Water Use Information

Service Area

Sub-Basin(s) % of Service Population County(s) % of Service Population

Cape Fear River (02-3) 100 % Brunswick 80 %

New Hanover 19 %

Pender 1 %

What was the year-round population served in 2023? 550,000

What was the seasonal population and months served in 2023? (if applicable) 440,000 (May Jun Jul Aug Sep)

Has this system acquired another system since last report? No

Water Use by Type

Type of Use	Metered Connections	Metered Average Use (MGD)	Non-Metered Connections	Non-Metered Estimated Use (MGD)
Residential	0	0.0000	0	0.0000
Commercial	0	0.0000	0	0.0000
Industrial	0	1.0820	0	0.0000
Institutional	0	0.0000	0	0.0000

How much water was used for system processes (backwash, line cleaning, flushing, etc.)? 0.0000 MGD

Water Sales

Purchaser PWSID		Average Daily	Days		Contract		Required to comply with	Pipe	Use
Furdiaser	FWSID	Sold (MGD)	Used	MGD	Expiration	Recurring	water use restrictions?	Size(s) (Inches)	Туре
Brunswick County	04-10- 045	17.4000	365	24.0000	2022	Yes	Yes	48,54	Regular
Cape Fear Public Utility Authority	04-65- 010	18.0000	365	38.0000	2022	Yes	Yes	48,54	Regular
Pender County	70-71- 011	1.6000	365	6.0000	2029	Yes	Yes	48,54	Regular

3. Water Supply Sources

Monthly Withdrawals & Purchases

	Average Daily Use (MGD)	Max Day Use (MGD)		Average Daily Use (MGD)	Max Day Use (MGD)		Average Daily Use (MGD)	Max Day Use (MGD)
Jan	30.0500	34.8300	May	30.4800	42.0800	Sep	28.6600	36.2700
Feb	28.9400	30.0800	Jun	28.4100	35.8600	Oct	26.1800	35.1900
Mar	28.8400	37.7500	Jul	29.0700	39.1300	Nov	21.1600	27.8600
Apr	31.6600	43.5700	Aug	30.4000	38.0300	Dec	23.5500	32.4700



Surface Water Sources

Stream	Reservoir	Average Da	aily Withdrawal	Maximum Day		ble Raw Supply	Usable On-Stream Raw Water Supply
		MGD	Days Used	Withdrawal (MGD)	MGD	* Qualifier	Storage (MG)
Cape Fear River	Lock and Dam No. 1	39.9800	365	43.5700	96.0000	F	0.0000

^{*} Qualifier: C=Contract Amount, SY20=20-year Safe Yield, SY50=50-year Safe Yield, F=20% of 7Q10 or other instream flow requirement, CUA=Capacity Use Area Permit

Surface Water Sources (continued)

Cape Fear River	Lock and Dam No. 1	5,255	Yes	Cape Fear River (02-3)	Bladen		Regular
Stream	Reservoir	Drainage Area (sq mi)	Metered?	Sub-Basin	County	Year Offline	Use Type

DWR :: Local Water Supply Planning

What is this system's off-stream raw water supply storage capacity? 3 Million gallons

Are surface water sources monitored? Yes, Daily

Are you required to maintain minimum flows downstream of its intake or dam? No

Does this system anticipate transferring surface water between river basins? No

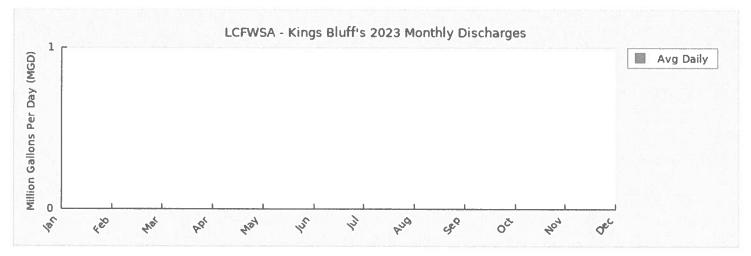
Water Purchases From Other Systems

Cape Fear Public Utility Authority	04-65- 015	0.0000	0	0.0000	2023	Yes	No	24	Emergency
Ochei	1 77010	Purchased (MGD)	Used	MGD Expiration Recurring	Recurring	water use restrictions?	(Inches)	Туре	
Seller	PWSID	Average Daily	Days	Contract			Required to comply with	Pipe Size(s)	Use

4. Wastewater Information

Monthly Discharges

	Average Daily Discharge (MGD)		Average Daily Discharge (MGD)		Average Daily Discharge (MGD)
Jan	0.0000	May	0.0000	Sep	0.0000
Feb	0.0000	Jun	0.0000	Oct	0.0000
Mar	0.0000	Jul	0.0000	Nov	0.0000
Apr	0.0000	Aug	0.0000	Dec	0.0000



How many sewer connections does this system have? 0

How many water service connections with septic systems does this system have? 0

Are there plans to build or expand wastewater treatment facilities in the next 10 years? No

5. Planning

Projections

2023 550,000 440,000	2030 556,000 453,200	2040 567,325 466,796	2050 567,845 480,800	2060 568,381 495,224	2070 568,933 510,081
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1.0820	1.0822	1.2500	1.2500	1.2500	1.2500
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1.8980	1.9000	1.9000	1.9000	1.9000	1.9000
	550,000 440,000 0.0000 0.0000 1.0820 0.0000 0.0000	550,000 556,000 440,000 453,200 0.0000 0.0000 0.0000 0.0000 1.0820 1.0822 0.0000 0.0000 0.0000 0.0000	550,000 556,000 567,325 440,000 453,200 466,796 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0820 1.0822 1.2500 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	550,000 556,000 567,325 567,845 440,000 453,200 466,796 480,800 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0820 1.0822 1.2500 1.2500 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	550,000 556,000 567,325 567,845 568,381 440,000 453,200 466,796 480,800 495,224 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.0820 1.0822 1.2500 1.2500 1.2500 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

DWR :: Local Water Supply Planning

Future Water Sales

Purchaser PWSID		Contract		Pipe Size(s) (Inches)		Hee Type	
		MGD	Year Begin	Year End	Pipe Size(s) (ii	nones)	Use Type
Brunswick County	04-10-045	50.0000	2030	2070	48,54		Regular
Demand v/s Percent of S	Supply						
		2023	2030	2040	2050	2060	2070
Surface Water Supply		96.0000	96.0000	96.0000	96.0000	96.0000	96.0000
Ground Water Supply		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Purchases		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Future Supplies			0.0000	0.0000	0.0000	0.0000	0.0000
Total Available Supply (MG	D)	96.0000	96.0000	96.0000	96.0000	96.0000	96.0000
Service Area Demand		2.9800	2.9822	3.1500	3.1500	3.1500	3.1500
Sales		37.0000	68.0000	68.0000	68.0000	68.0000	68.0000
Future Sales			50.0000	50.0000	50.0000	50.0000	0.0000
Total Demand (MGD)		39.9800	120.9822	121.1500	121.1500	121.1500	71.1500
Demand as Percent of Sup	ply	42%	126%	126%	126%	126%	74%



The purpose of the above chart is to show a general indication of how the long-term per capita water demand changes over time. The per capita water demand may actually be different than indicated due to seasonal populations and the accuracy of data submitted. Water systems that have calculated long-term per capita water demand based on a methodology that produces different results may submit their information in the notes field.

Your long-term water demand is 0 gallons per capita per day. What demand management practices do you plan to implement to reduce the per capita water demand (i.e. conduct regular water audits, implement a plumbing retrofit program, employ practices such as rainwater harvesting or reclaimed water)? If these practices are covered elsewhere in your plan, indicate where the practices are discussed here. No changes

Are there other demand management practices you will implement to reduce your future supply needs? No changes

What supplies other than the ones listed in future supplies are being considered to meet your future supply needs? No Changes

How does the water system intend to implement the demand management and supply planning components above? No Changes

Additional Information

Has this system participated in regional water supply or water use planning? Yes, Yes, McKim and Creed completed an analysis of usage in 2016.

What major water supply reports or studies were used for planning? Kings Bluff usage, trends and population projections for regiona growth.

Please describe any other needs or issues regarding your water supply sources, any water system deficiencies or needed improvements (storage, treatment, etc.) or your ability to meet present and future water needs. Include both quantity and quality considerations, as well as financial, technical, managerial, permitting, and compliance issues:

The Division of Water Resources (DWR) provides the data contained within this Local Water Supply Plan (LWSP) as a courtesy and service to our customers. DWR staff does not field verify data. Neither DWR, nor any other party involved in the preparation of this LWSP attests that the data is completely free of errors and omissions. Furthermore, data users are cautioned that LWSPs labeled PROVISIONAL have yet to be reviewed by DWR staff. Subsequent review may result in significant revision. Questions regarding the accuracy or limitations of usage of this data should be directed to the water system and/or DWR.

Resolution Adopting the Lower Cape Fear Water & Sewer Authority's Local Water Supply Plan for Bladen Bluffs Regional Surface Water System, PWSID 50-09-012 for Calendar Year 2023

Whereas, North Carolina General Statute 143-335 (l) requires that each system that provides public water services or plans to provide such services shall, either individually or together with other systems, prepare and submit a Local Water Supply Plan at least once each five years; and

Whereas, as required by the statute and in the interests of sound local planning, the Lower Cape Fear Water & Sewer Authority's Local Water Supply Plan for calendar year 2023 for Bladen Bluffs Regional Surface Water System, has been developed and submitted to the Board of Directors for approval; and

Whereas, the Board of Directors for the Lower Cape Fear Water & Sewer Authority (Authority) find that the Local Water Supply Plan is in accordance with the provisions of North Carolina General Statute 143-355 (l) and that it will provide appropriate guidance for the future management of water supplies for the Authority, as well as useful information to the Department of Environmental Quality for the development of a state water supply plan as required by statute.

Now, Therefore, Be It Resolved by the Chairman and Board of Directors of the Lower Cape Fear Water & Sewer Authority that the Local Water Supply Plan for calendar year 2023 for Bladen Bluffs Regional Surface Water System is approved for submittal to the Department of Environmental Quality, Division of Water Resources; (Department); and

Be It Further Resolved that the Board of Directors of the Authority intends that this plan shall be revised to reflect changes in relevant data and projections at least once every five years or as otherwise requested by the Department, in accordance with the statute and sound planning practice.

Harry Knight, Chairman

This Resolution was adopted on the 8th day of April 2024.

Bladen Bluffs - LCFWSA

The Division of Water Resources (DWR) provides the data contained within this Local Water Supply Plan (LWSP) as a courtesy and service to our customers. DWR staff does not field verify data. Neither DWR, nor any other party involved in the preparation of this LWSP attests that the data is completely free of errors and omissions. Furthermore, data users are cautioned that LWSPs labeled PROVISIONAL have yet to be reviewed by DWR staff. Subsequent review may result in significant revision. Questions regarding the accuracy or limitations of usage of this data should be directed to the water system and/or DWR.

1. System Information

50-09-012 Authority	Executive Director	910-733-0016
PWSID: Ownership:	Title	Phone: Cell/Mobile:
Bladen Bluffs - LCFWSA 1107 New Pointe Blvd., Suite # 17 Leland, NC 28451	Tim Holloman 910-383-1919	James Kem PO Box 100 Tar Heel, NC 28392
Water System Name: Mailing Address:	Contact Person: Phone:	Secondary Contact: Mailing Address:

Provisional

Size Range (Inches) 24 Line Type Ductile Iron

Estimated % of lines 100.00 %

What are the estimated total miles of distribution system lines? 1 Miles How many feet of distribution lines were replaced during 2023? 0 Feet

How many feet of new water mains were added during 2023? 0 Feet

How many meters were replaced in 2023? 0

How old are the oldest meters in this system? O Year(s)

How many meters for outdoor water use, such as imgation, are not billed for sewer services?

What is this system's finished water storage capacity? 4.0000 Million Gallons

Has water pressure been inadequate in any part of the system since last update? Line breaks that were repaired quickly should not be included. No

Does this system have a program to work or flush hydrants? No

Does this system have a valve exercise program? No

Does this system have a cross-connection program? No

Does this system have a program to replace meters? No

Does this system have a plumbing retrofit program? No Does this system have an active water conservation public education program? No

Does this system have a leak detection program? No

ater Conservati

What type of rate structure is used? Other

How much reclaimed water does this system use? 0.0000 MGD For how many connections? 0

Does this system have an interconnection with another system capable of providing water in an emergency? Yes

2. Water Use Information

100 % Bladen	6 of Service Population County(s)	
Cape Fear River (02-3)	Sub-Basin(s) % of Servi	

% of Service Population

Non-Metered Estimated Use (MGD) 0.0000 0.0000 0.0000

What was the year-round population served in 2023? 0

Has this system acquired another system since last report? No

ster Use by Type

Non-Metered Connections	0	0	0	0
Metered Average Use (MGD)	0.0000	0.0000	0.0000	0.0000
Metered Connections	0	0	0	0
Type of Use	Residential	Commercial	Industrial	Institutional

How much water was used for system processes (backwash, line cleaning, flushing, etc.)? 0.0597 MGD

NAME OF THE PARTY OF THE PARTY

Use Type	Regular
Pipe Size(s) (Inches)	24
Required to comply with water use restrictions?	No
Recurring	Yes
Contract	
MGD	4.0000
Days	240
Average Daily Sold (MGD)	2.4566
PWSiD	03-09-527
Purchaser	Smithfield Packing Company

3. Water Supply Sources

urface Water Sources

Usable On-Stream Raw Water Supply	Storage (MG)	0.0000
Available Raw Water Supply	o.	٦0 ٦
Maximum Day Vithdrawal (MGD) MGD		4.2400 6.000
verage Daily Withdrawal	Days Used	227
Averag Reservoir MGD		2.7933
Stream	Cape Fear River	

^{*} Qualifier: C=Contract Amount, SY20=20-year Safe Yield, SY50=50-year Safe Yield, F=20% of 7Q10 or other instream flow requirement, CUA=Capacity Use Area Permit

Use Type	Regular
Year Offline	
County	Bladen
Sub-Basin	Cape Fear River (02-3)
Metered?	Yes
Drainage Area (sq mi)	4,900
Reservoir	
Stream	Cape Fear River

What is this system's off-stream raw water supply storage capacity? 0 Million gallons

Are surface water sources monitored? Yes, Daily

Are you required to maintain minimum flows downstream of its intake or dam? No

Does this system anticipate transferring surface water between river basins? No

ater Purchases From Other Systems

Use Type	Regular	Source	River
Pipe Size(s) (Inches)	24	S	Cape Fear River
Required to comply with water use restrictions?	No	Is Finished Water Ouput Metered?	Yes
Recurring	Yes	ls Finish	
Contract		Metered?	
MGD		is Raw Water Metered?	Yes
Days	0	\$	
Average Daily Purchased (MGD)	0.0000	Permitted Capacity (MGD)	6.0000
DISMA	03-09-527		
Seiler	Smithfield Packing Inc.	Plant Name	Bladen Bluffs Surface Water Tr

Did average daily water production exceed 80% of approved plant capacity for five consecutive days during 2023? No

If yes, was any water conservation implemented?

Did average daily water production exceed 90% of approved plant capacity for five consecutive days during 2023? No

Cape Fear River (02-3)

Cape Fear River

Receiving Basin

Receiving Stream

If yes, was any water conservation implemented?

Are peak day demands expected to exceed the water treatment plant capacity in the next 10 years? No

4. Wastewater Information

Average Daily Discharge (MGD) 0.0944 0.1406 0.2357 0.1257 Avg Daily Sep Oct No. Dec 2 10N Average Daily Discharge (MGD) 0.1009 0.1276 0.1126 0.1204 Bladen Bluffs - LCFWSA's 2023 Monthly Discharges む 0° Onb May Aug Jun JOC 47/ TON Average Daily Discharge (MGD) 0.1602 0.1579 0.1427 0.1011 10p Feb Mar Jan Apr 040 Million Gallons Per Day (MGD)

How many sewer connections does this system have? 0

How many water service connections with septic systems does this system have? $\, \mathbf{0} \,$

Are there plans to build or expand wastewater treatment facilities in the next 10 years? No

Vastewater Permits

Maximum Day Discharge (MGD)	1.5000
Average Annual Daily Discharge (MGD)	0.2000
Design Capacity (MGD)	1.5000
Permitted Capacity (MGD)	1,5000
Type	WTP
Permit Number	NCG590020

5. Planning

Projections

	2023	2030	2040	2050	2060	2070
Year-Round Population	0	0	0	0	0	0
Seasonal Population	0	0	0	0	0	0
Residential	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Commercial	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial	0.0000	0.000	0.0000	0.0000	0.0000	0.0000
Institutional	0.0000	0.0000	0.0000	0.0000	0.0000	00000
System Process	0.0597	0.0597	0.0597	0.0597	0.0597	0.0597
Unaccounted-for	0.0622	1.5900	1.5900	1,5900	1,5900	1.5900
Demand vis Percent of Supply						
	2023	2030	2040	2050	2060	2070
Surface Water Supply	000009	000009	00000'9	6.0000	00000'9	6.0000
Ground Water Supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Purchases	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Future Supplies		0.0000	0.0000	0.0000	0.0000	0.0000
Total Available Supply (MGD)	00000	0.000	6.0000	0000'9	000009	6.0000
Service Area Demand	0.1219	1.6497	1.6497	1.6497	1,6497	1,6497
Sales	1.6153	4.0000	4.0000	4.0000	4.0000	4.0000
Future Sales		00000	000000	0.0000	0.0000	0.0000
Total Demand (MGD)	1.7372	5.6497	5.6497	5.6497	5.6497	5.6497
Demand as Percent of Supply	78%					



The purpose of the above chart is to show a general indication of how the long-term per capita water demand changes over time. The per capita water demand may actually be different than indicated due to seasonal populations and the accuracy of data submitted. Water systems that have calculated long-term per capita water demand based on a methodology that produces different results may submit their information in the notes field

Your long-term water demand is unavailable until we receive population data for 2023 gallons per capita per day. What demand management practices do you plan to implement to reduce the per capita water demand (i.e. conduct regular water audits, implement a plumbing retrofit program, employ practices such as rainwater harvesting or reclaimed water)? If these practices are covered elsewhere in your plan, indicate where the practices are discussed here.

Are there other demand management practices you will implement to reduce your future supply needs?

What supplies other than the ones listed in future supplies are being considered to meet your future supply needs?

How does the water system intend to implement the demand management and supply planning components above?

Adultional Information

Has this system participated in regional water supply or water use planning? No

What major water supply reports or studies were used for planning?

Please describe any other needs or issues regarding your water supply sources, any water system deficiencies or needed improvements (storage, treatment, etc.) or your ability to meet present and future water needs. Include both quantity and quality considerations, as well as financial, technical, managerial, permitting, and compliance issues:

The Division of Water Resources (DWR) provides the data contained within this Local Water Supply Plan (LWSP) as a courtesy and service to our customers. DWR staff does not field verify data. Neither DWR, nor any other party involved in the preparation of this LWSP attests that the data is completely free of errors and omissions. Furthermore, data users are cautioned that LWSPs labeled PROVISIONAL have yet to be reviewed by DWR staff. Subsequent review may result in significant revision. Questions regarding the accuracy or imitations of usage of this data should be directed to the water system and/or DWR.

CONSENT AGENDA (C6)

Lower Cape Fear Water & Sewer Authority

CONSENT ITEM- Background: Line-Item adjustments are made to align revenues and expenditures more closely to actuals without exceeding or decreasing the approved or amended budget.

LINE-ITEM ADJUSTMENTS FOR 02/29/2024

Operating Fund:	Line-Item Budget Amount prior to Adjustment	Decrease	Increase	Budget Amount as of 02/29/2024
Expenses				
4047-01 Office Expense	\$8,000		\$200	\$8,200
4049-01 Information Technology	\$45,370		\$2,000	\$47,370
4062-01 Office Equipment	\$20,000		\$6,000	\$26,000
4062-01 Print and Advertising	\$5,000		\$3,000	\$8,000
4062-01 Office Equipment	\$15,000	\$11,200		\$3,800
Total	\$ 93,370	\$(11,200)	\$11,200	\$ 93,370

NEW BUSINESS (OB1)

Lower Cape Fear Water & Sewer Authority

AGENDA ITEM

To:

CHAIRMAN KNIGHT AND BOARD MEMBERS

From:

TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date:

April 8, 2024

Re:

Resolution of Lower Cape Fear Water and Sewer Authority Board of

Directors Awarding Contract for Partial Replacement of Existing Roof at the

Kings Bluff Pump Station

Reviewed and approved as to form: MATTHEW A. NICHOLS, AUTHORITY ATTORNEY

Background: The Lower Cape Fear Water & Sewer Authority has undertaken a thorough assessment of the Kings Bluff roofing system's condition to address maintenance and safety concerns.

Action Requested: Motion to approve/disapprove.

RESOLUTION OF LOWER CAPE FEAR WATER AND SEWER AUTHORITY BOARD OF DIRECTORS AWARDING CONTRACT FOR PARTIAL REPLACEMENT OF EXISTING ROOF AT THE KINGS BLUFF PUMP STATION

WHEREAS, the Lower Cape Fear Water and Sewer Authority ("LCFWASA") has determined that it is necessary for a partial replacement of the standing seam metal roof at the Kings Bluff Pump Station;

WHEREAS, LCFWASA initially solicited informal bids without engineering specifications from prospective roofing contractors for the roof replacement project and received three bids that varied widely in scope of work, specifications and price;

WHEREAS, based upon the wide variation and lack of standardization in the informal bid responses, LCFWASA determined that it was in the public interest to engage an engineering firm to prepare plans detailing the roof replacement specifications and scope of work required for the project for purposes of ensuring the safety and integrity of the facilities, securing high-quality services within budgetary constraints, and to assist in the contractor procurement process for the project;

WHEREAS, in August 2023 LCFWASA engaged McKim & Creed ("Engineer") to provide LCFWASA with a bid package of construction documents consisting of construction drawings and specifications in order to allow LCFWASA to solicit bids from prospective contractors qualified to perform the work pursuant to the Engineer's plans and specifications;

WHEREAS, the Engineer completed the roof replacement plans and specifications in November 2023, and the project was advertised with bids due in mid-December 2023;

WHEREAS, LCFWASA received no responses to the first advertisement for bids:

WHEREAS, LCFWASA readvertised the roof replacement project in January 2024 with responses due in February 2024;

WHEREAS, LCFWASA received only one bid in response to the second advertisement, the amount of which was significantly higher than LCFWASA's budget for the project; and,

WHEREAS, LCFWASA determined that it was not in the public interest to accept the sole bid submitted because the amount of the bid was not cost effective and significantly exceeded LCFWASA's budget for the project;

WHEREAS, accordingly, at the Board's Regular Meeting on March 11, 2024, the Board rejected the sole bid, instructed the Executive Director to provide the sole bidder notice of the same, and authorized the Executive Director to solicit additional bids for the project pursuant to the requirements of N.C.G.S. § 143-131 and LCFWASA's Contract and Purchasing Policy:

WHEREAS, LCFWASA solicited additional bids for the project and received one additional bid in the amount of \$93,788.00 from Highland Roofing Company of Wilmington / Raleigh, North Carolina, dated March 29, 2024, based upon the project drawings dated November 28, 2023;

WHEREAS, LCFWASA has determined that it is in the public interest to accept Highland Roofing Company's bid because it is cost effective, within LCFWASA's budget for the project, and Highland Roofing Company is the lowest responsible, responsive bidder; and,

WHEREAS, the Board wishes to award the contract for the partial replacement of the standing seam metal roof at the Kings Bluff Pump Station to Highland Roofing Company.

NOW, THEREFORE, BE IT RESOLVED by the Chairman and Directors of the LCFWASA Board that the bid received from Highland Roofing Company for the partial replacement of the standing seam metal roof at the Kings Bluff Pump Station dated March 29, 2024, in the amount of \$93,788.00 is hereby accepted. The Board of Directors designates that the Chairman and the Executive Director are duly authorized to execute a contract with Highland Roofing Company for the above-referenced matter on behalf of LCFWASA in the amount of \$93,788.00, subject to review and approval of the contract as to form by LCFWASA's attorney.

THEREFORE, BE IT FURTHER RESOLVED, that a copy of this Resolution be recorded in the permanent minutes of this Board. This Resolution shall be effective upon passage.

Adopted this day of April 2024.		
	Harry Knight, Chairman	
ATTEST:		
Scott Phillips, Secretary		

NEW BUSINESS (NB1)

Lower Cape Fear Water & Sewer Authority

AGENDA ITEM

To:

CHAIRMAN KNIGHT AND BOARD MEMBERS

From:

TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date:

April 8, 2024

Re:

Resolution Recognizing National Drinking Water Week

Reviewed and approved as to form: MATTHEW A. NICHOLS, AUTHORITY ATTORNEY

Background: For more than 40 years, the American Water Works Association and its members have used Drinking Water Week as a unique opportunity for water professionals and the communities they serve to recognize water's vital role in our daily lives.

National Drinking Water Week is celebrated annually during the first whole week in May. This year's recognition will be May 5-11, 2024.

Action Requested: Motion to approve/disapprove Resolution.

Resolution Recognizing National Drinking Water Week

WHEREAS the Board of Directors for Lower Cape Fear Water & Sewer Authority ("the Authority") wishes to provide and promote the importance of raw water to the region; and

WHEREAS, the Authority is a regional organization created to aid the development of a water supply system for its sponsoring member governments comprised of Bladen, Brunswick, Columbus, New Hanover, and Pender Counties, and the City of Wilmington; and

WHEREAS the Authority recognizes that water is our most valuable natural resource; and

WHEREAS, water is treated by our wholesale partners providing public health protection, fire protection, support for our economy and the quality of life we enjoy; and

WHEREAS, any measure of a successful society, low mortality rates, economic growth and diversity, productivity, and public safety are related to access to water; and

WHEREAS we are all stewards of the water infrastructure upon which future generations depend; and

WHEREAS the Authority's Board of Directors calls upon the residents and businesses of our region and those further upriver to protect our source waters from pollution, to practice water conservation, and to get involved in local water issues.

NOW, THEREFORE, BE IT RESOLVED, by the Chairman and the Board of Directors for the Lower Cape Fear Water & Sewer Authority that the first full week in May is proclaimed as Drinking Water Week.

THEREFORE, BE IT FURTHER RESOLVED, that a copy of this resolution be recorded in the permanent minutes of this Board.

This Resolution was adopted on the 8th day of April 2024.

	Harry Knight, Chairman
ATTEST:	
Scott Phillips, Secretary	

Executive Director's Report (EDR1-3)

Lower Cape Fear Water & Sewer Authority

AGENDA ITEM

To: CHAIRMAN KNIGHT AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: April 8, 2024

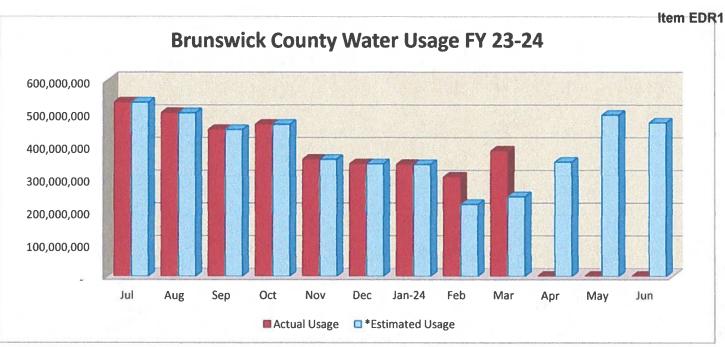
Re: Executive Director's Report

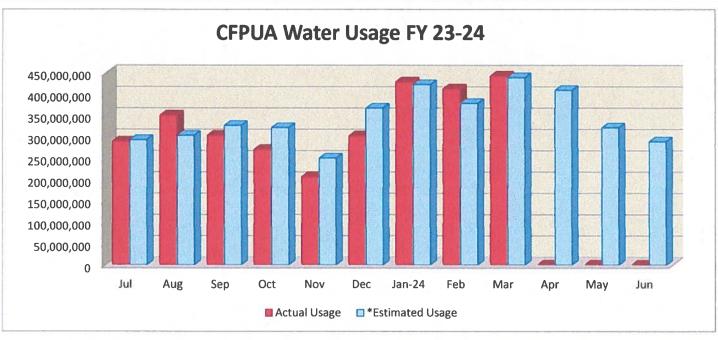
EDR1 - Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date Ending March 31, 2024

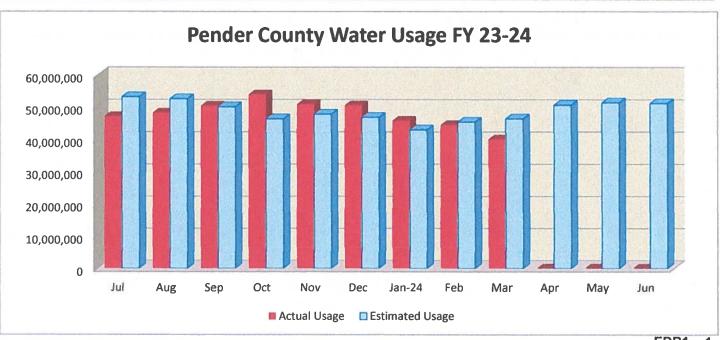
EDR2 - Operating Budget Status, Ending February 29, 2024

EDR3 - Summary of Activities.

Action Requested: For information purposes.







OPERATING FUND BUDGET PERFORMANCE

Jul-1 through Feb 29

	Approved	Approved	Jul 1- Feb 29	Jul 1- Feb 29	Jul 1- Feb 29	Budget
Income	Annual Budget	Annual Budget	Kings Bluff	Bladen Bluffs	OF BUDGET	As of 2/29/2024
3000-01 · OPERATING REVENUE		1,				
3001-01 · 01 Bruns County Public Utility	1,725,765	1,908,193	1,315,592		1,315,592	69%
3002-01 · 01 CFPUA	1,652,562	1,652,562	1,026,644		1,026,644	62%
3003-01 - 01 Pender County	234,160	234,160	156,832		156,832	67%
3004-01 · 01 HWY 421 - Invista	200,000	100,000	78,638		78,638	79%
3005-01 · 01 Praxair, Inc	100,000	40,784	10,135		10,135	25%
3006-01 · 01 Bladen Bluffs Revenue	4,938,603	4,938,603		4,215,237	4,215,237	85%
Bladen Admin Reimb 3007-01 · Sales Tax Refund Revenue	110,473	110,473		105,836	105,836	96%
Total 3000-01 · OPERATING REVENUE	100,000	100,000	0.507.040	106,041	106,041	106%
3100-00 - OF NONOPERATING REVENUE	9,061,563	9,084,775	2,587,840	4,427,113	7,014,954	77%
3120-00 · Revenue-Other						
Interest & Investment Revenue	500	9,716	36,993	USB/KEERING	36,993	381%
FEMA Reimbursement	0	0,110	0		0.00,993	0%
Refunds / Insurance Proceeds/ Other	0		489		489	0%
3180-00 · SRF/Parallel Revenue	2,500,000	2,500,000	1,005,732		1,005,732	40%
3900-01 R&R Fund Appropriated	0	0	D		0	0%
2900-00 Fund Balance	0	o	0		o	0%
Total 3100-00 · OF NONOPERATING REVENUE	2,500,500	2,509,716	1,043,214	0	1,043,214	42%
Total Income	11,562,063	11,594,491	3,631,054	4,427,113	8,058,168	70%
Expense						
4000-01 · ADMINISTRATION EXPENDITURES						
4001-01 · Salary - gross	203,530	203,530	92,159	35,618	127,777	63%
4010-01 · Per Diem= mileage+per diem pay	64,001	64,001	25,407	11,200	36,607	57%
4012-01 - Vehicle Allowance	5,200	5,200	2,490	910	3,400	65%
4070-02 - Phone Allowance	520	520	249	91	340	65%
4015-01 · Payroll Taxes	20,953	20,953	9,127	3,667	12,794	61%
4029-01 - Retirement Employer's Part	26,153	26,153	11,785	4,577	16,362	63%
4035-01 - 401K Employer PD Contribution	11,312	11,312	5,100	1,980	7,080	63%
4036-01 - Payroll Processing Exp 4038-01 - Insurance Group	2,900 40,176	2,900 40,176	1,976	7.024	1,976	68%
4039-01 - Insurance, Property	103,734	103,734	66,361	7,031 18,153	25,334 84,514	63% 81%
4046-00 Professional Services General	15,000	3,800	00,501	10,103	04,514	0%
4046-01 · Attorney	50,000	50,000	23,437		23,437	47%
4047-01 · Auditor	8,000	8,200	5,400	2,800	8,200	100%
4048-01 · Engineer	300,000	290,000	38,609		38,609	13%
4049-01 Information Technology	16,000	50,428	14,539		14,539	29%
4055-01 · Office Maint/Repair	24,000	24,000	11,529		11,529	48%
4058-01 Office Utilities	5,000	5,000	1,513		1,513	30%
4059-01 Office Expense	14,000	14,000	9,488		9,488	68%
4062-01 Office Equipment	10,000	26,000	29,001		29,001	112%
4064-01 Printing & Advertising	5,000	8,000	4,445		4,445	56%
4065-01 Telephone and Internet	3,500	3,500	2,145		2,145	61%
4070-01 · Travel & Training	29,000	29,000	13,327		13,327	46%
4080-01 · Miscellaneous Expenses Total 4000-01 · ADMINISTRATION EXPENDITURES	20,000	20,000	11,707	00.000	11,707	59%
	977,979	1,010,407	398,097	86,026	484,123	48%
4500-01 · OPERATING EXPENDITURES	400.000	400 000		20.05	00.00	00%
4501-00 · Sales Tax Expense - Other	100,000	100,000		96,294	96,294	96%
4510-01 · Bladen Bluffs Expenses 4520-01 · Utilities-Energy Pump Station	3,324,385 786,589	3,324,385 786,589	492.018	2,772,657	2,772,657	83%
4530-01 · Kings Bluff O&M Expenses	686,749	686,749	483,018 221,872	HINCOSTIC	483,018 221,872	61% 32%
4535-01 Kings Bluff Hurricane Other FEMA	000,743	0	0		0	0%
4543-01 - Series 2012 Bond Principal (ST)		0			0	0%
4544-01 · Series 2012 Bond Interest (ST)	0	0	0		0	0%
4545-01 · Series 2010 Bond Principal (BB)	970,000	970,000	LIFE STREET, S	970,000	970,000	100%
4548-01 · Series 2010 Bond Interest (BB)	450,000	450,000		351,436	351,436	78%
5180-00 · SRF/Parallel Expenditures	2,500,000	2,500,000		1,601,653	1,601,653	64%
7400-01 · Operating Capital Expense	1,286,360	1,286,360		76,329	76,329	6%
4998-05- Transfer to R&R- KB R&R Expense	380,000	380,000	Silvaria Silvaria	380,000	380,000	100%
4998-05- Transfer to Enterprise Fund	100,000	100,000	通助者不够是特	100,000	100,000	100%
Total 4500-01 · OPERATING EXPENDITURES	10,584,083	10,584,084	704,890	6,348,369	7,053,259	67%
Total Expense	11,562,062	11,594,491	1,102,987	6,434,396	7,537,383	65%

Executive Director Highlighted Activities:

- Regular Monthly meeting with Design Build Team and Owner's Advisor for the parallel line project.
- Worked with McKim and Creed on roof work at Kings Bluff and met with bidders.
- Worked with McKim and Creed on the PER for the air backwash and walkway.
- Worked with McKim and Creed to update the Master Planning Document to submit to the Long-Range Planning Commission.
- Worked with the Owner's Advisor to submit a request for drawing down the \$30 million for the 10-mile parallel project and the reservoir project exploration.
- Participated in weekly update meetings on the 10-mile parallel line.
- Met with the electrician and Duke to schedule the placement of service on "Red Barn" in preparation for burning and removing the former rental house.
- Spoke at the New Hanover County Board meeting in regard to Sand Mine Special Use Permit modification.
- Attended Pender County monthly meeting.
- Attended CFPUA monthly meeting.
- Participated in a meeting with our Environmental Commission representative and partners.
- Planned the Environmental presentation for Leadership Brunswick, hosted at LCFWASA.
- Participated in the Health Services Education Day for Leadership Brunswick.
- Participated in interviews for the new operator at Kings Bluff.
- Continued work on the 2024-2025 physical year budget.
- Worked with Brunswick County and Power Secure for Generator sensor repairs and testing.
- Spoke with a Duke sustainability representative on opportunities in the Cape Fear Region.

Closed Session (CS1)

To:

Lower Cape Fear Water & Sewer Authority

AGENDA ITEM

From:	n: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR			
Date:	April 8, 2024			
Re:	Closed Session in Accordance with NCGS §143-318.11(a)(3) and (a)(6) to consult with attorney in order to preserve the attorney-client privilege and for Personnel Matters respectively			
Reviewed and approved as to form: MATTHEW A. NICHOLS, AUTHORITY ATTORNEY				
A Closed Session is required in accordance with NCGS §143-318.11(a)(3) and (a)(6) to discuss with our attorney matters within the attorney-client privilege and for Personnel Matters respectively.				
A motion is made by to go into a closed session in accordance with North Carolina General Statute Section 143-318.11(a)(3) and (a)(6).				
The m	The motion is seconded by			
Closed Session				
A mot open s	A motion is made by to return to open session.			
The motion is seconded by				

CHAIRMAN KNIGHT AND BOARD MEMBERS