AGENDA Lower Cape Fear Water & Sewer Authority 1107 New Pointe Boulevard, Suite # 17, Leland, North Carolina 8:00 a.m. – Finance Committee Meeting May 8th, 2023

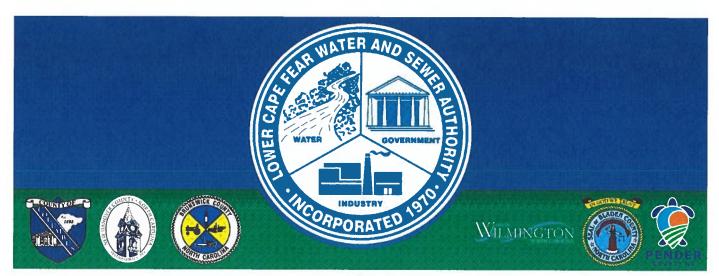
MEETING CALL TO ORDER: Chairman Blanchard

PRESENTATION: Preliminary Draft of Fiscal 2023-2024 Budget

DISCUSSION: Directors' Comments and Questions

ACTION/DIRECTION: Recommend to the full Board for Consideration at Regular Meeting to follow and for approval at the June 5th, 2023, meeting.

ADJOURNMENT



AGENDA Lower Cape Fear Water & Sewer Authority 1107 New Pointe Boulevard, Suite # 17, Leland, North Carolina 9:00 a.m. – Regular Monthly Board Meeting May 8, 2023

MEETING CALL TO ORDER: Chairman Blanchard

INVOCATION

PLEDGE OF ALLEGIANCE

APPROVAL OF CONSENT AGENDA

- C1 Minutes of April 10, 2023, Regular Board Meeting
- C2 Minutes of April 10, 2023, Long Range Planning Committee Meeting
- C3 Kings Bluff Monthly Operations and Maintenance Report
- C4 Bladen Bluffs Monthly Operations and Maintenance Reports
- C5 Retainer for General Counsel Services Agreement: Matthew Nichols, Attorney at Law in the amount of \$195 per hour for FY 2023-2024
- C6 Line-Item Adjustment for March 31, 2023

C7 A - Resolution of Lower Cape Fear Water & Sewer Authority Exempting Lower Cape Fear Water & Sewer Authority from The Provisions of N.C.G.S. §143-64.31 for C7 B

C7 B - Retainer for Engineering Services Agreement: McKim & Creed in the amount of \$21,000 for Fiscal Year 2024-2025

PUBLIC HEARING: PRESENTED DRAFT BUDGET FOR FISCAL YEAR 2023-2043 BUDGET AND BUDGET ORDINANCE

- A. Public Hearing:
 - Motion to open Public Hearing in accordance with North Carolina General Statute Section 159-12 for the review of the Fiscal Year 2023-2024 Budget and Budget and Budget Ordinance for Consideration of Approval on June 5th, 2023
 - Motion to close Public Hearing

NEW BUSINESS

NB1 - Finance Committee Comments and Review of Draft Recommended Budget for the Fiscal Year 2023-2024 (Finance Committee Chairman Norwood Blanchard)

NB2-Consideration of Design Build Team and Award contingent on funding receipt of initial preconstruction costs.

ENGINEER'S COMMENTS

ATTORNEY COMMENTS

EXECUTIVE DIRECTOR REPORT

 EDR1-Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date Ending April 30, 2023
 EDR2-Operating Budget Status, Ending March 31, 2023.
 EDR3-Summary of Activities

DIRECTOR'S COMMENTS AND/OR FUTURE AGENDA ITEMS

PUBLIC COMMENT

ADJOURNMENT

The next board meeting of the Lower Cape Fear Water & Sewer Authority is scheduled for Monday, June 5th at 9:00 a.m. in the Authority's office located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina.

Consent Agenda (CA)

AGENDA ITEM

To: CHAIRMAN BLANCHARD AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: May 8, 2023

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 April 10, 2023, Regular Board Meeting

C2 - Minutes of April 10, 2023, Long Range Planning Committee Meeting

- C3 Kings Bluff Monthly Operations and Maintenance Report
- C4 Bladen Bluffs Monthly Operations and Maintenance Report

C5 - Retainer for General Counsel Services Agreement: Matthew Nichols, Attorney at Law in the amount of \$195 per hour for FY 2023-2024

C6 - Line-Item Adjustment for March 31, 2023

C7 A - Resolution of Lower Cape Fear Water & Sewer Authority Exempting Lower Cape Fear Water & Sewer Authority from The Provisions of N.C.G.S. §143-64.31 for C7 B.

C7 B - Retainer for Engineering Services Agreement: McKim & Creed in the amount of \$21,000 for Fiscal Year 2024-2025.

Action Requested: Motion to approve/disapprove Consent Agenda.

Lower Cape Fear Water & Sewer Authority Regular Board Meeting Minutes April 10th, 2023

Chairman Blanchard called to order the Authority meeting scheduled on April 10th, 2023, 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 Leonard gave the invocation.

Roll Call by Chairman Blanchard:

Present: Norwood Blanchard, Patrick DeVane, Wayne Edge, Harry Knight, Al Leonard, Jackie Newton, Phil Norris, Scott Phillips, Charlie Rivenbark, Chris Smith, Bill Sue, Frank Williams, and Rob Zapple

Present by Virtual Attendance: Bill Saffo

Absent: None

Staff: Tim H. Holloman, Executive Director; Tony Boahn P.E., McKim & Creed, Sam Shore, COG; and Danielle Hertzog, Financial Administration Assistant

Staff Virtual Attendance: Matthew Nichols, General Counsel

Guests Present: Glenn Walker, Brunswick County Water Resources Manager; Jordan Clark, Computer Warriors; Ken Waldroup, Cape Fear Public Utility Authority Executive Director; and Nikki Cooper Paralegal for Law Office of Matthew A. Nichols.

Guests Virtual Attendance: Tom Hendrick, Pender County Utilities Water Treatment Plant Superintendent; and Kenny Keel, Pender County Public Utilities Director

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

APPROVAL OF CONSENT AGENDA

C1 - Minutes of March 13, 2023, Regular Board Meeting

<u>C2 – Minutes of March 13, 2023, Finance Meeting</u>

C3 - Minutes of March 13, 2023, Personnel Meeting

C4 - Kings Bluff Monthly Operations and Maintenance Report

C5 - Bladen Bluffs Monthly Operations and Maintenance Reports

C6 - Line-Item Adjustment for February 28, 2023

<u>C7 – Resolution Adopting the Lower Cape Fear Water & Sewer Authority's Local Water Supply Plan for</u> <u>Kings Bluff Raw Water Pump Station, PWSID 50-09-013, for calendar year 2022.</u>

<u>C8 – Resolution Adopting the Lower Cape Fear Water & Sewer Authority's Local Water Supply Plan for</u> <u>Bladen Bluff's Regional Surface Water System, PWSID 50-09-013, for calendar year 2022.</u>

Motion: Director Edge **MOVED**; seconded by Director Leonard, approval of the Consent Agenda Items C1-C8 as presented. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

OLD BUSINESS

<u>OB1 – Consider the purchase or lease of the Caterpillar TL642 Telehandler for Kings Bluff Raw Water Plant</u> Executive Director Holloman presented the items and answered clarification questions.

Motion: Director DeVane **MOVED**; seconded by Director Newton, to table the Telehandler at this time. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

NEW BUSINESS

NB1 - Resolution Recognizing National Drinking Water Week

Motion: Director DeVane **MOVED**; seconded by Director Williams, to approve the resolution recognizing Nation Drinking Water Week. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

<u>NB2 - Resolution to Delegate Authority to Declare Personal Property as Surplus and Dispose of such</u> <u>Property Pursuant to N.C.G.S. 160A-266(c)</u>

Executive Director Holloman advised that from time to time, the Authority has items to surplus. Gov Deals service offers a broad marketing base for municipalities, counties, and other governmental agencies to sell surplus equipment and vehicles. Director Zapple wanted to know if LCFWASA has a list of items to surplus. Executive Director Holloman advised we only have the 2005 truck at this time, and in the future, he will bring a list of things when we have them.

Motion: Director Knight **MOVED**; seconded by Director Zapple, to approve the Resolution to Delegate Authority to Declare Personal Property as Surplus and Dispose of such Property Pursuant to N.C.G.S. 160A-266(c). Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

NB3 - Budget Amendment #3

Executive Director Holloman advised the increase is for Bladen Bluff's revenue and expenditures to balance the budget.

Motion: Director Zapple **MOVED**; seconded by Director Williams, to approve Budget Amendment #3. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

<u>NB4 - Resolution Approving Easement Encroachment Agreement with Piedmont Natural Gas Company, Inc.</u> for Installation of a Natural Gas Line within a Portion of Lower Cape Fear Water and Sewer Easement

Executive Director Holloman notified that the Authority has been working with McKim and Creed, the Authority attorney, and Kleinfelder, who represents Piedmont Natural Gas, to finalize an easement encroachment agreement. It was first proposed as a temporary construction easement while some of its lines were to be upgraded.

Motion: Director Norris **MOVED**; seconded by Director Sue, to approve the Resolution Approving Easement Encroachment Agreement with Piedmont Natural Gas Company, Inc. for the Installation of a Natural Gas Line within a Portion of Lower Cape Fear Water and Sewer Easement. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

NB5 - Consider Approval of 401 K Employee Contribution Policy

Executive Director Holloman confirmed that the Personnel Committee recommended changing it from the current contribution of 3% with no matching requirement for Authority employees to a policy matching up to 6% of the employees' contribution. For example, if an employee contributes 2%, then the Authority matches only 2%. This policy would become effective July 1, 2023.

Motion: Director Knight **MOVED**; seconded by Director Sue, approval of 401 K Employee Contribution Policy. Upon voting, the **MOTION CARRIED**.

	For	Against	Abstained	Absent
Norwood Blanchard	Х			
Wayne Edge	Х			
Patrick DeVane	X			
Harry Knight	Х			
Al Leonard	Х			
Jackie Newton		X		
Phil Norris	Х			
Scott Phillips	X			
Charlie Rivenbark	Х			
Bill Saffo	Х			
Chris Smith	Х			
Bill Sue	X			
Frank Williams	X			
Rob Zapple	Х			
	13	1	0	0

ENGINEER'S COMMENTS

Tony Boahn updated the board to let them know the Livingston Creek Walkway Improvement project is now completed. While completing this project, the contractor did notice the joint needed to be repaired. The concrete has chipped away. Mr. Boahn has asked the contractor to complete the joint repair; however, they are waiting on the quote.

ATTORNEY COMMENTS

No comments

EXECUTIVE DIRECTOR REPORT

<u>EDR1 – Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date Ending</u> <u>March 31, 2023</u>

Executive Director Holloman reported that during March 2023, Brunswick County and Pender County were above projections.

DIRECTOR'S COMMENTS AND/OR FUTURE AGENDA ITEMS

No comments

PUBLIC COMMENT

No comments

CLOSED SESSION

Chairman Blanchard requested a motion to go into a closed session to discuss Attorney-Client Privilege and Personnel Matters:

Motion: Director Williams **MOVED**; seconded by Director Knight, to go into 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. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

At 9:49 a.m., the board went into a closed session. At 10:32 a.m., the board returned to the open session—discussion only; no action was required.

ADJOURNMENT

There being no further business, Chairman Blanchard adjourned the meeting at 10:33 a.m.

Respectfully Submitted:

Patrick DeVane, Secretary

Chairman Blanchard called to order the Long-Range Planning Committee Meeting on April 10, 2023, 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.

Roll Call by Chairman Blanchard:

Present: Norwood Blanchard, Patrick DeVane, Harry Knight, Al Leonard, Charlie Rivenbark, Frank Williams, and Rob Zapple

Present by Virtual Attendance: None

Absent: None

Staff: Tim H. Holloman, Executive Director; Tony Boahn P.E., McKim & Creed, Sam Shore, COG; and Danielle Hertzog, Financial Administration Assistant

Staff Virtual Attendance: Matthew Nichols, General Counsel

Guests Present: Director Wayne Edge, Glenn Walker, Brunswick County Water Resources Manager; Jordan Clark, Computer Warriors.

Guests Virtual Attendance: Kenny Keel, Pender County Public Utilities Director.

Presentation: Master Plan Review (Capital Improvement Plan) review by Tony Boahn

Tony Boahn presented the current draft Capital Improvement Plan (CIP) from 2023 through 2046, including Kings Bluff, Raw Water facilities, and Bladen Bluff water treatment facilities. The CIP had several factors including category of need, capacity issue, does it need to be replaced or rehabilitated, and is there a maintenance efficiency or redundancy issue. They assigned each project a criticality score as far as whether it's a high priority, low priority, also looked at no consequence if no action. There are three primary drivers: demand and capacity, life cycle, redundancy, and resiliency. The critically is scored one, two, or three. One being the lowest and three being the highest need. The preliminary design memorandum is based on a demand table for projected usage from the different entities with a future demand of 96 million gallons per day in 2062.

Tony Boahn listed eleven projects for Kings Bluff and seven projects that are cost sharing projects. KB1 New 4th Pump at Kings Bluff has a criticality of three because current pumps will meet projected demands by 2035. The fourth pump will be standby/backup and add to pump rotation to reduce hours per pump. KB2 Rebuild high service pump motor. Rebuilding of the pumps will extend the service life of the pumps. KB3 New generators have a criticality of three due to the need to upgrade due to the future increased load associated with auxiliary pump motor HP and larger quantities pump. KB4 Pig 48" pipe from Kings Bluff pump station to 3 MG ground tank has a criticality of one because pigging will maintain a clean pipeline free of sediment, silt, and debris cleaned. It will also improve the efficiency of pumps by reducing the frictional characteristics of the pipeline. KB5 Pig future 54" pipe from 3MG ground tank to US 421 has a criticality of one sighting the same reason as pigging the 48" pipeline. KB6 Walkway and air backwash building replacement have a criticality of two because the walkway is in serviceable condition and will need to be replaced by 2024 due to rotting wood and overall weathering of the walkway. KB7 Replacing raw water pumps 1,4 and 5 has a criticality of three due to age and mechanical wear. This project is more of a placeholder, and so we can budget and plan for replacement. The pumps have been in operation since 2009. KB8 New surge tank at Kings Bluff has a criticality of two because as the demand increases, surges in the system will likely increase, and this needs to be installed before the fifth pump comes online. KB9 5 ROW acquisitions rated a criticality of two. KB10 48-inch PCCP inspection and pig from the ground tank to US 421. KB11 48-inch PCCP repairs. KB10 and KB11 have been added this year.

The cost share projects now have CS, and the KB has been removed. CS1Intermediate booster pump station shelter has a criticality of three due to needing to protect existing pumps, and equipment from elements. CS2 Intermediate booster pump station upgrade has a criticality of three because US 421 area demands will exceed current 29MGD capacity in approximately 2037.CS3 New fifth pump at Kings Bluff raw water pump station has a criticality of three because decreasing load and run times of existing pumps will extend the life and improve all pumps' reliability. CS4 20 MG ground tank has a criticality of two for increasing the available system storage and providing a more consistent supply for the safe and efficient operation of the adjacent interim booster pump station. CS5 7-mile 48-inch Parallel raw water main from the ground tank to US 421. CS6 3-Mile 48-inch parallel raw water main from US 421 to the Cape Fear Public Utilities vault. CS7 100MGD Reservoir has a criticality of one due to increasing availability system for water storage, allows for temporary redundancy of supply in the case of an emergency (line break, power outage, hurricane). Director Zapple wanted to know if the projected raw water demands have been updated since 2018. Mr. Boahn advised the chart was last updated in 2022. Director Zapple wanted to know where the 18 million needed to complete these projects would come from, Executive Director Holloman stated we would have to finance those projects. Director Leonard wanted to know if the cost estimate was in today's dollars or has inflationary cost be accounted for. Tony Boahn confirmed the cost was in today's dollars.

Motion: Director Rivenbark **MOVED**; seconded by Director DeVane, approval to present Master Planning Review to the full board. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

DIRECTOR'S COMMENTS AND/OR FUTURE AGENDA ITEMS

No comments.

FUTURE MEETINGS

TBD

ADJOURNMENT

There being no further business, Chairman Blanchard adjourned the meeting at 8:53 a.m.

Respectfully Submitted:

Patrick DeVane, Secretary

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: 5/01/2023

SUBJECT: Monthly maintenance report for April 2023

Mr. Holloman,

The Maintenance and Operations of the king's bluff facility for the month of April 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 811 system.

KB personnel assisted Brunswick County in locating potential leak on waterline.

KB personnel oversaw the completion of fence at Northwest crossover.

KB personnel performed monthly operation of generator #1 & #2.

KB personnel prepared and painted the floor in pump room #1 & #2.

KB personnel changed the old oil reservoir for updated units on both pumps.

KB personnel replaced defective sump pumps.

KB personnel load tested crane after replacement of VFD drives.

Contractors:

Engineer system Inc. changed defective VFD drives on hoist in pump room #2.

C.C.I.R. & Lee Co maintenance came to bid on Right Of Way contract.

Roofing Contractors gave estimates of new roof on old building.

Pursuit Cleaning came to Kings Bluff office for bi-monthly cleaning.

Seegars hurricane fence installed fence around perimeter of crossover at Northwest Treatment Plant.

LJ's Landscaping cut grass at Kings Bluff pump station.

Thank you,

Gregory Lazorchak

Smithfield.

To: Tim Holloman - LCFWASA

From: James Kern - Bladen Bluffs SWTP ORC

Date: 5/3/23

Subject: April 2023 Operations

During the month of April, Bladen Bluffs SWTP operated a total of 19 days, treating 43.22 million gallons of water.

We used:

34,239 lbs. of aluminum sulfate (Alum)

9,058 lbs. of sodium hydroxide (Caustic)

1,109 lbs. of sodium hypochlorite (2,227 gallons of 6% Chlorine Bleach)

James Kern Water Treatment Plant Supervisor

(910) 862-3114 (910) 862-3146 (910) 733-0016 mobile <u>ikern@smithfield.com</u>



Bladen Bluffs Surface Water Treatment Plant 17014 Highway 87 West Tar Heel, NC 28392 www.smithfieldfoods.com

Monthly Operating Reports (MORs) Summary

(No user data entry – all values are auto-populated.)

Year:	2023	PWS Name:	Bladen Bluffs Water Sys	stem	Р	WSID# :	NC5009012
Month:	April	Facility Name:	Bladen Bluff		-		<u></u>
Combin	ed Filter Effluent (CFE)T	urbidity					
Sampl	es exceeding 1 NTU (count)	: 0	Number of	f samples req	uired:		95
Sampl	es exceeding .3 NTU (count): 0	Number of	f samples take	en:		96
Sampl	es exceeding .3 NTU (pct):	0.0%	Highest si	Highest single turbidity reading NTU		NTU:	0.130
			Monthly a	verage turbidi	ity NTU:		0.061
Individu	ual Filter Effluent (IFE) Tu	ırbidity					
1)	Was each filter continuous	y monitored for tur	bidity?	Yes	X	No	
2)	Was each filter's monitoring	g results recorded e	very 15 minutes?	Yes	X	No	
3)	Was there a failure of the c	ontinuous turbidity	monitoring equipment?	Yes		No	X
4)	Was any individual filter tu	rbidity level > 1.0 1	NTU in two consecutive		-	-	
	measurements ?			Yes		No	X
5)	Was any individual filter tu	rbidity level > 0.5 1	NTU in two consecutive			-	
	measurements at the end of	4 hours of operatio	on after the filter has been				
	backwashed or otherwise ta	ken offline?		Yes		No	X
6)	Was any individual filter tu	rbidity level > 1.0 1	NTU in two consecutive			•	
	measurements in each 3 con	nsecutive months?		Yes		No	X
7)	Was any individual filter tu	rbidity level > 2.0 f	NTU in two consecutive				
	measurements in 2 consecu	tive months ?		Yes		No	X
Entry P	oint Residual Disinfectant	Concentration (El	PRD)	-			
Disinf	ectant Used	Chlorine	Number of	f samples requ	uired		95
Minim	um EPRD concentration	1.0700	Number of	f samples take	en		96
Distribu	tion Residual Disinfectant	Concentration					
Numb	er of samples under 0.010 m	g/L (without any de	etectable) excluding where H	PC is $\leq 500/r$	nL		0
Contact	Time (CT) Ratio						
	t CT ratio reading	10.90	Number of	CT ratios rec	quired		19
Numbe	er of CT ratios below 1.0	0		CT ratios cal	-		19
Domosi	s From General Info Worl						
кетагк	s rrum General Into Worl	sneet					

V	By checking this box, the ORC certifies that the requirements of 15A NCAC 18C .1301 "General Requirements", .1302 "Tests, Forms, and
10.74	Reporting", and .1303 "Facility Oversight" have been met for the month of April, 2023 and that records documenting compliance with this rule
	are maintained on the premises and available for inspection upon request.

NCDENR/DEH PWSS	COMPLETED BY:	James Kern		
Version: V02.10-00	CERTIFICATE GRADE:	A - Surface	CERTIFICATE NUMBER:	120147

Bladen Bluffs SWTP Maintenance Report

Date: 5/3/2023

ISSUE:

PLAN OF ACTION:

Air on finished water line (from GAC)	Installed – closer to solving issue
All PLC need updated	Getting quotes
Found small leak in lagoon liner	Contractor has inspected
Clearwells Inspection	IN PROGRESS
Lost signal to three cameras at river	Fiber installed, splicing 5/5
Vault intrusion electrical needs sealed	Quote approved
Replacing all faded ARC Flash/safety outdoor labels	IN PROGRESS
Need new keypad/intercom system front gate	Temp. in place, IN PROGRESS for new
Install lights and camera at river	Quote approved
Few lights out on basin	Renting lift

LAW OFFICE OF MATTHEW A. NICHOLS

3205 Randall Parkway, Suite 104 Wilmington, NC 28403 Ph: (910) 508-7476 Email: matt@mattnicholslaw.com

May 2, 2023

Via email: director@lcfwasa.gov

Mr. Tim Holloman, Executive Director Lower Cape Fear Water and Sewer Authority 1107 New Pointe Blvd., Suite 17 Leland, NC 28451

Dear Tim:

This letter is written in response to your request regarding my representation of Lower Cape Fear Water and Sewer Authority (the "Authority") in fiscal year 2023-2024 and the anticipated cost of doing so.

I will be pleased to serve as general counsel for the Authority for fiscal year 2023-2024 if the Board of Directors wishes for me to continue in that capacity. I will do so at my existing hourly rate of \$195.00 per hour, and my paralegal's hourly rate will remain at \$75.00 per hour.

I anticipate the total charges for fiscal year 2023-2024 will be approximately \$15,000. This total estimated fee assumes only limited additional work with Authority easement matters. If additional work is required, the annual fee will be higher. If you need additional information, please contact me.

Respectfully submitted,

MR. Mins

Matthew A. Nichols

MN/nc

CONSENT AGENDA (CA6)

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 ADJUSTMEN	TS FOR 03/31/	2023	
Operating Fund:	Line-Item Budget Amount prior to Adjustment	Decrease	Increase	Budget Amount as of 03/31/2023
REVENUE				
EXPENSES 4059-01 Office Expense	\$ 16,000		\$ 1,500	\$ 17,500
4062-01 Office Equipment	\$ 12,000		\$ 3,000	\$ 15,000
4064-01 Printing & Advertising 4046-03 Engineer	\$ 6,500 \$ 245,041	\$ 5,500	\$ 1,000	\$ 7,500 \$ 239,541
Total	\$ 279,541	\$(5,500)	\$ 5,500	\$ 279,541

A RESOLUTION OF LOWER CAPE FEAR WATER & SEWER AUTHORITY EXEMPTING LOWER CAPE FEAR WATER & SEWER AUTHORITY FROM THE PROVISIONS OF N.C.G.S. §143-64.31

Whereas, N.C.G.S. §143-64.31 requires Lower Cape Fear Water & Sewer Authority (the "Authority") to conduct an initial selection of firms to provide engineering services without regard to fee; and

Whereas, N.C.G.S. §143-64.32 permits the Authority to exempt projects from the provisions of N.C.G.S. §143-64.31 in the case of proposed projects where the estimated professional fee is less than \$50,000.00; and

Whereas, the Authority proposes to enter into a contract with McKim & Creed, Inc. for engineering services as described hereinafter; and

Whereas, the estimated professional fee for the work to be done by McKim & Creed, Inc. in connection with such project is less than \$50,000.00; and

Whereas, the Authority by its execution of this resolution intends to waive the requirements of N.C.G.S. §143-64.31.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of Lower Cape Fear Water & Sewer Authority as follows:

- 1. Pursuant to N.C.G.S. §143-64.32 the Authority hereby exempts the following from the provisions of N.C.G.S. §143-64.32: McKim & Creed proposal for professional consulting engineering services to the Authority for FY 2024-2025
- 2. This Resolution shall be effective upon passage.

This Resolution was adopted on the 8th day of May 2023.

Norwood Blanchard, Chairman

ATTEST:

Patrick DeVane, Secretary



ENGINEERS

SURVEYORS

PLANNERS

April 13, 2023

231335

Mr. Tim Holloman, Executive Director Lower Cape Fear Water & Sewer Authority 1107 New Pointe Blvd Suite 17 Leland, NC 28451

Re: Proposal for Professional Consulting Engineering Services Lower Cape Fear Water & Sewer Authority FY 2024-2025 Annual Retainer Services

Dear Mr. Holloman:

McKim & Creed appreciates the opportunity to provide this proposal for professional consulting services for the fiscal year 2024-2025. This proposal is based on the project tasks as outlined below.

Task 1 – Monthly Authority Meetings

McKim & Creed will attend the Monthly meetings of the Authority and assist the Executive Director and Board of Directors by providing technical guidance and responding to general questions with respect to the Authority's facilities during the meetings. The standard service for this item will be \$250 per month (lump sum).

Task 2 – Technical Evaluations & On-Call Services

Frequently, the Authority receives requests for technical evaluations concerning their capabilities and capacity to meet the needs of its members or public and private entities within the five-county area (Bladen, Columbus, New Hanover, Pender, and Brunswick). At the request and direction of the Executive Director and the Board of Directors, McKim & Creed will provide technical evaluations or assistance for specific issues concerning the Authority's facilities and customers.

243 North Front Street

Wilmington, NC 28401

910.343.1048

Fax 910.251.8282

www.mckimcreed.com

Based on recent year's activities we recommend a not to exceed ceiling of \$10,000 for the 12-month period of service. We will provide such assistance to the Authority on an hourly not to exceed basis or fixed fee basis at the discretion of

K:\Water\Lower Cape Fear Water & Sewer Authority (LCFWSA)\231335_LCFWSA FY 2024-2025 Annual Retainer Services_Fee Proposal\231335 Proposal FY 2024-2025.doc

C7 B - 1

Mr. Tim Holloman, Executive Director Lower Cape Fear Water and Sewer Authority April 13, 2023 Page 2

the Executive Director and the Board of Directors. McKim & Creed will obtain approval from the Executive Director prior to commencing work on an item.

Task 3 – Kings Bluff Raw Water Facilities Annual Inspection Report

The consultant will review the activities related to the Authority's raw water pumping facilities for the Kings Bluff system and meet with the O&M Contractor's staff to prepare a summary report concerning current conditions and O&M conducted over the past fiscal year. This summary will constitute the Annual Inspection Report for the Authority for the Kings Bluff Raw Water Facilities.

Task 4 - Bladen Bluffs Water Treatment Facilities Annual Inspection Report

The consultant will review the activities related to the Authority's Bladen Bluffs Surface Water Treatment Facility, located in Tar Heel, NC. We will meet with plant operations staff to prepare a summary report concerning current conditions and O&M conducted at the facility over the past fiscal year. This summary will constitute the Annual Inspection Report for the Authority for the Bladen Bluffs Water Treatment Facilities.

Task 5 – Annual Master Plan Update

The consultant will prepare an update to the Fiscal Year 2019-2044 Master Plan. Primary tasks will include:

- Review current Master Plan projects and update year of occurrence and opinion of probable project costs.
- Remove/edit current Master Plan projects based on current needs of the Authority.
- Add additional Master Plan projects based on current needs of the Authority.
- Update Master Plan document for review and comment by Authority staff and Board of Directors
- Prepare Draft and Final Master Plan document in hard copy and electronic (PDF) format.
- Present updated Master Plan to the Authority's Board of Directors.

Mr. Tim Holloman, Executive Director Lower Cape Fear Water and Sewer Authority April 13, 2023 Page 3

Fee Summary

The following summarizes the fees proposed for this project.

Task	Fee Type	Annual Cost
1 - Monthly Assistance	\$250 Per Month	\$3,000
2 – Technical Evaluations	Hourly NTE	\$10,000
3 – Kings Bluff Annual Inspection	Fixed Fee	\$4,000
4 – Bladen Bluffs Annual Inspection	Fixed Fee	\$5,000
5 - Annual Master Plan Update	Fixed Fee	\$5,000
	Total Estimated Fees	\$27,000

Miscellaneous Conditions

- 1.5% per month on overdue invoices.
- Either party may terminate with a 30-day notice.

ACCEPTANCE AND AUTHORIZATION

If this proposal is acceptable, please sign below as indicated and return one executed copy to our office. Upon receipt, McKim & Creed will consider this as the authorization to proceed.

We appreciate the opportunity to provide these services and look forward to our continuing work with the Authority. If you have any questions, please do not hesitate to contact me.

Sincerely,

McKIM & CREED, Inc.

Tony Boahn, PE Vice-President

Enclosure:

McKim & Creed, Inc. Engineering Division General Conditions (01/2011-01)

K:\Water\Lower Cape Fear Water & Sewer Authority (LCFWSA)\231335_LCFWSA FY 2024-2025 Annual Retainer Services_Fee Proposal\231335 Proposal FY 2024-2025.Doc Mr. Tim Holloman, Executive Director Lower Cape Fear Water and Sewer Authority April 13, 2023 Page 4

Accepted by:

LOWER CAPE FEAR WATER & SEWER AUTHORITY

NAME: Norwood Blanchard

SIGNATURE:_____

TITLE: Chairman, Board of Directors

DATE:_____

E-Verify Requirement. As a condition of payment for services rendered under this agreement, Engineer shall comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes (requirement that employers use E-Verify). Further, if Engineer provides the services to the Client utilizing a subcontractor, Engineer shall require the subcontractor to comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes as well. Engineer shall verify by affidavit compliance with the terms of this section upon request of Client.

This instrument has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act, this the ____ day of _____, 2023

Finance Officer, Lower Cape Fear Water and Sewer Authority

K_Water\Lower Cape Fear Water & Sewer Authority (LCFWSA)\231335_LCFWSA FY 2024-2025 Annual Retainer Services_Fee Proposal\231335 Proposal FY 2024-2025.Doc

Billing and Payment. Invoices will be submitted by McKim & Creed, Inc. (the "Engineer") to the Client monthly for services performed and expenses incurred pursuant to this Agreement. Payment of each such invoice will be due upon receipt and considered past due if not paid within thirty (30) days of the date of the invoice. Any retainers shall be credited on the final invoice.

a) Interest. A service charge will be added to delinquent accounts at 18 percent per annum (1.5 percent per month).

b) Suspension of Services. If the Client fails to make any payment due the Engineer for services and expenses within thirty (30) days of the invoice date on the project(s) covered by this agreement or any other project(s) being performed by Engineer for Client, the Engineer may suspend services under this Agreement until it has been paid in full for all past due amounts owed by Client for services and expenses. The Engineer shall have no liability whatsoever to the Client for any costs or damages occurring as a result of such suspension caused by any such breach of this Agreement by Client.

c) Collection Costs. In the event legal action is necessary to enforce the payment provisions of this Agreement, the Engineer shall be entitled to collect from the Client any judgment or settlement sums due, reasonable attorneys' fees, court costs.

d) Termination Of Services. The failure of the Client to make payment to the Engineer in accordance with the payment terms set forth herein shall constitute a material breach of this Agreement and shall entitle the Engineer, at its option, to terminate the Agreement. Any material breach of this Agreement by the Client shall, at the Engineer's option and in its sole discretion, constitute a breach of and default under any and/or all other agreements between the Client and Engineer.

Confidentiality. The Engineer agrees to keep confidential and not to disclose to any person or entity, other than the Engineer's employees, sub-consultants and the general contractor and subcontractors, if appropriate, any data and information not previously known to and generated by the Engineer or furnished to the Engineer and marked CONFIDENTIAL by the Client. These provisions shall not apply to information in whatever form that comes into the public domain, nor shall it restrict the Engineer from giving notices required by law or complying with an order to provide information or data when such order is issued by a court, administrative agency or other authority with proper jurisdiction, or if it is reasonably necessary for the Engineer to defend itself from any suit or claim.

The Client agrees that the technical methods, techniques and pricing information contained in any proposal submitted by the Engineer pertaining to this project or in this Agreement or any addendum therete, are to be considered confidential and proprietary, and shall not be released or otherwise made available to any third party without the express written consent of the Engineer.

Consequential Damages. Notwithstanding any other provision of the Agreement, neither party shall be liable to the other for any consequential damages incurred due to the fault of the other party, regardless of the nature of the fault or whether it was committed by the Client or the Engineer, their employees, agents, sub-consultants or subcontractors. Consequential damages include, but are not limited to, loss of use and lost profit.

Non-Contingency. The Client acknowledges and agrees that the payment for services rendered and expenses incurred by the Engineer pursuant to this Agreement is not subject to any contingency unless the same is expressly set forth in this Agreement. Payments to the Engineer shall not be withheld, postponed or made contingent on the financing, construction, completion or success of the project or upon receipt by the Client of offsetting reimbursement or credit from other parties causing Additional Services or expenses. No withholdings, deductions or offsets shall be made from the Engineer's compensation for any reason.

Opinions of Cost.

(a) Since the Engineer has no control over the cost of labor, materials, equipment or services furnished by others, or over methods of determining prices, or over competitive bidding or market conditions, any and all opinions as to costs rendered hereunder, including but not limited to opinions as to the costs of construction and materials, are estimates only and shall be made on the basis of its experience and qualifications and represent its best judgment as an experienced and qualified professional engineer, familiar with the construction industry; but the Engineer cannot and does not guarantee that proposals, bids or actual costs will not vary from opinions of probable cost prepared by it and the Engineer shall have no liability whatsoever if the actual cost differs from the Engineers estimate. If at any time the Client wishes greater assurance as to the amount of any cost, Client shall employ an independent cost estimator to make such determination. Engineering services required to bring costs within any limitation established by the Client will be paid for as additional services hereunder by the Client.

Termination. The obligation to provide further services under this Agreement may be terminated by either party upon seven (7) days' written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party. In the event of any termination, the Engineer shall provide a final statement of charges due and will be paid for all services rendered to the date of termination, all expenses subject to reimbursement hereunder, and other reasonable expenses incurred by the Engineer as a result of such termination. In the event the Engineer's compensation under this Agreement is a fixed fee, upon such termination the amount payable to the Engineer for services rendered will be determined using a proportional amount of the total fee based on a ratio of the amount of the work done, as reasonably determined by the Engineer, to the total amount of work which was to have been performed, less prior partial payments, if any, which have been made.

Reuse of Documents. All documents, including but not limited to drawings and specifications, prepared by the Engineer pursuant to this Agreement are related exclusively to the services described herein. They are not intended or represented to be suitable for reuse by the Client or others on extensions of this project or on any other project. Any reuse without written verification or adaptation by the Engineer for specific purposes intended will be at the Client's sole risk and without liability or legal exposure to the Engineer. The Client releases the Engineer harmless from all claims that the Client may have against the Engineer and arising out of any unauthorized reuse.

Limitation of Liability. In performing its professional services hereunder, the Engineer will use that degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of its profession practicing in the same or similar locality. No other warranty, express or implied, is made or intended by the Engineer's undertaking herein or its performance of services hereunder. THE CLIENT UNDERSTANDS AND AGREES THAT THE ENGINEER HAS NOT MADE AND IS NOT MAKING ANY PROMISE, WARRANTY OR REPRESENTATION EXCEPT THE WARRANTIES EXPRESSLY MADE HEREIN, AND THE ENGINEER EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER IMPLIED WARRANTIES. Under no circumstances shall the Engineer be liable for extra costs or other consequences due to changed conditions or for costs related to the failure of the contractor or material men to install work in accordance with the plans and specifications. The Engineer shall not be liable for errors in judgment-or for any loss or damage, which occurs for any reason beyond the control of the Engineer. No action may be instituted hereunder more than one-year-after the cause of action accrued or should have been discovered by reasonable diligence. The provisions of this paragraph shall survive the termination of this Agreement.

Controlling Law. This Agreement is to be governed by the law of the State of North Carolina. The parties agree that any suit or action related to this Agreement shall be instituted and presecuted in the courts of the County of Wake, State of North Carolina, and each party waives any right or defense relating to such jurisdiction or vonue.

Binding Effect. This Agreement shall bind, and the benefits thereof shall inure to the respective parties hereto, their legal representatives, executors, administrators, successors and permitted assigns.

Merger; Amendment. This Agreement constitutes the entire agreement between the Engineer and the Client with respect to its subject matter, and all negotiations and oral understandings between the parties are merged herein. This Agreement can be supplemented and/or amended only by a written document executed by both the Engineer and the Client.

Ownership Of Instruments Of Service. All reports, plans, specifications, field data, notes and other documents, including all documents on electronic media, prepared by the Engineer as instruments of service shall become the property of the Owner. The Owner shall retain all common law, statutory and other reserved rights, including the copyright thereto. If the Owner uses any reports, plans, specification, field data, notes or other documents ("documents") for any project other than the specific project for which the documents were intended, then Owner waives any claims for damages related to these other projects.

Photographs. Photographs of any completed project embodying the services of the Engineer provided hereunder may be made by the Engineer and shall be considered as its property, and may be used by it for publication.

Assignment. Neither party to this Agreement shall transfer, sublet or assign any rights under or interest in this Agreement, including but not limited to fees that are due or fees that may be due, without the prior written consent of the other party.

Archiving of Project Documentation. Engineer shall maintain copies of printed project documentation for a period of three years from substantial completion of Engineer's services. Engineer shall maintain copies of all electronic media related to the project for a period of one year from substantial completion of Engineer's services. Requests for reproduction of project documentation after these periods have expired will be considered additional services and will be invoiced at the Engineer's prevailing hourly rates at the time of the request, plus expenses.

Betterment. If, due to the Engineer's error, any required item or component of the project is omitted from the Engineer's construction documents, the Engineer shall not be responsible for paying the cost to add such item or component to the extent that such item or component would have been otherwise necessary to the project or otherwise adds value or betterment to the project. In no event will the Engineer be responsible for any cost or expense that provides betterment, upgrade or enhancement of the project.

Electronic Files. Because data stored on electronic media can deteriorate undetected or be modified without the Engineer's knowledge, the Client agrees that it will accept responsibility for the completeness, correctness, or readability of any electronic media delivered to the Client after an acceptance period of 30 days after delivery of the electronic files, and that upon the expiration of this acceptance period, Client will release, indemnify and save harmless the Engineer from any and all claims, losses, costs, damages, awards or judgments arising from use of the electronic media files or output generated from them. The Engineer agrees that it is responsible only for the printed and sealed drawings and documents, and if there is a conflict between these printed documents and the electronic media, the sealed documents will govern. Engineer makes no warranties, express or implied, under this agreement or otherwise, in connection with the Engineer's delivery of electronic files.

Certifications, Guarantees and Warranties. The Engineer shall not be required to sign any documents, no matter by whom they may be requested, that would result in the Engineer's having to certify, guarantee or warrant the existence of conditions which the Engineer cannot ascertain. The Client also agrees that it has no right to make the resolution of any dispute with the Engineer or the payment of any amounts due to the Engineer in any way contingent upon the Engineer's signing any such certification.

Corporate Protection. It is intended by the parties to this Agreement that the Engineer's services in connection with the project shall not subject the Engineer's individual employees, officers or directors to any personal legal exposure for the risks associated with this project. Therefore, and notwithstanding anything to the contrary contained herein, the Client agrees that as the Client's sole and exclusive remedy, any claim, demand or suit shall be directed and/or asserted only against the Engineer, a North Carolina corporation, and not against any of the Engineer's employees, shareholders, officers or directors.

Job-Site Safety. Neither the professional activities of the Engineer, nor the presence of the Engineer or its employees and sub-consultants at a construction site, shall relieve the General Contractor and any other entity of their obligations, duties and responsibilities including, but not limited to, construction means, methods, sequence, techniques or procedures necessary for performing, superintending or coordinating all portions of the Work of construction in accordance with the contract documents and any health or safety precautions required by any regulatory

agencies. The Engineer and its personnel have no authority to exercise any control over any construction contractor or other entity or their employees in connection with their work or any health or safety precautions. The Client agrees that the General Contractor is solely responsible for job-site safety, and warrants that this intent shall be made evident in the Client's agreement with the General Contractor. The Client also agrees that the Client, the Engineer and the Engineer's consultants shall be indemnified and shall be made additional insured under the General Contractor's general liability insurance policy. The Client, upon written request of the Engineer, agrees to use its best efforts to add the Engineer as an additional insured on the contractor's general liability and auto liability policies.

Scope of Services. Services not set forth as Basic Services or Additional Services and listed in this Agreement are excluded from the scope of the Engineer's services and the Engineer assumes no responsibility to perform such services.

Severability And Survival. Any provision of this Agreement later held to be unenforceable for any reason shall be deemed void, and all remaining provisions shall continue in full force and effect. All obligations arising prior to the termination of this Agreement and all provisions of this Agreement allocating responsibility or liability between the Client and the Engineer shall survive the completion of the services hereunder and the termination of this Agreement.

Shop Drawing Review. If included in the scope of services to be provided, the Engineer shall review and approve Contractor submittals, such as shop drawings, product data, samples and other data, as required by the Engineer, but only for the limited purpose of checking for conformance with the design concept and the information expressed in the contract documents. This review shall not include review of the accuracy or completeness of details, such as quantities, dimensions, weights or gauges, fabrication processes, construction means or methods, coordination of the work with other trades or construction safety precautions, all of which are the sole responsibility of the Contractor. The Engineer's review shall be conducted with reasonable promptness while allowing sufficient time in the Engineer's judgment to permit adequate review. Review of a specific item shall not indicate that the Engineer has reviewed the entire assembly of which the item is a component. The Engineer shall not be responsible for any deviations from the contract documents not brought to the attention of the Engineer in writing by the Contractor and approved by the Engineer. The Engineer shall not be required to review partial submissions or those for which submissions of correlated items have not been received.

Specification Of Materials. The Client understands and agrees that products or building materials, which are permissible under current building codes or ordinances may, at some future date, be banned or limited in use in the construction industry because of presently unknown hazardous characteristics. The Client agrees that if the Client directs the Engineer to specify any product or material, after the Engineer has informed the Client that such product or material may not be suitable or may embody characteristics that are suspected of causing or may cause the product or material to be considered a hazardous substance in the future, the Client waives all claims as a result thereof against the Engineer. The Client further agrees that if any product or material specified for this project by the Engineer shall, at any future date be suspected or discovered to be a health or safety hazard, the Client hereby releases the Engineer from any and all

liabilities and waives all claims against the Engineer relating thereto.

Standard Of Care. Services provided by the Engineer under this Agreement will be performed in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances in the same geographic area.

Suspension Of Services. If the project is suspended for more than thirty (30) calendar days in the aggregate, the Engineer shall be compensated for services performed and charges incurred prior to such suspension and, upon resumption of services, the Engineer shall be entitled to an equitable adjustment in fees to accommodate the resulting demobilization and re-mobilization costs. In addition, there shall be an equitable adjustment in the project schedule based on the delay caused by the suspension. If the project is suspended for more than ninety (90) calendar days in the aggregate, the Engineer may, at its option, terminate this Agreement upon giving notice in writing to the Client.

Unauthorized Changes To Documents. In the event the Client consents to, allows, authorizes or approves of changes to any plans, specifications, construction documents or electronic media, and these changes are not approved in writing by the Engineer, the Client recognizes that such changes and the results thereof are not the responsibility of the Engineer. Therefore, the Client releases the Engineer from any liability arising from the construction, use or result of such changes. In addition, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Engineer harmless from any damage, liability or cest (including reasonable attorneys' fees and costs of defense) arising from such changes.

Compensation for Additional Services. The undertaking of the Engineer to perform professional services under this Agreement extends only to those services specifically described herein. If upon the request of the Client, the Engineer agrees to perform additional services hereunder, the Client and the Engineer shall negotiate and agree upon an additional fee to be paid to the Engineer for completion of the agreed upon Additional Services. The Engineer will be under no obligation to begin or complete requested Additional Services until the additional fee has been negotiated and agreed upon in writing by the Client and the Engineer.

Hourly Billing Rates. All services to be billed on an hourly basis under this agreement will be billed using the Engineer's prevailing billing rate schedule at the time services are provided. If a specific rate schedule is to be used for this Agreement, it shall expire no later than one year from the date of this Agreement and will be replaced with the prevailing rate schedule in effect at that time.

Priority Over Form Agreements. The parties agree that the provisions of this Agreement shall control and govern over any Work Orders, Purchase Orders or other documents, which the Client may issue to Engineer in regard to the project(s) which is (are) the subject of this Agreement. The Client may issue such documents to Engineer for its convenience for accounting or other purposes, but any such Orders will not alter the terms of this Agreement, regardless of any contrary language appearing therein.

Paragraph Headings. The paragraph headings contained in this Agreement are for reference purposes only and shall not affect in any way the meaning or interpretation of this Agreement.

Third Parties. Nothing in this Agreement shall be construed as giving any person, firm, corporation or other entity other than the parties to this Agreement and their respective successors and permitted assigns, any right, remedy or claim under or in respect of this Agreement or any of its provisions.

Default. The Client shall be in default under this Agreement if (i) it fails to pay in full any invoice from the Engineer on the due date or fails to make any other payment due to the Engineer under this Agreement, (ii) it fails to observe or perform any other term, condition or covenant under this Agreement, (iii) it breaches any warranty or representation made under this Agreement, (iv) it dissolves, terminates or liquidates its business, or its business fails or its legal existence is terminated or suspended, (v) any voluntary or involuntary bankruptcy, reorganization, insolvency, receivership, or other similar proceeding is commenced by or against the Client, or (vi) it becomes insolvent, makes an assignment for the benefit of creditors, or conveys substantially all of its assets.

Design Without Construction Phase Services. If the services to be provided by Engineer hereunder do not include construction observation and/or construction administration services, or if such services are included in Engineers contracted services and Client later decides to perform these services itself or decides to retain other consultants or individuals to perform these services, Engineer assumes no responsibility for interpretations of the Engineer's services or for any construction observation, construction administration and/or supervision performed by Client or other parties and Client waives any and all claims against Engineer for any losses, claims, costs or damages of any kind whatsoever that may be in any way connected thereto.

In addition Client agrees, to the fullest extent permitted by law, to indomnify and hold Engineer hamless from any loss, claim, damage or cest, including reasonable attorneys' fees and cests of defense, arising or resulting from the performance of construction observation, construction administration and/or supervision by Client, its employees, agents or consultants, and including any and all claims arising from the modification or adjustment of, or any clarifications or interpretations of, the Engineer's Work by others.

Unless, in the Engineer's sole opinion, appropriate levels of construction observation and construction administration services are contracted for and performed by Engineer, Engineer will not be responsible to provide any engineering or other certifications related to the construction or installation of any improvements.

Reliance on Data Provided by Others. Engineer shall be entitled to reasonably rely on the accuracy of information provided to it by Client or any of Client's other consultants or sub-consultants. Engineer shall not be responsible to extensively review the information provided to insure the accuracy thereof. Client agrees to not hold Engineer responsible for errors or omissions in Engineer's work that are directly attributable to errors or incorrect data provided to Engineer by Client or Client's other consultants. Client further acknowledges that any redesign or corrective efforts required by Engineer resulting from incorrect information provided by Client or Client's other consultants will be paid for by the Client as additional services. **Credit and Financial Obligations.** Prior to commencement of the work, Engineer may require that Client provide reasonable credit information and other documentation to confirm that the Client has made financial arrangements to fulfill the Client's payment obligations under this Agreement. Engineer may also require such information at any time during the performance of Engineer's services should the Client fail to make payments per this Agreement, a change in the scope materially changes the contract sum, or Engineer identifies in writing a reasonable concern regarding the Client's ability to make payment when payment is due. The Client may be required to furnish this information prior to further commencement or continuation of services by Engineer and Engineer shall not be responsible for the cost of any delay occurring as a result of such a request.

Markup on Expenses. Unless specified otherwise in our proposal, all sub consultant costs and other project related costs incurred by Engineer will be billed with a 15% markup. Company vehicle mileage and internal reproduction costs will be billed at the Engineer's prevailing rate for those items. Personal vehicle mileage costs incurred on the project by employees of Engineer will be billed at the prevailing IRS mileage rate in effect at the time of travel.

SUE Technical Standards. Quality Level A information obtained by direct exposure of the existing utilities can greatly increase the level of confidence with respect to the location of underground utilities at a particular jobsite. Utility exposure (Quality Level A) permits three-dimensional measurements to be taken on utilities for accurate location at each test hole. The overall level of confidence with respect to the location of site utilities can be raised by increasing the number of test holes examined; however, Engineer provides no guarantee of the location of utilities on the site other than at the locations where test holes have been established.

Quality Level B services include the horizontal, above ground detection, marking and mapping of underground utilities. Geophysical prospecting methods are used to indicate the presence and surface position of buried utilities. Utilities are identified and marked in the field in order to be surveyed and mapped. Quality Level B information should not be used for construction purposes, or where exact horizontal and vertical measurements are required.

The accuracy of Quality Level B designating information and depth of cover readings obtained by utilizing Geophysical and Ground Penetrating Radar equipment and techniques are subject to field and soil conditions beyond our control. Engineer will make reasonable efforts to provide comprehensive and correct positional utility marks to the limits obtainable by the instrumentation used and the existing ground conditions; however, Engineer provides no guarantee that all existing utilities on a particular site will be properly located using these methods.

Utilizing Engineer's SUE services does not relieve any party from their obligation to contact the utility damage prevention system before digging begins. Utility marks placed on the ground by Engineer are not to be used for construction purposes.

INSURANCE. Engineer shall take out and maintain during the life of this Contract the following insurance:

- a. Statutory Workers Compensation insurance;
 b. Comprehensive General Liability insurance in an amount of \$1,000,000.00 for each occurrence and \$2,000,000.00 aggregate;
- c. Automobile Insurance in an amount of \$1,000,000.00

Client shall be named as an additional insured on the Comprehensive General Liability and Automobile insurance policies. Prior to commencing work, Engineer shall provide evidence that the required insurance is in place. Each policy shall provide that Client shall receive not less than thirty days prior written notice of any cancellation, non-renewal or reduction of coverage of any of the policies.

Public Hearing

AGENDA ITEM

To: CHAIRMAN BLANCHARD AND BOARD MEMBERS

From: TIM HOLLOMAN, EXECUTIVE DIRECTOR

Date: May 8, 2023

Re: Public Hearing Prior to Approval of the Fiscal Year 2023 – 2024 Budget and Budget Ordinance

Please find enclosed for consideration of approval, appropriations for the listed funds for the operation of the Authority for the Fiscal Year beginning July 1, 2023, and ending June 30, 2024.

Public Hearing: In accordance with North Carolina General Statute Section 159-12 (b), prior to adopting the budget ordinance, the Board shall hold a public hearing at which time any persons who wish to be heard on the budget may appear. Legal notice of the public hearing on the budget was published on April 19th, 26th, and May 3rd, 2023, in Star-News and on the Authority's web page.

Written public comment regarding the Fiscal Year 2023-2024 Budget may be submitted to Executive Director Holloman at <u>director@lcfwasa.gov</u> until 4:30 p.m. on June 2nd.

- A. Operating Fund Appropriations in the Amount of \$11,768,590
- B. Operating General Fund Appropriations in the Amount of \$2,651,578
- C. Enterprise Fund/Capital Project Fund Appropriations in the Amount of \$380,837
- D. Renewal and Replacement Appropriations Fund in the Amount of \$342,474
- E. Right of Way Fund Appropriations in the Amount of \$281,450

Motion to Open Public Hearing

1. A motion is made by _______to open a public hearing on the FY 2032-2024 Budget.

2. The motion is seconded by _____.

Motion to Close Public Hearing

- 1. A motion is made by _______to close the public hearing.
- 2. The motion is seconded by _____.

Executive Director Holloman will briefly review the recommended budget as recommended by the Finance Committee

Action Requested: No action is required at this time. The Budget is being presented for consideration of approval/disapproval on June 5, 2023, at 9:00 a.m.

NEW BUSINESS (NB1)

Lower Cape Fear Water & Sewer Authority

AGENDA ITEM

To: CHAIRMAN BLANCHARD AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: May 8, 2022

Re: FY 2023-2024 Draft Fiscal Year Budget

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

Background: The Finance Committee has met and reviewed drafts since March and recommend the FY 2023-2024 Budget as presented during the Public Hearing for consideration for approval on June 5th, 2023.

Action Requested: For information purposes.

ANNUAL BUDGET

Fiscal Year 2023 - 2024



LOWER CAPE FEAR WATER & SEWER AUTHORITY 1107 NEW POINTE BLVD., SUITE 17 LELAND, NORTH CAROLINA 28451

AUTHORITY BOARD OF DIRECTORS

NORWOOD BLANCHARD, CHAIRMAN HARRY KNIGHT, VICE CHAIRMAN PATRICK DEVANE, SECRETARY PHIL NORRIS, TREASURER AL LEONARD, ASSISTANT TREASURER WAYNE EDGE JACKIE NEWTON SCOTT PHILLIPS CHARILE RIVENBARK BILL SAFFO CHRIS SMITH WILLIAM SUE FRANK WILLIAMS ROB ZAPPLE PENDER COUNTY NEW HANOVER COUNTY BLADEN COUNTY BRUNSWICK COUNTY COLUMBUS COUNTY BLADEN COUNTY PENDER COUNTY BRUNSWICK COUNTY CITY OF WILMINGTON CITY OF WILMINGTON COLUMBUS COUNTY BRUNSWICK COUNTY BRUNSWICK COUNTY

TIM HOLLOMAN, EXECUTIVE DIRECTOR DANIELLE HERTZOG, ADMINISTRATIVE ASSISTANT

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BRUNSWICK COUNTY KINGS BLUFF O&M BUDGET
OPERATIONS CAPITAL BUDGET
FIVE YEAR CAPITAL IMPROVEMENT PLAN

June 5, 2023

Norwood Blanchard and Directors:

I am pleased to present the FY 2023-2024 Budget for the Lower Cape Fear Water and Sewer Authority for your review and consideration. The enclosed FY 23-24 Budget has been prepared in accordance with the North Carolina General Statute 159 Article 3, entitled "*The Local Government Budget and Fiscal Control Act.*"

The Public Hearing on the annual budget was held during the regularly scheduled monthly meeting of the Authority Board at 9:00 AM on Monday, May 8, 2023, in the conference room of the Authority's offices located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina.

Legal notice of the public hearing on the budget was published on April 19, April 26, and May 3, 2023, in accordance with the General Statutes.

The Authority's annual budget outlines the revenues that the Authority expects to receive during the fiscal year and outlines the expenditures expected to be made during the fiscal year. The core business of the Authority is providing raw water from the Cape Fear River to the Authority's customers. The Authority also continues to work with Smithfield Foods in the operation of the Bladen Bluffs Regional Water Treatment Plant.

The region served by the Authority continues to be one of the fastest-growing regions in the nation. The counties served by the Authority have increased in population from 456,941 in 2010 to an estimated population of 545,634 in 2022. This represents a 20% increase in the number of people served by the Authority's customers.

FY 22-23 ACCOMPLISHMENTS

The second VFD was replaced in 2022 at \$266,000.

An aerial crosswalk was completed on the existing 48" line for accessibility and safety for \$271,247.18.

Funds were secured to work on paralleling the next 7 miles of 48" line past the Northwest Plant.

The Owners' advisor and Design-Build team were selected to design and construct this seven-mile section of line.

June 5, 2023

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CAPITAL IMPROVEMENT PLAN ALIGNED WITH RATES

The Authority continues to align the CIP to be supported by adequate rates to stabilize various funds and levels to anticipate unexpected emergencies and long-term needs. A Long-Range Planning Committee will work with the anticipated Cost of Service project consultant to establish policy on rates aligned with the needs for construction, refurbishment, or expansion. A cost-of-service study was completed this year.

FISCAL YEAR 2023-2024 FUND DESCRIPTION

The Authority has five funds that it maintains. The funds and their purposes are as follows:

BLADEN BLUFFS OPERATING FUND

While the Authority owns the Bladen Bluffs Regional Water Treatment Plant and is responsible for the debt associated with the plant's construction, Smithfield Foods operates the facilities and pays all costs related to the facility's operation, including the debt service. The Authority receives the bills related to the facility's operation, pays the vendors, then submits a consolidated statement to Smithfield Foods monthly per the December 19, 2009, Agreement.

The debt service principal for the Bladen Bluffs Regional Water Treatment Plant for FY 23-24 is \$970,000, to be paid in December 2023. The interest rate on the remaining principal is variable, and it is estimated that \$450,000 in interest will be paid based on current interest rates.

In FY 23-24, expenditures by Smithfield on the operation of the Bladen Bluffs Regional Water Treatment Plant are expected to be \$5,038,603.

The Authority charges approximately 30% of the personnel costs and direct costs to Smithfield in recognition of personnel's work performed on Bladen Bluffs Regional Water Treatment Plant-related issues such as accounts payable, accounting of expenditures, and management of capital projects. Smithfield pays its proportionate share of other direct costs, such as insurance and audits.

KINGS BLUFF OPERATING FUND

REVENUES

In FY 23-24, the projected water revenues reflect an increase of 11% over the FY 22-23 projections. The projected water demand for FY 23-24 is 9.38 billion gallons

or 25.69 million gallons per day (mgd). By Board approval, the raw water rate increases in FY 23-24 to \$0.4000 per 1,000 gallons. This rate and the projected flow will generate \$3,912,487 in operating revenue.

EXPENDITURES

The Authority owns the Kings Bluff Raw Water Pump Station and associated transmission system. While the Authority contracts with Brunswick County for the daily operation of the station, the Authority is responsible for paying for several direct costs associated with station operation, such as electric charges from Duke Energy, fuel costs related to the main generators, debt service on capital improvements, and significant capital expenditures for repairs of station equipment.

In FY 23-24, costs associated with the Operations and Maintenance by Brunswick County are recommended to increase from \$549,822 to \$696,990. The increase is due to salary, benefits, and right-of-way maintenance.

In FY 23-24, the cost of operating the Kings Bluff Pump Station is \$4,023,460. This year, the Operating Fund will transfer \$380,000 to Renewal and Replacement and \$100,000 to the Enterprise Fund. \$1,286,360 in capital funds will be expended for various projects.

RENEWAL AND REPLACEMENT FUND

The purpose of this fund is to pay the cost of equipment that needs to be replaced at the Kings Bluff Pump Station. In FY 23-24, this fund will have no appropriations because the balance is \$342,473.84. An anticipated transfer from the Operational Fund of \$380,000 will bring the R & R fund up to \$722,473.84 by the end of FY 23-24. Over ten years, the projected balance should be \$5,000,000 at a minimum. This needs to be adjusted to a smaller window to arrive at this amount in five years instead of the projected 10-year window.

ENTERPRISE FUND

The Enterprise Fund is the primary source of funds for capital projects and major repairs. No projects are budgeted for this fund in FY 23-24. A Capital Project Ordinance will be approved if the need for an additional project arises in FY 23-24. The balance of this fund is \$380,836.92. Over ten years, the projected balance should be \$10,000,000 at a minimum. \$100,000 was transferred to this fund in FY 22-23, and an additional \$100,000 will be transferred in FY 23-24. Annual

allocations to this fund need to be in the range of \$400,00 to \$500,000 annually to reach 50% of the projected need.

RIGHT OF WAY FUND

The Right of Way Maintenance Fund was funded by a developer and will be used to repair the roadway constructed with the Authority's easement in Brunswick County. We do not anticipate any expenditure from this fund in FY 22-23.

CONCLUSION

I want to thank the Finance Committee and the Board for their support and recognition of the resources needed to keep the Authority moving forward. I would also like to express special appreciation to our Financial Administrative Assistant for her attention to detail with Authority funds. Emergency preparedness is a focal point for our Board of Directors, who are working to make sure the entire length of the raw water pipeline is redundant, allowing customers peace of mind regarding supply. In addition, enhancing the Authority's Financial position is a critical factor in fulfilling capital obligations to our partners and the communities they serve. Furthermore, planning to accommodate future growth and promoting business retention and recruitment to the Cape Fear Region is a top concern for the Board.

Respectfully Submitted,

Tim H. Holloman Executive Director



BUDGET ORDINANCE FY 2023-2024 Lower Cape Fear Water & Sewer Authority

BE IT ORDAINED by the Governing Board of the Lower Cape Fear Water & Sewer Authority:

Section 1: The following amounts are hereby appropriated in the **Operating Fund** for the operation of the Authority and its activities for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

APPROPRIATIONS	
Administration	\$977,979
Operating Expenses	
Sales Tax Expense	100,000
Operating Capital Expense	1,286,360
Bladen Bluffs Expense	3,324,385
Utilities/Energy – Kings Bluff Pump Station	786,589
O&M Expense – Kings Bluff	686,749
Transfer to R&R - Kings Bluff R&R Expense	380,000
Transfer to Enterprise	100,000
Series 2010 Revenue Bond-Principal Expense (BB)	970,000
Series 2010 Revenue Bond-Interest Expense (BB)	450,000
SRF/ARPA	2,500,000

TOTAL APPROPRIATIONS _____\$11,562,063

Section 2: It is estimated the following revenues will be available in the **Operating General Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

REVENUES	
Operating Revenues	
Brunswick County	\$1,725,765
Cape Fear Public Utility Authority	1,652,562
Pender County	234,160
Hwy 421	200,000
Praxair	100,000
Bladen Bluffs Revenue	4,938,603
Bladen Bluffs Admin Reimbursement	110,473
Sales Tax Refund	100,000
Non-Operating Revenues	
Interest	500
Other Revenue	0
Bladen Bluffs FEMA Admin Reimbursement	0
Renewal and Replacement Fund Appropriated	0
SRF/ARPA	2,500,000
TOTAL REVENUES	\$11,562,063

Section 3: The Board of Directors of the Lower Cape Fear Water & Sewer Authority hereby establishes a raw water rate of \$0.4000 per 1,000 gallons as of July 1, 2023, for raising the necessary revenue to balance the appropriations noted in Section 1.

Section 4: The following amount is hereby appropriated in the **Operating General Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

APPROPRIATIONS	
Operating General Fund – Appropriated for Future Expenditures	\$ 2,651,578
TOTAL APPROPRIATIONS	\$ 2,651,578

Section 5: It is estimated the following revenue will be available in the **Operating General Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

REVENUES	

Operating General Fund - Fund Balance	\$ 2,651,578
TOTAL ESTIMATED REVENUES	\$ 2,651,578

Section 6: The following amount is hereby appropriated in the **Enterprise Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

APPROPRIATIONS

Enterprise Fund - Reserve for Future Expenditures	\$ 380,837
TOTAL APPROPRIATIONS	380,837

Section 7: It is estimated the following revenue will be available in the **Enterprise Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

TOTAL ESTIMATED REVENUES	\$ 380,837
Enterprise Fund - Fund Balance Appropriated	\$ 380,837
REVENUES	

Section 8: The following amounts are hereby appropriated in the **Renewal and Replacement Fund (R&R)** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

APPROPRIATIONS	
R&R - Reserve for Future Expenditures	\$ 342,474
R&R - Kings Bluff R&R Expense	380,000
TOTAL APPROPRIATIONS	\$ 722,474

Section 9: It is estimated the following revenues will be available in the **Renewal and Replacement Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

REVENUES

R&R - Fund Balance Appropriated	\$ 342,474
Transfer In from Operating Fund	380,000

	Item NB1
TOTAL ESTIMATED REVENUES	\$ 722,474

Section 10: The following amount is hereby appropriated in the **Right of Way Maintenance Fund** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

APPROPRIATIONS	
Right of Way Fund - Reserve for Future Expenditures	\$ 281,450
TOTAL APPROPRIATIONS	\$ 281,450

Section 11: It is estimated the following revenue will be available in the **Right of Way Maintenance Fund (ROW)** for the fiscal year beginning July 1, 2023, and ending June 30, 2024:

REVENUES

ROW - Fund Balance Appropriated	\$ 281,450
TOTAL ESTIMATED REVENUES	\$ 281,450

Section 10: Copies of this Budget Ordinance shall be furnished to the Finance Officer to be kept on file for direction in the disbursement of funds. This budget acknowledges and approves any transfers between funds expected as revenue from one fund or account specifically in reference to the Bladen Bluffs Administrative transfers as reflected in this budget and any funds in associated Kings Bluff Funds, including the Revenue and Replacement Fund, Enterprise Fund, and Right of Way Fund.

Adopted this 5th day of June 2023

Norwood Blanchard, Chairman

ATTEST:

Patrick DeVane, Secretary

LOWER CAPE FEAR WATER AND SEWER AUTHORITY FISCAL YEAR 2023-2024 BUDGET

ACCOUNT NO	REVENUES	FY 21-22 APPROVED BUDGET	FY 21-22 ACTUALS	FY 22-23 AMENDED BUDGET	FY 22-23 ACTUAL 04/30/2023	PROPOSED FY 23-24 BUDGET	23-24 BUDGET	FY 23-24 TOTAL COMBINED BUDGET
						KINGS BLUFF	BLADEN BLUFFS	
	OPERATING							
3001-01	Brunswick County	\$ 1,690,091	\$ 1,818,755	\$ 1,606,437	\$ 1.683.452	\$ 1.725.765	\$	\$ 1.725.765
3002-01	Cape Fear Public Utility Authority	\$ 1,296,405	—	\$ 2,869,315	\$ 2,762,273			
3003-03	Pender County	\$ 179,822	\$ 189,434	\$ 551,428	\$ 515,455	\$ 234,160 \$		\$ 234.160
3004-01	Stepan/Invista	\$ 70,000	\$ 101,260	\$ 141,566	s	\$ 200,000	- \$	\$ 200,000
3005-01	Praxair, Inc	\$ 4,314	\$ 2,503	\$ 61,179	\$ 66,223	\$ 100,000		\$ 100,000
3006-01	Bladen Bluffs Reimbursement for Plant Operation Costs	\$ 3,894,127		\$ 4,673,818	\$ 4,255,084	\$	\$ 4,938,603	\$ 4.938.603
3006-02	Bladen Bluffs Administrative Reimbursement	\$ 126,302	\$ 127,002	\$ 102,190	s	110,473		\$ 110,473
3007-01	Sales Tax Refund	\$ 90,000	\$ 55,833	\$ 100,000	\$ 114,314	- \$	\$ 100,000	\$ 100,000
1. 4 S. 1	Subtotal \$	\$ 7,351,061	\$ 7,528,048	\$ 10,105,933	\$ 9,700,180	\$ 4,022,960	\$ 5,038,603	\$ 9,061,563
	0							•
3105-01	Interest	\$ 2,000	\$ 1,921	\$ 500	\$ 151	\$ 500	\$ -	\$ 500
3120-01	Other Revenue (Insurance Proceeds/Refunds/FEMA)		\$ 2,978	\$	\$ 12,229	\$	¢.	•
3125-01	Federal Tax Subsidy	\$ -	\$ -	- \$	÷ .	- \$	· .	• \$
3156-00	Rental House Income	\$ -	\$ 15,550	•	\$ 13,361			-
3170-01	Transfer In	\$	\$	- 5	•	- \$	- 5	
3900-01	Renewal and Replacement Fund Appropriated	\$ -		, \$	•	5	•	•
3900-02	SRF/ARPA				二、 「二、 二、 二			\$ 2.500.000
2900-00	Fund Balance Appropriated	\$ 391,253	\$	•	- \$	-		
	Subtotal	\$ 393,253	•	\$ 500	\$ 25,740	\$ 500	· ·	\$ 2,500,500
	TOTAL REVENUES	\$ 7,744,314	7,744,314 \$ 7,528,048	\$ 10,106,433	\$ 9,725,920 \$ 4,023,460 \$	\$ 4,023,460	5,038,603	\$ 11,562,063

LOWER CAPE FEAR WATER AND SEWER AUTHORITY FISCAL VEAR 2023-2024 RUDGET

ACCOUNT NO.	TEXPENDITURES	APP BU BU	FY 21-22 APPROVED BUDGET	FY 21-22 ACTUALS	FY 22-23 Amended Budget	FY 22-23 ACTUAL 04/30/2023	PROPOSED FY	PROPOSED FY 23-24 BUDGET	FY 23-24 TOTAL COMBINED BUDGET
	Administration						KINGS BLUFF	BLADEN BLUFFS	
4001-01	Salaries	s	188,610	\$ 165.791	5 187 024	\$ 149.701	150 505 2		
4010-01	Per Diem and Mileage Board Members	s	-	-			~ ~	600'TO 6	
4012-01	Vehicle Alfowance	s	4	5 200		2 0	2 0	-	
4019-01 8,4024-01			+	17 116		~ ~	~ ~		
4029-01	Retirement	s	1	18.655			~ ~		
4035-01	401K Plan	S		4 782		01101 C	¢ 18,30/		
4036-01	Miscellaneous Payroll Expenses	s	-	2.630		~~~	876'/ ¢	5 3,394	
4038-01	Group Insurance	5		27 141		~ ~			
4039-01	Property and Liability Insurance	~~~		21V 28					
4046-00	Professional Services General		1.00	17110		22,248			
4046-01	Attorney	n u	-						
4047-01	Auditor	~ •		15,596	4		\$ 35,000	\$ 15,000	\$ 50,000
10 000	Former	s	-	8,200	\$ 9,000	\$ 5,400	\$ 5,600	\$ 2,400	\$ 8,000
10-0404	crigineer	s		41,947	\$ 245,041	\$ 149,737	\$ 275,000	\$ 25,000	Ĩ
10-5504	Information Lechnology	s	13,800 \$	12,638	\$ 14,000	\$ 1,333	\$ 11,200	\$ 4,800	\$ 16.000
4055-01	Office Maintenance/Repair/Common Charge	s	32,000 \$	18,601	\$ 23,903		\$ 24,000		
4058-01	Office Utilities	s	3,000 \$	1,856	\$ 5,000	\$ 1,600			
4059-01	Office Expenses (telephone, Printing, Adv)	Ş	26,300 \$	14,134	\$ 16,000		14.000		
4062-01	Office Equipment	Ş	12,500 \$	10,975	\$ 12,000	\$ 14.748	\$ 10,000		
4064-01	Printing and Advertising	Ş	2,000 \$	1,997	6.500				
4065-01	Telephone and Internet	s	3,200 \$				000'0		
4070-01	Travel and Training	s	-	22.237			000 00		
4070-20	Phone Allowance	s	1000	520			000/62		29,000
4075-01	Vehicle Expense	s					200		070
4080-01	Miscellaneous Expense	s	23.000 \$	18.084 5	23.000	¢ 18.718	000.00		
	Subtotal			564,221	~	9	783,762	\$ 194,218	977,979 S
4501-01	Salas Tav Evnance								
10.101			÷	130,777		\$ 87,704	Ş	100,000	\$ 100,000
10-01-01			2,775,091 \$	2,775,091 \$	3,315,596	\$ 2,742,958		3,324,385	\$ 3,324,385
4515-01	Bladen Bluffs Hurricane Florence	s			•	s .	•		
4520-01	Utilities/Energy Kings Bluff	s	699,667 \$	698,525 \$	730,336	\$ 599,221	\$ 786,589		\$ 786.589
4530-01	Contract O & M Kings Bluff	s	453,609 \$	437,634 \$	549,822	\$ 358,284	686,749		
4537-01	O&M Kings Booster Pump Bluff Pump Station	Ş	- 5	· ·			•		
4541-01	Combined Enterprise Funded Series 2010 Principal	Ş	- 5	\$ -	,				
4542-01	Combined Enterprise Funded Series 2010 Interest	Ş	-		•				
4543-01	Combined Enterprise System Ref Series 2012 Principal	S	601,443 \$	601,444 \$					
4544-01	Combined Enterprise System Ref Series 2012 Interest	Ş	11,730 \$	11,728		· ·			
4545-01	Bladen Buffs Debt Service Principal	s	850,000 \$	850,000 \$	910,000	\$ 910,000		970,000	S 970.000
4546-01	Bladen Buffs Debt Service Interest	s	297.500 \$	48 580	356 009				

LOWER CAPE FEAR WATER AND SEWER AUTHORITY FISCAL YEAR 2023-2024 BUDGET

					1-742								
	Operating Capital Expense	\$ 71	716 253 5	222 202	v	7 010 010				ŀ			
1000 00	Trucket and the second		222	000,000	n	< 200'0+0'7	\$	< T99,812,2	1,286,360	~	,	S	1.286.360
CD-026+	I LEADSTEP TO K&K - Kings Bluft R&R Expense	\$ 19	192,380 5	192.380	S	250.000		150.000 6	000 000	-		•	000/000/2
4998-06	Transforth Entransies Final					0001001	,	¢ 000'00T	000,000	4		~	380,000
		\$	<u>ہ</u>		Ś		~	100 000 \$	100 000	v			
10-10001	A21 Polocitica Alcontractica Contractica C				ŀ		,	+ 1 000'00T	000,001	ĥ		^	100,000
10-1-07	1+21 REIOLATION NEW HAROVER LOUNTY LOAN PRINCIPAL	S 39	390.000 5	390.000	~	258 835		300 030		•			
	CPE/7 mile control line concerning				-	00000		100,003		2		~	
										_		Ļ	
					╞			-		-		^	2,500,000
	Subtotal	s	7.118.450 S	6.729.515	~	9 217 656 C		7 772 CO7 C	1 002 055 5	•	100 100 1	Ļ	
						2022/144/2		e 100'011'	060/667/6	¢	4,044,385	^	10,584,083
	I UTAL EXPENDITURES	\$ 7,799,694	694 \$	7,293,736	Ś	10,106,433	\$ 8.4	8.430.975	4.073.460	v	5 038 603	v	5 038 603 ¢ 11 567 062
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Kaw Water Customer				FLOWS	VS			
							FY 23-24	
	FY 21	FY 21-22 Actual	FY 22-2	FY 22-23 Projected	FY 22-23 Actual		Projected	
					(as of 04-30-2022)			
Brunswick County		5,510,004		4,486,245	4,676,256		4,314,412	
CFPUA		4,011,322		4,090,500	3,704,346		4,131,405	
Pender County		574,585		571,360	476,888		585,400	
Stephan		306,849		221,162	348,675		500,000	
Praxair		7,585		5,819	19,830		250,000	
		10,410,345		9,375,086	9,225,995		9,781,217	
Raw Water Customer				DEVENILIES	1100			
					013		FY 23-24	
	FY 21.	FY 21-22 Actual	FY 22-2	FY 22-23 Projected	FY 22-23 Actual		Projected	
					(as of 04-30-2022)	_		
RATE PER 1,000 GALLONS	Ş	0.3300	Ş	0.3600	\$ 0.3600	Ś	0.4000	
Brunswick County	\$	1,818,301	Ş	1,615,048	\$ 1,683,452	Ś	1,725,765	
CFPUA	10-	1,323,736	Ş	1,472,580	\$ 1,333,565	ŝ	1,652,562	
Pender County	\$	189,613	Ş	205,690	\$ 171,680	Ś	234,160	
Stepan	Ş	101,260	Ş	79,618		ŝ	200,000	
Praxair	\$	2,503	Ş	2,095	\$ 7,139		100,000	
0,	Ş	3,435,414	Ş	3,375,031	\$ 3,321,358	Ŷ	3,912,487	
KINGS BLUFF EXPENSES								
ADMINISTRATION			ŝ	783,762				
OPERATING INCLUDING DEBT SERVICE	Ю		Ş	3,239,698				
TOTAL EXPENSES			Ŷ	4,023,460				
KINGS BLUFF REVENUES								
WATER SALES BASED ON CURRENT RATE	RATE		Ş	3,912,487				
OTHER REVENUES			Ś	139,263				
TOTAL REVENUES			Ş	4,051,750				

lTY	: USE JUNE 30. 2024	00 GALLONS	Cumulative Total	521,284,746.6	00 985,994,526.6	37 1,429,057,365.3			3 2,333,421,155.3	
BRUNSWICK COUNTY	PROJECTED WATER USE FOR JULY 1, 2023 THROUGH JUNE 30, 2024	WATER RATE OF \$0.40 / 1,000 GALLONS	Estimated Usage	521,284,746.67	464,709,780.00	443,062,838.67	384,818,203.33	271,023,413.33	248,522,173.33	225.645.550.00
	FOR JUL	WATER		23		nber	_	ber	ber	y 2024

Month	Estimated Usage	Cumulative Total
July 2023	521,284,746.67	521,284,746.67
August	464,709,780.00	985,994,526.67
September	443,062,838.67	1,429,057,365.33
October	384,818,203.33	1,813,875,568.67
November	271,023,413.33	2,084,898,982.00
December	248,522,173.33	2,333,421,155.33
January 2024	225,645,550.00	2,559,066,705.33
February	212,146,236.73	2,771,212,942.06
March	239,445,738.59	3,010,658,680.65
April	347,426,833.54	3,358,085,514.20
May	489,895,412.78	3,847,980,926.98
June	466,431,203.53	4,314,412,130.51
TOTAL	4,314,412,130.51	
		Annual Revenue
Annual Daily Average:		\$ 1,725,764.85

PROJECTED WATER USE FOR JULY 1, 2023 THROUGH JUNE 30, 2024 WATER RATE OF \$0.40 / 1,000 GALLONS CAPE FEAR PUBLIC UTILITY AUTHORITY

Month	Estimated Usage	Cumulative Total
July 2022	293,788,800.00	293,788,800.00
August	303,989,800.00	597,778,600.00
September	327,452,100.00	925,230,700.00
October	322,351,600.00	1,247,582,300.00
November	250,944,600.00	1,498,526,900.00
December	368,256,100.00	1,866,783,000.00
January 2023	423,341,500.00	2,290,124,500.00
February	379,477,200.00	2,669,601,700.00
March	439,663,100.00	3,109,264,800.00
April	410,080,200.00	3,519,345,000.00
May	322,351,600.00	3,841,696,600.00
June	289,708,400.00	4,131,405,000.00
TOTAL	4,131,405,000.00	
		Annual Revenue
Annual Daily Average:	11,318,917.81	\$ 1.652.562.00

PENDER COUNTY

PROJECTED WATER USE FOR JULY 1, 2023 THROUGH JUNE 30, 2024 WATER RATE OF \$0.40 / 1,000 GALLONS

Month	Estimated Usage	Cumulative Total
July 2022	53,280,000.00	53,280,000.00
August	52,680,000.00	105,960,000.00
September	50,200,000.00	156,160,000.00
October	50,460,000.00	206,620,000.00
November	46,480,000.00	253,100,000.00
December	47,930,000.00	301,030,000.00
January 2023	46,980,000.00	348,010,000.00
February	43,100,000.00	391,110,000.00
March	45,520,000.00	436,630,000.00
April	46,530,000.00	483,160,000.00
May	50,740,000.00	533,900,000.00
June	51,500,000.00	585,400,000.00
TOTAL	585,400,000.00	
		Annual Revenue
Annual Daily Average:	1,603,835.62	\$ 234,160.00

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Employee	ď	Adopted FY 22-23	Proposed FY 23-24	Not	Notes
Executive Director Administrative Assistant Part-Time	ላ ላ ላ	Salary 123,420.00 \$ 53,604.00 \$ 10,000.00 \$	131,442.30 57,088.26 15.000.00	4% COLA/2.5% Merit 4% COLA/2.5% Merit	
	Ş		5		
Board Per Diem and Mileage	Board \$	62,500.00 \$	64,001.40		
Executive Director	~~	FICA 10 552 41 5	11 738 37	A 55 % of Salari	
Administrative Assistant	÷ «∧ ·				
Part-Time Board Members	\$	855.00 \$ 3,550.95 \$	1,282.50 3,550.95	8.55% of Salary 8.55% of Salary	
	Ŷ	19,541.50 \$	20,952.81		
		Retirement			
Executive Director	Ş		~	12.85%	
Part-Time	ι, γ				
Autilitier Assistant	ሉ ላኦ	1,201.00 <u>\$</u> 22,461.58 \$	26,153.68		
		Health Insurance	uce		
Executive Director	Ŷ	19,037.00 \$	20,088.00		
Administrative Assistant	s	19,037.00 \$	20,088.00		
	Ş	38,074.00 \$	40,176.00		
		401 K Contribution	tion		
Executive Director Administrative Assistant	ሉ ሉ	3,702.60 \$ 1,608.12 \$	7,886.54 3,425.30	6.0% of the salary 6.0% of the salary	
	Ś	5,310.72 \$	11,311.83		

BOARD MEMBER COST

Board Member Salaries and Mileage Reimbursement

Salary for Board Member per meeting	ŝ	300
Salary for Chairman Per Board Meeting	Ŷ	330
Total Salary Costs	\$ 50,	50,760.00 Based upon 12 meetings per year
Current Board Total Mileage		875
Current IRS Mileage Rate	Ŷ	0.655 per mile
Total Mileage Cost Per Year	\$ 6,	6,877.50
Total for Budget	\$ 57	57,637.5
Round to \$50,000 increase of committee meetings outside of normal meetings	etings outsid	e of normal meetings
Social Security	Ŷ	3,883
Breakfast \$ 206.73 per month \$		2,480.76

64,001.4

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BLADEN BLUFFS ADMINISTRATIVE COST CALCULATION

Employee	Allocation				Bladen Bluffs
		SALARY	¢.	121 442 20	Allocation
Executive Director Administrative Assistant			\$	131,442.30	
			\$ \$ \$	57,088.26	
Part Time			\$	15,000.00	
			Ş	203,530.56	\$61,059.17
Board Per Diem, Mileage and Ex	pense			\$64,001.40	\$19,200.42
		VEHICLE & C	ELL PH	ONE ALLOWANCE	
Executive Director - Vehicle				\$5,200.00	
Executive Director - Cell phone				\$520.00	
				\$5,720.00	\$1,716.00
		FICA			
Executive Director				\$11,238.32	
Administrative Assistant				\$4,881.05	
Part Time				\$1,282.50	
Board Members				\$3,550.95	
				\$20,952.81	\$6,285.84
		RETIREMEN	г		
Executive Director			•	\$16,890.34	
Part Time				\$1,927.50	
Administrative Assistant				\$7,335.84	
				\$26,153.68	\$7,846.10
		401K			
Executive Director				\$7,886.54	
Administrative Assistant				\$3,425.30	
				\$11,311.83	\$3,393.55
		HEALTH INSU	JRANCE		
Executive Director				\$20,088.00	
Administrative Assistant				\$20,088.00	
				\$40,176.00	\$12,052.80

\$

371,846.28 \$111,553.89

BLADEN BLUFFS ADMINISTRATIVE COST CALCULATION CONTINUED

ATTORNEY	\$ 15,000
ENGINEER	\$ 25,000
AUDITOR	\$ 2,400
INFORMATION TECHNOLOGY	\$ 4,800
ADMINISTRATIVE COST FROM FIRST SHEET	\$ 111,554
	\$ 158,754
INSURANCE PROPERTY & LIABILITY	
Total cost of Property and Liability Insurance is \$94,301	
Bladen Bluffs share is	
based upon percent	\$ 31,120
Total Annual Admin Cost	\$ 189,874

Bladen Bluffs Budget FY 2023-24	FY 2023-24
Sales Tax	\$100,000.00
Administrative LCFWASA	\$110,000.00
Administrative General	\$62,000.00
Audit	\$2,800.00
Insurance	\$27,500.00
Professional Services	\$98,000.00
Professional Services Engineering	\$30,000.00
Postage	\$810.00
Training	\$1,500.00
Computer/IT	\$32,000.00
Fuel Diesel	\$29,000.00
Fuel Gas	\$10,000.00
Equipment Rental	\$90,000.00
Utilities Water	\$1,000.00
Building Maintenance	\$4,400.00
Grounds Maintenance	\$340.00
Equipment Maintenance	\$250,000.00
Departmental Supplies	\$1,650,253.00
Departmental Supplies/Parts	\$170,000.00
Lab Expenses	\$122,000.00
Permitting	\$140,000.00
Environmental/Livestock Safety	\$17,000.00
Land Application	\$275,000.00
Capital Expense	\$40,000.00
Capital Reserve Vehicle	\$12,000.00
Capital Reserve Scada	\$52,000.00
Capital Reserve GAC	\$360,000.00
Capital Reserve Water and Well	\$148,000.00
Debt Service Principal	\$970,000.00
Debt Service Interested	\$450,000.00
Total	\$5,255,603.00

Department	Department Name: LCFWS Department Code: 617150	Department Name: LCFWSA - Reimb Department Code: 617150				COUNT Fiscal	COUNTY OF BRUNSWICK Fiscal Year 2024 Budget	ISWICK budget		
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% Change from PY Approved

5.3% 59.9% 87.1% Salaries and Wages

Operating Expenditures Repair and Maint Capital Outlay

n/a

Item NB1

617150 617150

OPERATING FUND CAPITAL EXPENDITURES AND TRANSFERS

EQUIPMENT TO BE REPLACED	REPI	REPLACEMENT COST
REPLACE ROOF ON 1984 SECTION OF PLANT	Ś	130,000
VFD COMPONENT REPLACEMENT		
VTR PUMP/INSPECT REFURBISH	Ś	275,000
NEW BOWL ASSEMBLY	Ŷ	250,000
ANTI VORTEXING	Ś	50,000
ELEVATED WALKWAY		
UPDATE RATE STUDY	Ŷ	10,000
row acquisition	Ś	100,000
MATCHING SRF FUNDING		
FOURTH PUMP	Ş	225,000
WALKWAY REPLACMENT AND AIR BACKWASH		\$226,360
MISCELLANEOUS	Ś	20,000
TOTAL	Ŷ	\$ 1,286,360

LOWER CAPE FEAR WATER AND SEWER AUTHORITY 5 YEAR CAPITAL IMPROVEMENT PLAN

\$88,532,110.00 77,700,000.00 533,750.00 400,000.00 225,000.00 125,000.00 275,000.00 1,045,000.00 200,000.00 110,000.00 300,000.00 1,576,360.00 282,000.00 2,000,000.00 700,000.00 35,000.00 3,025,000.00 FY 2026 PROJECT TOTALS ŝ ŝ ŝ ŝ ŝ ŝ ŝ ŝ 5 ŝ < 50,000.00 \$3,170,000.00 320,000.00 800,000.00 2,000,000.00 . S Ś Ś S Ś S S Ś ŝ \$ Ś Ś \$22,600,000.00 225,000.00 17,500,000.00 FY2025 700,000.007 200,000.00 125,000.00 350,000.00 50,000.00 100,000.00 2,000,000.00 1,350,000.00 ŝ ŝ ŝ ŝ Ś s S ŝ ŝ s s S ŝ ŝ ŝ 0.4 35,200,000.00 50,000.00 225,000.00 226,360.00 130,000.00 FY 2024 275,000.00 150,000.00 10,000.00 100,000.00 250,000.00 36,616,360.00 Ś ŝ S ŝ S ŝ S v Ś ŝ S Ś 0.36 FY2023 50,000.00 16,031,875.00 266,875.00 150,000.00 100,000.00 100,000.00 15,000,000.00 200,000.00 100,000.00 30,000.00 35,000.00 0 \$10,463,875.00 \$ s S S S Ś Ś S 3 Ś 0.33 FY2022 266,875.00 10,000,000.00 75,000.00 122,000.00 s ŝ S S S S S S S Ś Ś ŝ REBUILD EXISTING HIGH SERVICE PUMP MOTORS/INSPECT WALKWAY REPLACEMENT AND AIR BACKWASH BUILDING INTERMEDIATE BOOSTER PUMP STATION SHELTER **TRANSFER TO RENEWAL AND REPLACEMENT** 48" PARALLEL LINE LAST 10 MILE SECTION PIG 48" WATER MAIN TO CFPUA/PENDER VEHICLE REPLACEMENT/ARGO/FORKLIFT **REPLACE GENERATOR RADIATORS** TRANSFER TO ENTERPRISE FUND **TOTALS KINGS BLUFF PROJECTS** PURCHASE BOWL ASSEMBLY INDEPENDENT RATE STUDY KINGS BLUFF CIP PROJECTS ROW MAINTENANCE **ROW ACQUISTIONS** ANTI VORTEXING SCADA UPGRADE **ROW CLEARING** SURVEYING VTR PUMP 4TH PUMP VFD

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NEW BUSINESS (NB2)

Lower Cape Fear Water & Sewer Authority

AGENDA ITEM

To: CHAIRMAN BLANCHARD AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: May 8, 2022

Re: Resolution to Award Design Build Contract

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

The Design-Build team recommends awarding the contract to Garney, Inc and McKim and Creed. This is the next step in moving forward with design and permitting.

We have worked with the evaluation team, CFPUA, and our Owner's Advisor HDR, to arrive at the scope and recommendation to approve.

Action Requested: Motion to Approve or Disapprove

Lower Cape Fear Water and Sewer Authority Resolution to Approve Design-Build Contract Team of Garney Companies, Inc. and McKim & Creed, Inc.

WHEREAS, on October 10, 2022, the Lower Cape Fear Water and Sewer Authority ("LCFWASA") Board of Directors ("Board") passed a Resolution authorizing a phased parallel raw water line project, subject to appropriate funding (the "Project"); and,

WHEREAS, N.C.G.S. § 143-128.1A(b) allows a governmental entity to establish criteria used for determining when the design-build method is appropriate for a project; and,

WHEREAS, on December 12, 2022, the Board passed a Resolution establishing criteria for a design-build delivery method for the Project and authorizing the Executive Director to move forward with the design-build delivery method for the project; and,

WHEREAS, LCFWASA issued a Request for Qualifications ("RFQ") for design-build firms setting forth qualifications and evaluation criteria, and LCFWASA received three RFQ responses from qualified design-builders; and,

WHEREAS, LCFWASA's design-build evaluation committee evaluated the three RFQ responses received and ranked the qualifications of the design-builders in accordance with the established evaluation criteria; and,

WHEREAS, LCFWASA's design-build evaluation committee ranked the design-build team of Garney Companies, Inc. and McKim & Creed, Inc. as the highest ranked under the established evaluation criteria; and,

WHEREAS, LCFWASA wishes to award the design-build contract to the design-build team of Garney Companies, Inc. and McKim & Creed, Inc. as the highest-ranked design-build team; and,

WHEREAS, LCFWASA's design-build evaluation committee has worked with LCFWASA's Owner-Advisor HDR to arrive at a scope of work, and the preliminary design-build agreement includes a preconstruction cost of \$1,736,100.

NOW, THEREFORE, BE IT RESOLVED, by the Chairman and LCFWASA Board of Directors, that LCFWASA does hereby award the design-build contract for the Project to the design-build team of Garney Companies, Inc. and McKim & Creed, Inc. subject to compliance with all State and Federal funding requirements and receipt of payment from participating entities.

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 May 2023.

Norwood Blanchard, Chairman

ATTEST:

Patrick DeVane, Secretary

Task 100 – Preliminary Engineering Report (PER)

An evaluation of the proposed project components will be completed to determine detailed project parameters. A Preliminary Engineering Report (PER) will be developed to identify the proposed project design elements. The PER will be developed in accordance with the NC Division of Water Infrastructure Guidelines.

 Hydraulic Modeling/Capacity Analysis – Hydraulic modeling will be conducted to evaluate various pipe diameters, resultant available capacities and pressures. McKim & Creed will coordinate with LCFWSA customers to compile updated raw water demands and required delivery pressures for incorporation in the modeling analysis. Hydraulic analysis will be based pipeline alignment from the Ground Tank to CFPUA's Meter Vault located on Hwy 421.

Scenarios are anticipated to include:

- a) Capacity of the existing 48-inch PCCP operating alone, with and without the intermediate booster pump station.
- b) Capacity of the new parallel main operating alone, with and without the intermediate booster pump station. It is anticipated that pipe diameters will be evaluated for 48-inch and 54-inch for the new parallel main.
- c) Capacity of the existing 48-inch PCCP and the new parallel main operating in parallel, with and without the intermediate booster pump station.

Recommendations for the final pipeline diameter and potential future intermediate booster pump station capacity will be incorporated as part of the hydraulic modeling analysis. With these recommendations we will provide a cost opinion.

- <u>Pipe Material Analysis</u> An analysis of commercially available pipe materials will be conducted to determine cost effectiveness and feasibility for the proposed pipeline. Factors will include but not limited to:
 - Material costs
 - Robustness and applicability to raw water service
 - O&M considerations
 - Repair costs and challenges
 - Construction costs and challenges

For the purposes of this scope of work, the following materials will be included in the evaluation:

- Steel Pipe
- Ductile Iron Pipe (DIP)

• High Density Polyethylene (HDPE) (For Horizontal Directional Drilling if required)

The pipe materials noted above will be screened and ranked for feasibility and applicability for the proposed project. A portion of project funds may be utilized from a State Revolving Fund (SRF) earmark. SRF American Iron and Steel requirements will be taken into consideration for the pipeline material evaluation.

- 3) <u>Routing Evaluations</u> It is anticipated that the majority of the proposed raw water main will be located in or adjacent to the existing LCFWSA easement. As part of the PER, McKim & Creed will develop a routing analysis to identify potential challenges and issues related to the existing available easements and where additional easements will be required. A recommended, preliminary routing map will be developed to assist in the final routing of the main. Cost considerations will be included in route evaluation. All federal (ARPA/SRF) requirements for adherence to Uniform Relocation Assistance and Real Property Acquisitions Act will be met.
- 4) <u>LCFWSA 75-Foot Easement</u> Previous survey work performed by McKim & Creed identified and staked the existing easement along the project route. Approximately 17,000 linear feet of the existing easement is only 40' in width and will require additional easements to be obtained for the parallel pipeline to be installed. McKim & Creed will review the current easement to determine where additional easements may be required for permanent construction. In addition to permanent easements, Garney/McKim & Creed will identify potential areas that temporary access and/or construction easements may be required for the project. A graphical exhibit and draft easement exhibits will be prepared utilizing the McKim & Creed survey data to indicate where additional easement would be required.
- 5) DAK Industries Conservation Easement for the purposes of this scope of work, it is assumed that the new pipeline can be constructed without approval from the NC Coastal Land Trust, who maintains conservation easements in the project vicinity. We will evaluate the conservation easements as part of the PER and determine if additional approvals or measures are required to install the new pipeline in the existing LCFWSA easements.
- 6) <u>Corrosion Control Evaluation</u> For ferrous pipe materials or materials that may be subject to corrosion, an evaluation of corrosion control measures will be completed. Recommendations for corrosion control specific to the proposed transmission main will be provided in the PER. McKim & Creed and subconsultant Maggart will contact Piedmont Natural Gas (PNG), Duke Energy, and DAK industries as part of this evaluation to determine potential corrosion issues resulting from construction of the proposed main within the vicinity of existing facilities. This will include required protective measures for stray currents for the gas pipeline systems,

overhead electrical transmission lines, etc. Maggart will visit the site to measure soil resistivity and evaluate potential locations of test stations and AC (alternating current) mitigation facilities. Findings from the field investigations will be provided in the PER.

- 7) Strategic Interconnections with Existing 48-Inch PCCP Hydraulic modeling will be conducted to determine logical and/or strategic locations to interconnect the new pipeline with the existing 48-inch raw water main. Modeling will be conducted to determine achievable capacities with the interconnections and with various segments of the respective pipelines out of service. Recommendations for the location of interconnections and isolation valves provided. Additionally, the following connections/configurations will be identified and recommended:
 - Pig launcher and pig retriever facilities for the new pipeline
 - Dual connection for Pender County meter
- 8) <u>Maintenance of Operations</u> The new parallel main will be required to be on-line and operational prior to installation of the interconnections described above in this scope of work. Garney/McKim & Creed will evaluate sequences of construction to place the new raw water main in-service while maintaining continual service to customers. A proposed strategy for maintaining operations will be included in the PER.
- 9) Water Body & Wetland Crossings Preliminary review of the project route indicates approximately 3 water body/wetlands and the Cape Fear River will be impacted by construction of the parallel raw water main. As part of the PDM process, McKim & Creed and subconsultant Davey Group will consult with the US Army Corps of Engineers and CAMA representatives to determine permitting requirements for the respective crossings. As part of the PER process, we will request consideration for 'open-cut' of these areas where feasible in lieu of trenchless installations based on the anticipated costs impacts of trenchless construction. A recommendation for each crossing will be provided in the PER.
- 10) <u>NCDOT Roadway Crossings</u> Preliminary review of the project indicates approximately 2 NCDOT roadway crossings. McKim & Creed will contact the respective NCDOT governing offices and determine the permitting process to acquire an encroachment agreement for the proposed project. Based on review of the two crossings, McKim & Creed anticipates trenchless construction of both crossings will be required.
- 11) <u>Power Line Easements</u> A large portion of the existing easement parallels a major overhead power transmission line. The proposed pipeline alignment crosses the transmission line in at least two areas. We will consult with the power utility to

determine crossing requirements, separation from structures, etc. and provide recommendations as pertinent to the PER.

- 12) <u>Permitting and Regulatory Requirements</u> Based on the proposed route and project scope, permitting, and anticipated regulatory agency requirements will be identified in the PER.
- 13) Environment Management Plan (EMP) A portion of the pipeline easement runs through a former DAK industries site that has several landfills and environmental releases. S&ME will prepare an EMP as part of the PER. For the EMP, S&ME will download and review additional files from the NCDEQ Laserfiche website. S&ME will also request McKim Creed to try to acquire environmental site information from people associated with the former DAK facility environmental SWMU operations. S&ME will develop a list of potential materials and compounds that may be encountered during construction. Material handling and disposal requirements will be determined. Discussions with NCDEQ will be conducted if required.

S&ME will prepare the EMP, which will be incorporated in the PER and include the following primary components:

- a) Site operations and environmental data history in areas of proposed water line installation.
- b) Site map showing potential environmentally impacted areas overlain with the proposed waterline installation location.
- c) Potentially contaminated media handling and disposition for soil, groundwater, surface water, sediment and/or soil vapor.
- d) Field screening and monitoring requirements.
- e) Disposal requirements for various media.
- f) Contingency to manage unknown or potential new sources of contamination (e.g. buried drums).
- 14) <u>Workshop Meetings McKim & Creed will conduct workshop meetings with project partners during development of the PER document to discuss findings and recommendations. Minutes of each workshop will be provided. This scope of work assumes two (2) workshop meetings will be required.</u>

During our kick-off workshop we recommend including a lessons learned discussion on previous 54" Parallel Transmission Main with all project stakeholders.

Task 200 – Geotechnical and Environmental Investigations

McKim & Creed will subcontract with S&ME, Inc. to provide geotechnical and environmental soil investigations. Services will include:

- 1) Field Services
 - a) <u>Land Borings</u> Will be performed utilizing a drill rig mounted on a track carrier. Twenty-five (25) Standard Penetration Test (SPT) borings spaced strategically throughout the alignment to a target depth of 10 feet each. Borings will be advanced to the target depth, or until auger difficulty, whichever occurs first. In addition, at each of the four (4) HDD pit locations, we will perform a Standard Penetration Test (SPT) boring to a target depth of 25 feet each. Borings will be advanced to the target depth, or until auger difficulty, whichever occurs first.
 - b) <u>Marsh Borings</u> Using a marsh buggy to gain access to the river approaches. Six (6) Standard Penetration Test (SPT) borings to a target depth of 10 feet each. Borings will be advanced to the target depth, significant water loss occurs in the underlying limestone formation or 50 blow per 1 inch material is encountered, whichever occurs first.
 - c) <u>River Borings</u> Using a drilling barge to gain access. Six (6) Standard Penetration Test (SPT) borings to a target depth of 25 feet below the mudline elevation. Borings will be advanced to the target depth, significant water loss occurs in the underlying limestone formation or 50 blow per 1 inch material is encountered, whichever occurs first.
- 2) Laboratory Testing S&ME will plan to perform the following laboratory testing on selected representative samples. These samples are planned to be obtained at intervals of every 10 to 15 feet in depth to assist with the HDD information:
 - a) Up to 40 grain size analyses with fines content testing
 - b) Up to 40 natural moisture content tests
 - c) Up to 40 Atterberg limits plasticity tests
 - d) Up to 2 Standard Proctor Tests
 - e) Up to 20 Organic Content Tests
- 3) Engineering Analysis and Report At the completion of the field exploration and laboratory testing, S&ME will perform geotechnical engineering analysis and prepare a geotechnical engineering report, which will include:
 - a) A brief description of our sampling and testing procedures, as well as our field and laboratory test data, including the boring logs and a test location sketches.
 - b) A discussion of our findings, including a brief overview of the site surface conditions observed and a description of the subsurface soil stratigraphy observed. Our discussion will include water level depths measured in the borings at the time of boring, if water is encountered.

c) General considerations regarding excavations and recommended lateral earth pressure coefficient parameters for conventional excavations at bore pits.

Note that Task 2 will commence concurrently with preparation of the PER detailed in Task 1. Preliminary information obtained from geotechnical investigations will be utilized in preparing Task 1 (as available) and revisited as part of the 30% Design Submittal outlined in Task 3.

Task 300 - Design Phase Services

Design Phase services will be based upon the recommendations of the PER and with the concurrence of the Partners. Major tasks that will be accomplished for the Design Phase of the project are detailed as follows:

30% Design

- Aerial and Conventional Field Surveys Survey work will be performed to the Standards of Practice for Land Surveying in North Carolina. Horizontal survey control will be referenced to NC Grid NAD 83 or otherwise specified. Vertical survey control will be referenced to NAVD88 or otherwise specified. General topography for the 7-mile route will be collected utilizing LIDAR technology and will provide 1-foot contour level accuracy. McKim & Creed will provide ground control for the LIDAR data collection. Conventional field survey methods will be utilized for the following:
 - NCDOT roadway crossings
 - Water bodies and wetlands crossings to supplement the hydrographic survey (Areas shallower than 3 feet)
 - This project will be tied to the control used to establish the corridor for the previous project for LCFWASA for Easement Staking.

Surveys will include site and terrain features to include manholes, ARV's, blow-offs, valves, tree lines, overhead utility lines, underground utilities, etc. as required to develop design level documents.

2) <u>Hydrographic Survey -</u> We will perform one bathymetric condition survey combined with a topographic survey at 3 different locations. Survey limits will be 150' wide centered on the existing right of way. One along the Cape Fear River, one along Bay Branch Creek, and one along Indian Creek. For work along Bay Branch and Indian creek, bathymetry will be collected on our remotely operated Teledyne Oceanscience Z-Boat equipped with an Odom CVM-100 dual frequency single beam echosounder (fig.1). For this project, the transducer with run at a frequency of 200kHz. Positioning and Real-time water level data will be collected using RTK-GPS. All data will be collected and processed in Hypack navigation software.

For work along the Cape Fear River, bathymetry will be collected on one of our survey vessels using a fully automated hydrographic survey system. We intend to use an R2 Sonic Multi-beam Echo Sounder with a I2NS Inertial Navigation System. This system operates at a frequency range of 170 kHz to 450 kHz

- 3) <u>Subsurface Utility Engineering (SUE)</u> SUE will be utilized to identify the location of existing utilities along the project route. Services include:
 - Conduct utility records research and review prior to executing field work.
 - Perform Quality Level B SUE on two (2) NCDOT roadway crossings that will be impacted by the proposed project. Quality Level B services include the horizontal detection, marking and mapping of non-gravity underground facilities 100 feet either side of the existing pipeline between NCDOT right of way boundaries. Utilities are identified and marked in the field in order to be surveyed and mapped.
 - Perform ground penetrating radar (GPR) investigations for fifty (50) locations along the pipeline route to identify the location and approximate depth of the existing 48-inch PCCP raw water main.
 - Perform thirty (30) Quality Level A vacuum extraction designations along the pipeline route Level A SUE will be completed at NCDOT roadway crossings, water body crossings, wetland crossings, and within the DAK Industries site to provide physical verification of the horizontal and vertical location of the existing 48-inch PCCP raw water main.
 - All SUE services will be field located with conventional survey methods and incorporated in the design documents. SUE services will be performed in accordance with the standards as set by the American Society of Civil Engineers in publication CI/ASCE 38-02 *Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data*
- 4) <u>Easement Maps</u> This scope of work includes five (5) easement maps to New Hanover County or Brunswick County standards depending on the location of the property (see table below). If additional easement maps or revisions are required, they will be paid for under the Unallocated Project Budget as identified in this proposal. Easement work shall meet all federal (ARPA/SRF) requirements for adherence to Uniform Relocation Assistance and the Real Property Acquisitions Act. Once identified, easement maps will be provided within 10 business days.

<u>No.</u>	Parcel ID	<u>Owner</u>
1	110000101	Dupont E I DE NEMOUR
2	600020	BBTB REAL PROPERTIES NC LLC
3	1000030	Bluffs Investment LLC
4	100003001	Bluffs on the Cape Fear POA INC
5	100002902	NC Department of Transportation

- 5) <u>30% Design Submittal</u> Upon completion of the Survey/SUE services, McKim & Creed will provide a 30% design submittal for review and comments. In addition to the 30% design document submittal, McKim & Creed will conduct one (1) workshop meeting to review and discuss the 30% submittal with the project partners. Comments received will be incorporated in the 75% submittal documents. The 30% preliminary design documents will include the following:
 - Preliminary alignment of proposed raw water main. Note that this scope of work assumes that the new raw water main will be installed within the existing LCFWSA easement and that additional easements will be obtained by LCFWSA that are contiguous, parallel, and adjacent to the existing easements. If alternate routing deviates from this general alignment, additional design efforts and associated fees may be required.
 - Preliminary water body and NCDOT roadway crossings. For the purposes of this scope of work, it is assumed that the Cape Fear River crossing will be permitted for open-cut installation.
 - Preliminary wetlands delineations and wetland and waterbody impacts
 - Proposed interconnections, valves, and appurtenances
 - Proposed location of air release valves and blow-off assemblies along the route.
 - Proposed pig launcher and pig retriever locations for the new pipeline.
 - Identification of existing gas mains in the vicinity.
 - Identify overhead power lines and underground utilities (as available)
 - Technical specifications and details will not be included at the 30% submittal.
 - Specific items that are materially different that the PDM recommendations impacting cost and/or schedule will be identified.
 - Preliminary permitting requirements will be identified.
 - The 30% drawings will be provided with plan view only (no profile) at 1" = 50' scale.
 - 30% cost opinion including risk register and assumption log.
 - Value engineering options will be provided for consideration.
 - Preliminary project schedule
 - Safety and QC plan development for project
 - Market survey for subcontractor/supplier interest in project with lead times

The 30% design deliverable will be an electronic format (PDF) copy. Hard copies to be provided upon request.

75% Design

6) <u>75% Design Submittal</u> - A 75% design submittal will be prepared for partner review and comments. In addition to the 75% design document submittal, McKim & Creed

will conduct one (1) workshop meeting to review and discuss the 75% submittal with the project partners. Comments received will be incorporated in the 75% submittal documents. The 75% preliminary design documents will include the following:

- Incorporate review comments from the 30% design submittal as appropriate. Note that this scope of work assumes that the new raw water main will be installed within the existing LCFWSA easement and that additional easements will be obtained by LCFWSA that are contiguous, parallel, and adjacent to the existing easements. If alternate routing deviates from this general alignment, additional design efforts and associated fees may be required.
- For the purposes of this scope of work, it is assumed that the Cape Fear River crossing will be permitted for open-cut installation,
- Prepare plan and profile sheets at a horizontal 1" = 50' scale and a vertical 1"
 = 5' scale.
- Provide 75% design of all trenchless method installations with 75% level details.
- Provide 75% level detail of interconnections and proposed stub-outs identified in the 30% design documents
- Provide technical specifications utilizing McKim & Creed standard technical specifications and coordinated to comply with the Owner's standards.
- Prepare standard details and/or specific details for primary appurtenances to include ARV's, valves, blow-offs, etc. Note that previous details utilized for the recent 54-inch raw water main will be incorporated for standardization when applicable.
- Provide recommended bedding and foundation details for the pipe material.
- Identify NCDOT rights-of-way limits for NCDOT encroachments.
- Provide geotechnical information collected.
- Incorporate SUE data collected on plan and profile sheets.
- Provide preliminary information on proposed corrosion control measures as required.

• Provide details on crossing or parallelism of gas mains, overhead power mains, or other utilities impacted by the proposed project.

- Identify areas where temporary and permanent easements may be required.
- Identify preliminary staging and storage areas, limits of construction, etc. and clearing limits.
- Corrosion control design and field evaluation to be provided by Maggart.
- Identify basic erosion and sedimentation control measures.
- Revised Construction Schedule
- Cash flow projection
- Revised Contingency log for 75% to 100% construction
- Revised Risk Register and assumption log

- Value Engineering options will be provided for consideration.
- Technical specification will acknowledge and include American Iron and Steel DWSRF requirements, as well as any other federal requirements associated with ARPA funds.

The 75% design deliverable will be an electronic format (PDF) copy. Hard copies to be provided upon request

Task 400 - GMP Proposal

After the 75% Workshop Garney will provide a construction GMP based upon the 75% drawings, specifications, and permits received or filed. This pricing will be in a format acceptable to LCFWSA. In addition to the GMP cost Garney will provide additional documentation

- 1. Contingency log/Risk register based on 75% design
- 2. Assumption log for bid
- 3. Value Engineering ideas and costs
- 4. Construction Schedule
- 5. GMP workshop with partners to discuss and review.

Task 500 – Permitting Phase Services

As part of the 75% GMP, McKim & Creed will provide permit level contract documents and will prepare and submit appropriate permit packages to the required regulatory agencies. The following agency approvals are anticipated and included in this scope of work.

Permit Required	Regulatory Agency
NC Division of Water Infrastructure (ARPA/SRF)	NCDEQ/DWI
NCDOT R/W Encroachment	NCDOT
Public Water Supply	NCDEQ
Erosion Sedimentation Control	NCDEQ
Stormwater Management	NCDEQ
Wetlands/CAMA	USACOE/DEQ/CAMA
Duke Energy Transmission Line Crossing	Duke Energy
NC Department of Administration	State of North Carolina

An allowance for the costs of permit application fees are included in the proposal in Task 700. However, this scope of work does not include the cost of licensing fees, property acquisition transactions, mitigation, etc. that may be required by the regulatory agency or reviewing entity.

Task 550 - SRF Funding Requirements (ER/EID and FONSI Approval)

McKim & Creed will prepare and submit ER/EID documents for SRF Funding Requirements if the CFPUA elects to utilize previously approved SRF funding for this project. Based on preliminary discussions with DWI, a major ER/EID is anticipated which requires a FONSI (Finding Of No Significant Impact). The scope of work for this project task includes preparation of all required documents and submittal to DWI. McKim & Creed anticipates up to three rounds of comments to revise and resubmit. Funds from this task will not be utilized if the CFPUA does not utilize the previously approved SRF funding.

Task 600 - Unallocated Project Budget

This task will be set aside as unallocated project budget to provide for changes in the scope of work or unforeseen revisions to the project approach. McKim & Creed will not utilize or expend effort on this task without prior development of a scope, schedule, and fee estimate for the change in scope, and written authorization from Garney and the project partners. Any unused funds from this Task shall be liquidated and returned to LCFWASA.

Task 700 – Permit Fee Allowance

This task will be set aside as project budget to provide for allowance for payment of permit fees. McKim & Creed will not utilize or expend funds from this task without written authorization from Garney and the project partners. Any unused funds from this Task shall be liquidated and returned to LCFWASA.

Preliminary Schedule for phase 1.

Below is deliverable schedule for tasks above.

D	0	Task Mode	Task Name	Duration	Start	Finish	Predecessors		MU	Half 2, 2023 J A 5	OND	Half 1, 2024
1		-	Preconstruction	742 days	Fri 4/21/23	Mon 2/23/2	ŧ	1				and the second
2		100	Scope and Fee	14 days	Fri 4/21/23	Wed 5/10/2	3					
3		-	Council Award	0 days	Wed 5/10/2	3 Wed 5/10/2	32		\$ 5/10			
4		1	Contracts	10 days	Thu 5/11/23	Wed 5/24/2	33	1. 0	2			
5	1		ERID Submittal	45 days	Thu 5/25/23	Wed 7/26/2	34	3 1	1	ant day		
6		-	PER	45 days	Thu 5/25/23	Wed 7/26/2	34		-			
7	1	-	PER Workshop and comments	10 days	Thu 7/27/23	Wed 8/9/23	6			8		
8		-	30% design	60 days	Thu 8/10/23	Wed 11/1/2	37	1		*	100	
9		-	30% Workshop and comments	10 days	Thu 11/2/23	Wed 11/15/	28				* ,	
10		100	60% Design	60 days	Thu 11/16/2	Wed 2/7/24	9	1 1			*	
11		-	60% Work shop and comments	10 days	Thu 2/8/24	Wed 2/21/2	410					* ,
12		-	DWI Design package submittal	5 days	Thu 2/22/24	Wed 2/28/24	411					2
13		4	GMP Pricing and approval	10 days	Thu 2/22/24	Wed 3/6/24	11	1 2				
14		-	Apply for permits	136 days	Thu 11/23/2	. Thu 5/30/24	1					
22												
23	1	-	Easements	200 days	Thu 7/27/23	Wed 5/1/24						I
27		-										

Basis for Compensation

CLASSIFICATION	EXTERNAL BILLING RATE - HOURLY
REGIONAL MANAGER	\$225.00
SENIOR PROJECT MANAGER	\$188.00
PROJECT MANAGER	\$157.00
ASSISTANT PROJECT MANAGER	\$131.00
SENIOR SUPERINTENDENT	\$191.00
SAFETY MANAGER	\$123.00
SENIOR ESTIMATOR	\$145.00
ENGINEERING - PRINCIPAL	\$300.00
PROJECT ENGINEER III	\$205.00
ENGINEER INTERN	\$140.00
SENIOR CAD TECHNICIAN	\$100.00
CAD TECHNICIAN	\$85.00
CONSTRUCTION - PROJECT REPRESENTATIVE III	\$145.00

10% design build fee 9% fee on engineering services

Task	Description		Total Fee	Task Percent of Total Fee
100	PER Final Document	ŝ	191,070	11.8%
200	Geotechnical Investigations	Ş	173,218	10.7%
300	Design Phase Services 30% & 75%	ş	1,087,795	67.2%
400	GMP	Ś	34,425	2.1%
500	Permit Phase Services	\$	87,442	5.4%
550	ER/EID &FONSI	ş	45,800.00	2.8%
	Total	ŝ	1,619,750	100.0%

Task	Unallocated Costs		Total Fee
600	Unallocated Costs	Ś	100,000.00
700	Permit Fee Allowance	Ŷ	16,350.00
	Total	\$	116,350.00

Garney Scope of work		Ş	195,500
Garney Fee on scope	10%	ş	19,550
M&C scope (With Subs)		ş	1,288,750
Garney Fee on Engineering Services	%6	s	115,950
Summary of Allowance Cost		s	116,350
Total cost for Preconstruction		s	1,736,100

NEW BUSINESS (NB3)

Lower Cape Fear Water & Sewer Authority

AGENDA ITEM

To: CHAIRMAN BLANCHARD AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: May 8, 2023

Re: FY 2023-2047 Draft Master Plan Document

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

Action Requested: Motion to Approve or Disapprove



DRAFT MASTER PLANNING DOCUMENT

25 Year Planning Period FY 2022-2047 Updated April 2023

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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 - KB3. New Generators at King's Bluff Raw Water Pumping Station
 - KB4. Pig 48" Pipe from King's Bluff Pump Station to 3 MG Ground Tank
 - KB5. Pig Future 54" Pipe from King's Bluff Pump Station to 3 MG Ground Tank
 - KB6. Walkway and Air Backwash Building Replacement
 - KB7. Replace Raw Water Pumps 1, 4, 5
 - KB8. New Surge Tank at King's Bluff
 - KB9. 5 ROW Acquisitions
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 - CS1. Intermediate Booster Pump Station Shelter
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 - CS5. 7-Mile 48" Parallel Raw Water Main 3 MG Ground Tank to Pender Vault
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- BB1. New High Service Pumping Station
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- BB8. Replace Existing Generators at Bladen Bluffs Pumping Station
- 5. Bladen Bluffs Regional Surface Water Facility Annual Fiscal Year Budget Breakdown
- 6. Appendix

Executive Summary

I. Kings Bluff Raw Water Facilities

The Authority's proposed 25-year (2022-2047) Capital Project budget for the Kings Bluff Raw Water Facilities is estimated at approximately \$149M. 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 \$60M 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
- Intermediate Booster Pump Station Upgrade
- New 5th Pump at King's Bluff Pumping Station

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
- Installation of a new surge tank at the King's Bluff Pumping Station

- 5 ROW Acquisitions
- Intermediate Booster Pump Station Shelter
- Walkway to access 48" raw water main at Livingston Creek

II. Bladen Bluffs Regional Surface Water Facility

The Authority's proposed 25-year (2022-2047) Capital Project budget for the Bladen Bluffs Regional Surface Water Facility is estimated at approximately \$7.3M. 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.am c
- 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	The project has a moderate	The project is of critical
low and does not	impact on operations and	need and will greatly
fundamentally impact	may provide limited	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</u> <u>Parallel Raw Water Main</u> report. A summary of the projected demands is provided as follows:

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

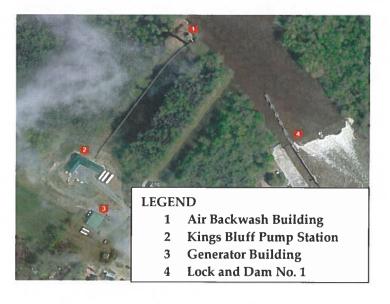
LCFWSA Projected Raw Water Demands

Kings Bluff Raw Water Facilities Capital Improvements LCFWSA Projects FY 2022-2047

PROJECT N TITLE	New 4 th Pump	o at King's Bluff Raw Water Pump Station	KB 1
CATEGORY:	Capacity/Effi	iciency	
projected	demands. (Se	vater pump at King's Bluff Pumpin ee #2 on legend in graphic below) F n capacity by 2037.	0
• Firm capa	city of station	ty to meet long term raw water der n will require 3 pumps by 2037. For Ided to pump rotation to reduce he	urth pump will be
The project	cted demands	s at the station will exceed the firm	1 2
	cted demands	s at the station will exceed the firm to serve the project customer dema	1 2
The project station with the state of t	cted demands		1 2
The project station with the project station with the station with the state st	cted demands ll not be able	to serve the project customer dema	1 2
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The project station with the project station with the station with th	onths) IPLETION IPLETION	to serve the project customer dema 2 24	and.
The project station with the station of the station o	onths) IPLETION EAR	to serve the project customer dema 2 24 2027 \$4,600,000	and.
The project station with the station of the station o	onths) IPLETION IPLETION EAR 25	to serve the project customer dema 2 24 2027 \$4,600,000 ANTICIPATED FISCAL YEAR	and.



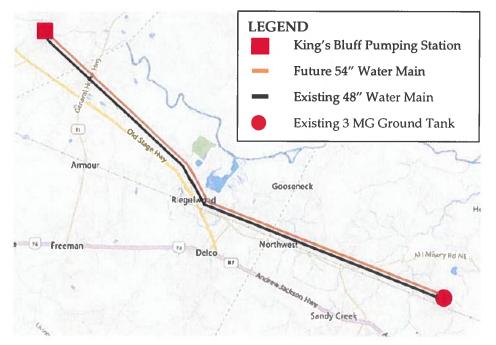
PROJECT TITLE		urbish Existing 1600 HP Vertical bine Raw Water Pump	KB 2
CATEGORY:	Renewal/Reh	abilitation	
		shment of an existing 1600 HP vertion installed in 2009.	cal turbine raw
Justification:			
• Due to a	ge and mechar	ical wear, it is anticipated that a rel	ouilding of one of
the raw w	water pumps v	vill be required.	
Rebuilding	ng of pumps w	vill extend the service life of the pur	nps
Consequence of • The likel existing	ihood of failur	e of the pumps increases due to age	and wear of the
Criticality:			•
1		2	
DURATION (M	ONTHS)	12	
REQUIRED CON	MPLETION	2036	
TOTAL ESTIMA	ATED COST	\$300,000	
FISCAL Y	(EAR	ANTICIPATED FISCAL YEAR E	XPENDITURE
2035 - 2	036	\$300,000	



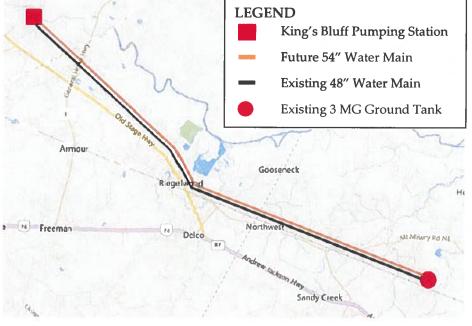
PROJECT TITLE	Generators at	King's Bluff Raw Water Pump Station	KB 3
CATEGORY:	Capacity, Effic	ciency, Maintenance	
Summary: • Provide n station.	ew standby ge	nerator(s) and a new generator buil	ding at the pump
Justification:			
motor HP	as well as larg	future increased load associated w er quantity of pumps. needed to house the new generators	A A
	nt generators a	re undersized to accommodate long are anticipated to become cost prohi	,
Criticality:		_	
1		2	
DURATION (MC	NTHS)	24	
REQUIRED COM		2036	
TOTAL ESTIMA	TED COST	\$14,200,000	
FISCAL YI	EAR	ANTICIPATED FISCAL YEAR	EXPENDITURE
2034 - 20	35	\$1,500,000	
2035 - 20	26	\$12,700,000	



PROJECT Pig 4 TITLE	-	rom King's Bluff Pump Station to 3 MG Ground Tank	KB 4
CATEGORY: Rene	wal/Reh	abilitation, Efficiency	
		King's Bluff to 3 MG ground tank. Rep es and blow-offs.	oair and/or
Justification:			
cleaned or em	ptied in t	clean pipeline free of sediment, silt, a he case of an emergency. pumps by reducing frictional characte	
	oss of cap	acity and/or clogging due to sedimen aigher electrical costs	t buildup.
Criticality:			
1		2	3
DURATION (MONT	HS)	12	
REQUIRED COMPLE	and a state of the	2041	
TOTAL ESTIMATED		\$1,200,000	
FISCAL YEAR		ANTICIPATED FISCAL YEAR EX	PENDITURE
2040 - 2041		\$1,200,000	



PROJECT	Pig 54" Pipe fro	om 3 MG Ground Tank to US 421	KB 5
CATEGORY:	Renewal/Reha	abilitation, Efficiency	
	-	ing's Bluff to 3 MG ground tank. Re s and blow-offs.	epair and/or
cleaned o	or emptied in th	clean pipeline free of sediment, silt ne case of an emergency. pumps by reducing frictional charac	
	for loss of capa	acity and/or clogging due to sedime igher electrical costs	ent buildup.
Consequence of Potential	for loss of capa		ent buildup.
Consequence of Potential Loss of ef	for loss of capa		ent buildup.
Consequence of Potential Loss of ef	for loss of capa ficiency and hi	gher electrical costs	ent buildup. 3
Consequence of Potential Loss of ef Criticality: 1 DURATION (MC	for loss of capa ficiency and hi	gher electrical costs	ent buildup. 3
Consequence of Potential Loss of ef Criticality: 1 DURATION (MC	for loss of capa ficiency and hi ONTHS) MPLETION	gher electrical costs 2 12	ent buildup.
Consequence of Potential Loss of ef Criticality: I DURATION (MC REQUIRED COM	for loss of capa ficiency and hi ONTHS) MPLETION TED COST	2 12 2040	3



PROJECT TITLE	Walkway an	d Air Backwash Building Replacement	KB 6
CATEGORY:	Renewal/Reh	abilitation/Maintenance	
Station t	o the Air Backw	nt of existing walkway from the King's Blu vash buildings with a new concrete walkwa ng air backwash building. (See number 1 or	ay.
serviceal overall v During I Existing,	ble condition an veathering of w Hurricane Flore original air ba ructural integr	umping station to air backwash buildings i nd will need to be replaced by 2024 due to r valkway. ence the walkway was nearing submergence ckwash building needs significant improve ity caused by the general degradation of or	rotting wood and e ments due to a
raw wate • The air b	ation of the wa er intakes. vackwash facilit	lkway could limit access to the air backwas ty will continue to deteriorate and create po pment and access for operations and mainte	otential issues
Cificanty.		▼	
1		2	3
DURATION (MO	ONTHS)	12	
REQUIRED CON	IPLETION	2026	
TOTAL ESTIMA	TED COST	\$2,250,000	
FISCAL	YEAR	ANTICIPATED FISCAL YEAR EXP	ENDITURE
2024 - 2	2025	\$250,000	
2025 - 2	2026	\$2,000,000	



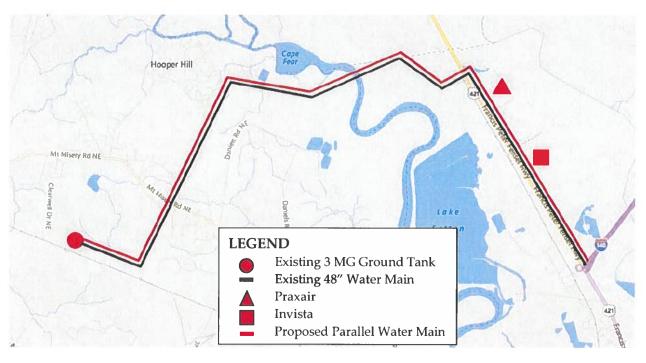
PROJECT TITLE	Replace Raw Water Pumps 1, 4, 5		KB 7
CATEGORY: R			
Summary: • Replace 16 installed in		al turbine raw water pumps 1, 4	, 5 originally
Justification:	·		
0		nical wear, it is anticipated that r 5 will be required.	eplacement of raw
• The likelih		C II	
		e of the pumps increases due to vice life of the existing pumps w	Q
existing p			Q
existing p	ump. The ser	vice life of the existing pumps w	Q
existing pu Criticality: 1 DURATION (MO	ump. The ser	vice life of the existing pumps w	vill be expended.
existing pu Criticality: 1 DURATION (MO REQUIRED COM	ump. The ser NTHS) IPLETION	vice life of the existing pumps w 2 36	vill be expended. ▼ 3 038
existing pu Criticality: 1	NTHS) PLETION ED COST	vice life of the existing pumps w 2 36 2030, 2035, 20	vill be expended. ▼ 3 038
existing pu Criticality: 1 DURATION (MO REQUIRED COM TOTAL ESTIMAT	UNTHS) IPLETION TED COST EAR	vice life of the existing pumps w 2 36 2030, 2035, 20 \$10,800,000	vill be expended. ▼ 3 038
existing pu Criticality: 1 DURATION (MO REQUIRED COM TOTAL ESTIMAT FISCAL YE	INTHS) IPLETION IED COST EAR 30	vice life of the existing pumps w 2 36 2030, 2035, 20 \$10,800,000 ANTICIPATED FISCAL YEA	vill be expended. ▼ 3 038



PROJECT New STITLE	Surge Tank at King's Bluff	KB 8
CATEGORY: Capacity		
 Summary: Addition of a 4th surge 	tank at King's Bluff Pumping Stat	ion
Justification:		
As demand increases,	surges in the system will likely inc	rease. The 4th surge
tank will serve to mitig	gate system surges and protect the	pumps, piping
and miscellaneous equ	ipment from surges and water har	nmer.
Consequence of No Action:		
Existing pump station	and piping infrastructure would b	e put at risk for
damage due to system	surges and could potentially creat	e failures in the
pipeline.		
Criticality:		
	•	
1	2	3
DURATION (MONTHS)	12	Cast:37
REQUIRED COMPLETION	2044	
TOTAL ESTIMATED COST	\$650,000	
FISCAL YEAR	ANTICIPATED FISCAL YEAR	EXPENDITURE
2043 - 2044	\$650,000	

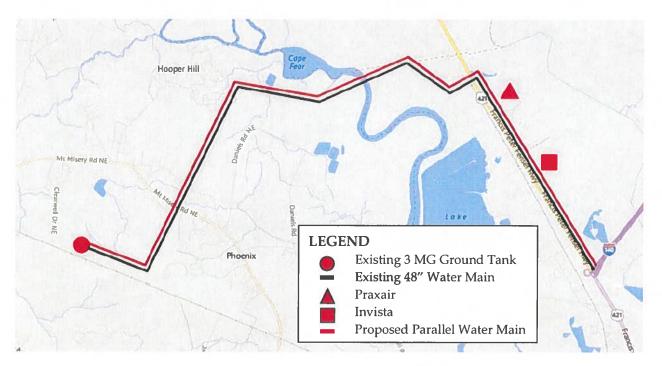


PROJECT TITLE	5	5 ROW Acquisitions	KB 9
CATEGORY: Ca	apacity		
Summary:			
Right-of-W	ay acquisitio	ons along the existing 48" Raw W	Vater Main from the
3 MGD gro	ound tank to	the US421 service area.	
Justification:			
Required to	o install the j	proposed 48" parallel raw water	main
Consequence of N	o Action:		
		S421 service area will be limited	to the capacity of
•	g 48" main.		I by
Criticality:			
, , , , , , , , , , , , , , , , , , ,			
		▼	
1		2	3
1 DURATION (MOI	NTHS)	▼ 2 36	3
	,		3
	PLETION	36	3
REQUIRED COM	PLETION TED COST	36 2026	3 R EXPENDITURE
REQUIRED COM TOTAL ESTIMAT	PLETION ED COST AR	36 2026 \$330,000	3 R EXPENDITURE
REQUIRED COM TOTAL ESTIMAT FISCAL YE	PLETION ED COST AR 24	36 2026 \$330,000 ANTICIPATED FISCAL YEA	3 R EXPENDITURE



PROJECT TITLE		n PCCP Inspection and Pig- Fround Tank to US-421	KB 10
CATEGORY:	Renewal/Rel	nabilitation, Efficiency	
Plant inc replace a	cluding installa air release valv on to existing 4	MG ground tank to CFPUA's Wat ation of pig launcher/retrieval system res and blow-offs. 18-inch PCCP pipe from the existing	m. Repair and/or
repairs. • Recent e will main	valuation india ntain a clean p	es require routine inspection, mainte cated build -up of sediment in the 4 ipeline free of sediment, silt, and de pumps by reducing frictional chara	8″ line. Pigging ebris.
	loss of capacity	y and/or clogging due to sediment b nigher electrical costs	ouildup.
1		2	1012- 3 -31-5-5-509
DURATION (M	ONTHS)	15	
REQUIRED CO	MPLETION	2027	
TOTAL ESTIMA	ATED COST	\$2,475,000	
FISCAL Y	(EAR	ANTICIPATED FISCAL YEAR E	EXPENDITURE
2025 - 2	.026	\$2,300,000	
2026 - 2	.027	\$175,000	
Mi Misery Rd NE Chuwa Di Nj	Hooper Hill	LEGEND Existing 3 MG Ground Tank Existing 48" Water Main	6

PROJECT TITLE	48	-Inch PCCP Repairs	KB 11
CATEGORY: R	enewal/Reha	abilitation/Maintenance	
-	+	water main based on findings he 3 MG ground tank to US-42	
Justification: • Pipe require	es routine ma	aintenance, inspection, and rep	pairs.
Consequence of N Increased r 	o Action: isk for pipelin	ne break.	
Criticality:			
1		2	TRANS B TRANS
DURATION (MO	NTHS)	12	
REQUIRED COM	dia	2026	· · · ·
TOTAL ESTIMAT	ED COST	\$300,000	
FISCAL YE	AR	ANTICIPATED FISCAL YEA	AD EXDENIDITTIDE
			AK EAL ENDITOKE

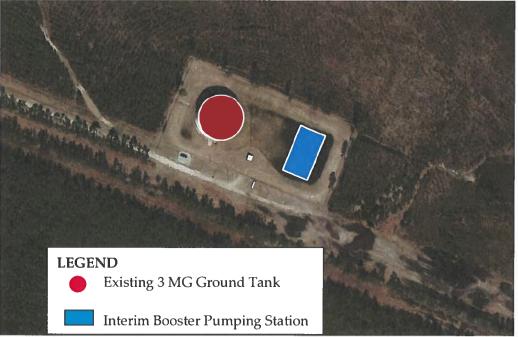


Kings Bluff Raw Water Facilities Capital Improvements Cost Sharing Projects FY 2022-2047

PROJECT TITLE	Intermediat	te Booster Pump Station Shelter	CS 1
CATEGORY: N	laintenance	/Efficiency	
Summary: • Addition	of protective	shelter at the Intermediate Booster I	PS
Justification:	. <u>.</u>		
•	•	sting pumps, equipment, gear from	
 Provides i 	mproved ma	intenance access during inclement v	veather
	t potentially	suffers degradation due to exposure ditions, and sun damage.	e to the elements
Criticality:			•
1		2	Maria Maria
DURATION (MC	NTHS)	12	1976
REQUIRED COM	IPLETION	2026	
	TED COST	\$850,000	
TOTAL ESTIMA	LD CODI	+	
TOTAL ESTIMAT		ANTICIPATED FISCAL YEAR E	XPENDITURE



PROJECT TITLE	Intermediate	e Booster Pump Station Upgrade	CS 2
CATEGORY:	Capacity		
		s to the existing booster pump stati v, larger capacity pumps.	on. Diesel pumps
approxim • Recomme Consequence of N • Booster P	ately 2037. nd upgrade t No Action: Pump Station	will exceed the current 29 MGD cap o 37 MGD capacity. will not be able to fully serve the pr	
and system Criticality:	m pressure fo	r the US 421 area.	
1		2	
DURATION (MC	NTHS)	24	
REQUIRED COMPLETION 2035			
TOTAL ESTIMA	FED COST	\$8,600,000	
		\$8,600,000 ANTICIPATED FISCAL YEAR H	EXPENDITURE
TOTAL ESTIMAT	EAR		EXPENDITURE



TITLE	New 5 th Pump	at King's Bluff Raw Water Pump Station	CS 3
CATEGORY: C	Capacity		
projected	demands. (See	er pump at King's Bluff Pumping S e #2 on legend in graphic below) Pr capacity by 2062	
Justification:			
 Decrease l reliability. 		imes on existing pumps to extend l	life and improve
 Ine proiec 	nen nemanne.		and a stress and st
		at the station will exceed the firm on the station will exceed the firm on the project customer demands and the project customer demands and the statistical states are stated as a state of the state o	
station wi Criticality:		to serve the project customer deman	
station wi Criticality: 1	ll not be able t	to serve the project customer demand	
station will Criticality: 1 DURATION (MO	ll not be able t	to serve the project customer demands and the project customer dem	
station wi Criticality: 1 DURATION (MO REQUIRED COM	ll not be able t DNTHS) IPLETION	to serve the project customer demands of the project customer	
station will Criticality: 1 DURATION (MO	Il not be able t ONTHS) IPLETION FED COST	to serve the project customer demands 2 24 2046 \$4,600,000	nd.
station will Criticality: 1 DURATION (MO REQUIRED COM TOTAL ESTIMAT	Il not be able t DNTHS) IPLETION TED COST EAR	to serve the project customer demands of the project customer	nd.
station will Criticality: 1 DURATION (MO REQUIRED COM TOTAL ESTIMAT FISCAL YE	Il not be able t DNTHS) IPLETION FED COST EAR 45	2 24 24 2046 \$4,600,000 ANTICIPATED FISCAL YEAR E	nd.



PROJECT TITLE	20 N	MG Ground Tank	CS 4
CATEGORY:	Capacity/Efficie	ency	
the existin		a new 20 MG ground tank in tank with sufficient acreage	
Justification: • Increase i	n available syster	m storage. supply for safe and efficient	operation of the
 Provide a adjacent i Consequence of I Minimal s 	nterim booster p No Action: system storage as	oump station. s system demands continue t	to increase
 Provide a adjacent i Consequence of I Minimal s 	nterim booster p No Action: system storage as	oump station.	to increase
 Provide a adjacent i Consequence of I Minimal s Increased 	nterim booster p No Action: system storage as	oump station. s system demands continue t	to increase
 Provide a adjacent i Consequence of I Minimal s Increased 	nterim booster p No Action: system storage as cycling of pump	oump station. s system demands continue to os at the intermediate booster	to increase
 Provide a adjacent i Consequence of I Minimal s Increased Criticality: 1 DURATION (MC 	nterim booster p No Action: system storage as cycling of pump DNTHS)	oump station. s system demands continue to s at the intermediate booster 2	to increase
 Provide a adjacent i Consequence of I Minimal s Increased Criticality: 	nterim booster p No Action: system storage as cycling of pump ONTHS) IPLETION	s system demands continue to s at the intermediate booster 2 24	to increase r pump station. 3
 Provide a adjacent i Consequence of I Minimal s Increased Criticality: 1 DURATION (MC REQUIRED COM 	nterim booster p No Action: system storage as cycling of pump ONTHS) IPLETION TED COST	s system demands continue to s at the intermediate booster 2 24 2038	to increase r pump station. 3
 Provide a adjacent i Consequence of I Minimal s Increased Criticality: 1 DURATION (MCREQUIRED CONTOTAL ESTIMA) 	nterim booster provident for the second seco	s system demands continue to s system demands continue to s at the intermediate booster 2 24 2038 \$ 14,800,00	to increase r pump station. 3 0 AR EXPENDITURE



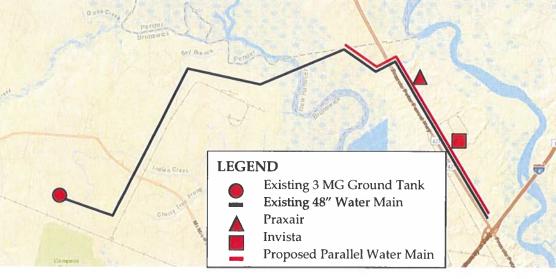
PROJECT TITLE		allel Raw Water Main from 3 MG und Tank to Pender Vault	CS 5
CATEGORY:	Capacity		
main fr the exis Justification: Provide Reduce Improv Consequence of The sys demand The exis	om 3 MG grou ting 48-inch ra es additional sy s reliance on in es reliability w of No Action: tem may not h ds. sting 48-inch m	itermediate booster pump station. ith a parallel main to serve major cus ave the capability to meet long-term nain is a single point of failure from th	e would parallel tomers. customer
Criticality:	tank to the Per	nder County vault.	
1	ngi svol i	2	3
DURATION (M	(IONTHS)	36	
REQUIRED CO	OMPLETION	2027	
TOTAL ESTIM	ATED COST	\$35,700,000*	
FISCAL	YEAR	ANTICIPATED FISCAL YEAR EX	XPENDITURE
2024 -	2025	\$15,000,000	
2025 -	2026	\$15,000,000	
2026 -	2027	\$15,700,000	
	Pandal University Control of Cont	ng.	

LEGEND

-

- Existing 3 MG Ground Tank Existing 48" Water Main
- Praxair
- Invista
 - Proposed Parallel Water Main

PROJECT TITLE		allel Raw Water Main from 3 MG der Vault to CFPUA Vault	CS 6
CATEGORY:	Capacity		
Summary:			
Design	and construction	on of approximately 3-miles of 48-in	ch raw water
main fro	om the Pender	County vault to the CFPUA vault. F	Pipe would
	the existing 48	3-inch raw water main in this area.	
Justification:			
	-	vstem capacity.	
		termediate booster pump station.	
		ith a parallel main to serve major cu	stomers.
Consequence o			
		ave the capability to meet long-term	customer
demand			
	ç	nain is a single point of failure from t	the 3 MGD
<u> </u>	tank to the US	421 service area.	
Criticality:			
1		2	3
DURATION (M	(ONTHS)	24	
REQUIRED CC		2029	
TOTAL ESTIM	THE R. P. LEWIS CO., LANSING MICH.	\$24,300,000	
FISCAL	YEAR	ANTICIPATED FISCAL YEAR F	EXPENDITURE
2027 - 1	2028	\$10,000,000	
2028 - 1	2029	\$14,300,000	
0.00 C.	Portsol Britiswich Darf Bra	- Leone	2



PROJECT TITLE	100 MGD Reservoir	CS 7
CATEGORY: Efficiency		
	of a new 100 MG reservoir. Optim oir to be determined by future eng	
 Justification: Increase in available sy Allows for temporary 1 (line break, power outa) 	redundancy of supply in the case of	of an emergency
	e as system demands continue to under emergency conditions.	increase.
Criticality:		2
1	2	3
DURATION (MONTHS)	24	
REQUIRED COMPLETION	2033	
TOTAL ESTIMATED COST	\$40,000,000	
FISCAL YEAR	ANTICIPATED FISCAL YEAR	EXPENDITURE
2031 - 2032	\$6,000,000	
2032 - 2033	\$34,000,000	



Project No.	Description	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	FY 2036	FY 2037	FY 2038	FY 2039	FY 2040	FY 2041	FY 2042	FY 2043	FY 2044	FY 2045 2	FY F 2046 20	FY Totals 2047
KB 1	New 4th Pump at King's Bluff (KBPS)			\$1.00	\$2.50	\$1.10																					\$4.60
KB 2	Rebuild High Service Pump Motor														\$0.30								-				\$0.30
KB 3	New Generators													\$1.50	\$12.70												\$14,20
KB 4	Pig 48" Water Main (KBPS to 3 MG Tank)																		1	\$1.20							\$1.20
KB 5	Pig 54" Water Main													\$1,20													\$1.20
KB 6	Walkway and Air Backwash Building Replacement			\$0.25	\$2.00																1						\$2.25
KB 7	Replace Raw Water Pumps 1, 4, 5								\$3.60					\$3.60			\$3.60										\$10.80
KB 6	New Surge Tank at KBPS																						\$0.65				\$0.65
KB 9	5 ROW Acquisitions		\$0.11	\$0.11	\$0.11															$\left \right $	\square						\$0.33
KB 10	48-Inch PCCP Inspection and Pig – Ground Tank to US 421				\$2.30	\$0.175			-				<u> </u>						1					-			\$2.475
KB 11	48-Inch PCCP Repairs				\$0.30																						\$0.30
											Ű	st Shar	Cost Sharing Projects	jects					1		1		-				-
CS 1	Intermediate Booster Pump Station Shelter																									-	-
CS 2	Intermediate Booster Pump Station Upgrade																									\vdash	
CS 3	New 5 th Pump at King's Bluff																						\vdash	-			
CS 4	20 MG Ground Tank																										
CS 5	7-Mile 48" Parallel Raw Water Main																										
CS 6	3-Mile 48" Parallel Raw Water Main																				1						
CS 7	100 MGD Reservoir																										
Total	Total Riscal Vaar Evnandituue		\$0.11	\$16.36	\$23.06	\$16.08	STO DO	0 \$14.30	5	0000	ec ou	6.1 00	6	1	612 00	6	100	0000	8	\$1.20	9	00 53					

Bladen Bluffs Regional Surface Water Treatment Facility Capital Improvements Projects FY 2022-2047

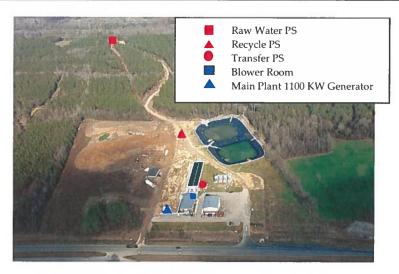
PROJECT TITLE	New H	Iigh Service Pump Station	BB 1
CATEGORY:	Capacity		
Summary: • Constru	uct a new high s	ervice pumping station to increas	e capacity.
maintenance of project described operation of the maintenance red Justification: • Require • Constru- when a Region	the Bladen Bluffs I on this sheet wo facility from SFC nuirements are solved to serve new action of new hi dditional custor al Surface Water of No Action:	land Company (SFC) provides all ope Regional Surface Water Treatment F uld only be required if the LCFWSA . Until such time all capital improve ely the responsibility of SFC. customers. gh service pump station would on ners are identified to be served by treatment Facility.	Facility. The CIP assumed full ements and/or nly be required y the Bladen Bluffs
deman			
Criticality:			
1		2	3
DURATION (M		24	
REQUIRED CO		2029	
TOTAL ESTIM	IATED COST	\$4,200,000	
FISCAL		ANTICIPATED FISCAL YEAR	EXPENDITURE
202		\$600,000	
202	29	\$2,400,000	



PROJECT TITLE	Construct	New 1 MG Capacity Clearwell	BB 2
CATEGORY:	Capacity		
Summary: • Construction Constr		meet future customer finished wat	er storage
maintenance of l project described operation of the	the Bladen Bluffs I on this sheet wo facility from SFC	land Company (SFC) provides all open Regional Surface Water Treatment Fa buld only be required if the LCFWSA a C. Until such time all capital improven lely the responsibility of SFC.	cility. The CIP ssumed full
• Clearw	rved by the Bla	customers. be required when additional custor den Bluffs Regional Surface Water	
demano	tem will not ha	ve the required capacity to meet ne	ew customer
Criticality:			
1		2	3
1 DURATION (N	MONTHS)	2 24	31725128
the second se			3
REQUIRED CO	OMPLETION	24	31,25,050
REQUIRED CO	OMPLETION ATED COST	24 2029	3 EXPENDITURE
1 DURATION (N REQUIRED CO TOTAL ESTIM FISCAL 202	OMPLETION ATED COST YEAR	24 2029 \$3,000,000	BEXPENDITURE



PROJECT TITLE	Replace Thi	ree (3) Pumps at the Raw Water Pump Station	BB 3
CATEGORY:	Renewal/Reh	nabilitation	
Summary: • Routine r Station.	eplacement of	f three (3) aging pumps at Raw Wa	ter Pumping
maintenance of the project described o operation of the fac <u>maintenance requi</u> Justification:	Bladen Bluffs n this sheet wo cility from SFC rements are sol ill be approxin	land Company (SFC) provides all oper Regional Surface Water Treatment Fa uld only be required if the LCFWSA as . Until such time all capital improvem lely the responsibility of SFC. mately 20 years old by 2032 and ap	cility. The CIP ssumed full nents and/or
Consequence of I The likeli existing p 	hood of failur	e of the pumps increases due to ag	e and wear of the
Criticality:			
1		2	3
DURATION (MC	ONTHS)	12	
REQUIRED COM		2032	
TOTAL ESTIMA	TED COST	\$300,000	
FISCAL Y	EAR	ANTICIPATED FISCAL YEAR H	EXPENDITURE
2032		\$300,000	



PROJECT TITLE	Replace B	Blower in the Blower Building	BB 4
CATEGORY:	Renewal/Rel	nabilitation	
Summary: • Routine i	replacement of	f aging blower in blower building.	
maintenance of th project described of operation of the fa maintenance requ Justification:	e Bladen Bluffs on this sheet wo cility from SFC irements are sol vill be approxi	land Company (SFC) provides all oper Regional Surface Water Treatment Fac uld only be required if the LCFWSA as . Until such time all capital improvem lely the responsibility of SFC. mately 25 years old by 2032 and ap	cility. The CIP ssumed full eents and/or
Consequence of The likeli existing b	ihood of failur	e of the blower increases due to age	e and wear of the
Criticality:			
1		2	3
DURATION (M	ONTHS)	12	
REQUIRED CON	MPLETION	2032	
TOTAL ESTIMA	TED COST	\$120,000	
FISCAL Y	'EAR	ANTICIPATED FISCAL YEAR H	EXPENDITURE
2032		\$120,000	



PROJECT TITLE	Replace Thre	ee (3) Pumps at the Recycle Pump Station	BB 5
CATEGORY:	Renewal/Re	habilitation	
Summary: Routine Station.	-	of three (3) aging pumps at the Recy	cle Pumping
maintenance of t project described operation of the J	he Bladen Bluffs on this sheet wo facility from SFC	aland Company (SFC) provides all open s Regional Surface Water Treatment Fa ould only be required if the LCFWSA a C. Until such time all capital improven olely the responsibility of SFC.	cility. The CIP ssumed full
Justification:		tery me responsibility of or e.	
• Pumps	will be approxi ervice life.	imately 20 years old by 2032 and ap	proaching end of
Consequence o • The like existing	lihood of failu	re of the pumps increases due to ag	e and wear of the
Criticality:			
•			
1		2	
DURATION (N	and the second sec	12	
REQUIRED CC	The second se	2032	
TOTAL ESTIM		\$180,000	
FISCAL	YEAR	ANTICIPATED FISCAL YEAR	EXPENDITURE
203	2	\$180,000	



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.

Criticality:

1	2
DURATION (MONTHS)	12
REQUIRED COMPLETION	2032
TOTAL ESTIMATED COST	\$300,000
FISCAL YEAR	ANTICIPATED FISCAL YEAR EXPENDITURE
2032	\$300,000



PROJECT TITLE	Replace 7	Гwo (2) Generators at the Site	BB 7
CATEGORY:	Renewal/Rel	nabilitation	
Summary:	_		
Routine r	eplacement of	f two (2) aging on-site generators.	
Note: Currently S	mithfield Farm	land Company (SFC) provides all oper	ation and
e e		Regional Surface Water Treatment Fac	
		uld only be required if the LCFWSA as	
		. Until such time all capital improvem	ents and/or
	rements are sol	lely the responsibility of SFC.	
Justification:			
-	•	wo (2) generators on-site. Generator	
		s old by 2037 and approaching end	of service life.
Consequence of I			
	-	are undersized to accommodate los	ng term
demands			
	ng generators	s are anticipated to become cost pro	hibitive to
maintain.			
Criticality:			
1		2	3
DURATION (MC	ONTHS)	24	
REQUIRED CON	IPLETION	2037	
TOTAL ESTIMA	TED COST	\$840,000	
FISCAL Y	EAR	ANTICIPATED FISCAL YEAR E	EXPENDITURE
2036		\$240,000	
2037		\$600,000	



Annual Fiscal Year Budget Breakdown (In Millions of Dollars)

Project No.	Description	FY 2022	FY 2023	FY 2024 2	FY F 2025 20	FY FY 2026 2027	Y FY 27 2028	K FY 28 2029		FY FY 2030 2031		FY F 2032 20	FY F	FY F 2034 20	FY F 2035 20	FY F 2036 20	FY I 2037 21	FY I 2038 20	FY 1 2039 24	FY 1 2040 21	FY F 2041 20	FY 2042 2	FY 2043	FY 2044	FY 2045	FY 2046	FY 2047	Total s
BB 1	New High Service Pump Station						\$0.60	60 \$3.60																				\$4.20
BB 2	Construct New 1 MG Capacity Clearwell						\$0.60	60 \$2.40	04																			\$3.00
BB 3	Replace (3) Pumps at Raw Water Pump Station										\$0.30	8																\$0.30
BB 4	Replace Blower in Blower Building										\$0.12	12																\$0.12
BBS	Replace (3) Pumps at the Recycle Pump Station													\$	\$0.18													\$0.18
BB 6	Replace (3) Pumps at the Transfer Pump Station													\$	\$0.30													\$0.30
BB 7	Replace (2) Generators at the Site														\$	\$0.24 \$0	\$0.60											\$0.84
Total Fiscal	Total Fiscal Year Expenditure						\$1.20	20 \$6.00	00	121	\$0.42	42		\$0	\$0.48 \$0.	\$0.24 \$0	\$0.60											\$8.94

APPENDIX A – OPERATIONS BUDGET

	ALL SULL -	THE MANAGEMENT	Annual F	Annual Fiscal Year Budget Breakdown - Operations	Budget Bi	reakdown	- Operati	Sug			
ttem	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	Totals
Surveying		\$105,000									\$105,000
ROW Maintenance		\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$495,000
ROW Clearing		\$225,000	\$225,000								\$450,000
SCADA Improvements				\$125,000							\$125,000
Anti-Vortexing Improvements		\$50,000	\$50,000	\$50,000							\$150,000
Meter and Valve Upgrades/Replacements								\$125,000			\$125,000
VFD Replacements		\$250,000	\$250,000								\$500,000
Argo ATV											\$0
RR Trans	10 20 202	\$48,000	\$350,000	\$350,000							\$748,000
Miscellaneous											\$0
Total Fiscal Year Expenditure		\$733,000	\$930,000	\$580,000	\$55,000	\$55,000	\$55,000	\$180,000	\$55,000	\$55,000	\$2,698,000

AGENDA ITEM

To:	CHAIRMAN BLANCHARD AND BOARD MEMBERS

From: TIM HOLLOMAN, EXECUTIVE DIRECTOR

Date: May 8, 2023

Re: Budget Amendment #4

Budget Amendment #4 is necessary for preconstruction costs on the parallel raw water pipeline and for the rate study.

Action Requested: Motion to approve/disapprove.



Lower Cape Fear Water & Sewer Authority Leland, North Carolina BUDGET AMENDMENT #4 Fiscal Year 2022 - 2023

BE IT ORDAINED by the Board of Directors of the Lower Cape Fear Water & Sewer Authority that the following amendments are made to the FY 2022-2023 Annual Budget Ordinances as follows:

Section 1: To amend the **Operating Revenue**, the listed appropriation is to be increased as follows:

Operating Revenue:	Increase
3180-00 SRF/Parallel Revenue	\$1,900,000
	\$1,900,000

This amendment is necessary to add the rate study and preconstruction cost for the new 48-inch parallel raw water pipeline.

The Revenue for the increased appropriation will be provided as follows:

Section 2: To amend the Operating Expenses, the appropriation	ns are to be changed as follows:
Operating Expenditures:	Increase
5180-00 SRF/Parallel Expenditures	\$1,900,000
	\$1,900,000

Section 3: Copies of this Budget Amendment shall be furnished to the Budget Officer for direction in carrying out his duties.

Approved as to the availability of funds:

Tim H. Holloman, Finance Officer

This Budget Amendment was adopted on the 8th day of May 2023.

Norwood Blanchard, Chairman

ATTEST:

Patrick DeVane, Secretary

AGENDA ITEM

To: CHAIRMAN BLANCHARD AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: May 8, 2023

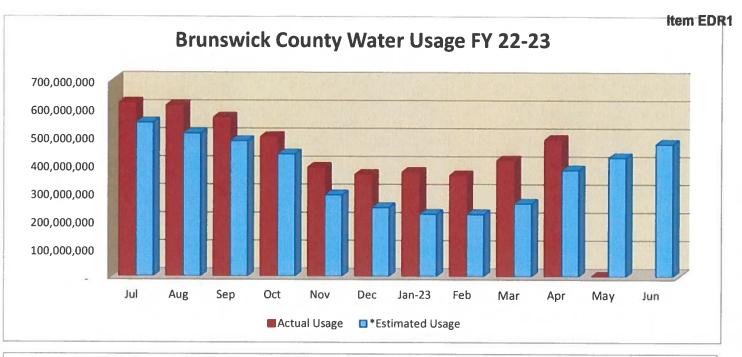
Re: Executive Director's Report

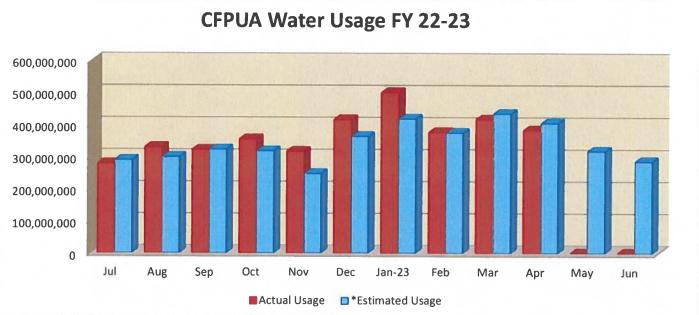
EDR1 - Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date Ending April 30, 2023

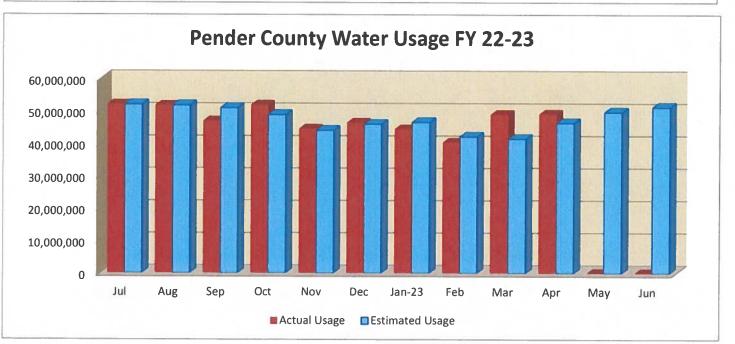
EDR2 - Operating Budget Status, Ending March 31, 2023

EDR3 - Summary of Activities.

Action Requested: For information purposes.







OPERATING FUND BUDGET PERFORMANCE

Jul-1 through Mar 31

	Jul-1 throug	h Mar 31				
	Approved	Approved	Jul 1- Mar 31	Jul 1- Mar 31	Jul 1- Mar 31	Budget
Income	Annual Budget #	djusted Budget	Kings Bluff	Bladen Bluffs	OF BUDGET	As of 03/31/2
3000-01 · OPERATING REVENUE						
3001-01 · 01 Bruns County Public Utility	1,566,597	1,606,437	1,507,992	Alexandra .	1,507,992	94%
3002-01 · 01 CFPUA	1,428,403	2,869,315	2,623,918		2,623,918	91%
3003-01 · 01 Pender County	199,518	551,428	497,750	A CAN LANS	497,750	90%
3004-01 · 01 HWY 421 - Stepan	79,618	141,566	178,070	TANK COL	178,070	126%
3005-01 · 01 Praxair, Inc	2,095	61,179	65,209	APA AND	65,209	107%
3006-01 · 01 Bladen Bluffs Revenue	3,654,318	4,673,818	AND AND	4,009,099	4,009,099	86%
Bladen Admin Reimb	102,190	102,190	Real Content	104,317	104,317	102%
3007-01 · Sales Tax Refund Revenue	100,000	100,000	110 H 0/25119	114,314	114,314	114%
Total 3000-01 · OPERATING REVENUE	7,132,739	10,105,933	4,872,939	4,227,731	9,100,670	90%
3100-00 · OF NONOPERATING REVENUE						
3120-00 · Revenue-Other						
Interest & Investment Revenue	500	500	134		134	27%
FEMA Reimbursement	0	o	6,630	THE PARTY	6,630	0%
Refunds / Insurance Proceeds/ Other	0	0	735	1,251	1,985	0%
3156-00 · Rental Income	0	0	12,112		12,112	
3900-01 R&R Fund Appropriated	. 0	0	0		0	0%
2900-00 Fund Balance	0	0	0		0	0%
Total 3100-00 · OF NONOPERATING REVENUE	500	500	19,611	1,251	20,862	4172%
'otal income	7,133,239	10,106,433	4,892,550	4,228,982	9,121,532	90%
xpense						
4000-01 · ADMINISTRATION EXPENDITURES						
4001-01 · Salary - gross	187,024	187,024	94,093	42,080	136,173	73%
4010-01 · Per Diem= mileage+per diem pay	62,500	62,500	27,243	14,063	41,305	66%
4012-01 - Vehicle Allowance	5,200	5,200	2,830	1,170	4,000	77%
4070-02 - Phone Allowance	520	520	283	117	400	77%
4015-01 · Payroll Taxes	19,542	19,542	9,397	4,397	13,794	71%
4029-01 · Retirement Employer's Part	22,462	22,462	11,144	5,054	16,198	72%
4035-01 · 401K Employer PD Contribution	5,311	5,311	2,788	1,195	3,983	75%
4036-01 · Payroli Processing Exp	2,900	2,900	2,101	ALC: NO PARTY OF	2,101	72%
4038-01 · Insurance Group	38,074	38,074	15,272	8,567	23,838	63%
4039-01 · Insurance, Property	94,301	94,301	54,087	21,218	75,305	80%
4046-00 Professional Services General	15,000	15,000	(0)	0	(0)	0%
4046-01 · Attorney	30,000	45,000	30,368		30,368	67%
4046-02 · Auditor	9,000	9,000	5,400	2,800	8,200	91%
4048-03 · Engineer	253,041	239,541	121,967	0	121,967	51%
4049-01 Information Technology	14,000	14,000	1,333	0	1,333	10%
4055-01 · Office Maint/Repair	23,902	23,902	10,517		10,517	44%
4058-01 Office Utilities	5,000	5,000	1,460	C. Carlos B	1,460	29%
4059-01 Office Expense	14,000	17,500	12,872		12,872	74%
4062-01 Office Equipment	10,000	15,000	10,595	派生命派	10,595	71%
4064-01 Printing & Advertising	6,500	7,500	5,241		5,241	70%
4065-01 Telephone and Internet	3,500	3,500	2,386	110	2,386	68%
4070-01 · Travel & Training	26,000	33,000	23,054		23,054	70%
4080-01 · Miscellaneous Expenses	15,000	23,000	17,556	All and a start of the	17,556	76%
Total 4000-01 · ADMINISTRATION EXPENDITURES	862,777	888,777	461,985	100,660	562,645	63%
4500-01 · OPERATING EXPENDITURES						
4501-00 · Sales Tax Expense - Other	100,000	100,000		79,346	79,346	79%
4510-01 · Bladen Bluffs Expenses	2,335,094	3,315,596	No. AND	2,595,710	2,595,710	78%
4520-01 · Utilities-Energy Pump Station	756,336	730,336	531,596	and all hear	531,596	73%
4530-01 · Kings Bluff O&M Expenses	510,822	549,822	334,599	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	334,599	61%
4535-01 Kings Bluff Hurricane Other FEMA	0	0	0	Barres P. St.	0	0%
4543-01 · Series 2012 Bond Principal (ST)	0	0	0	Sale States	0	0%
4544-01 · Series 2012 Bond Interest (ST)	0	0	0		0	0%
4545-01 · Series 2010 Bond Principal (BB)	850,000	910,000	a mean meaning	910,000	910,000	100%
4546-01 · Series 2010 Bond Interest (BB)	297,500	256,998		307,090	307,090	119%
7400-01 · Operating Capital Expense	911,675	2,846,069		2,114,615	2,114,615	74%
4998-05- Transfer to R&R- KB R&R Expense	250,000	250,000	250,000	THE REAL PROPERTY.	250,000	100%
2041-01- 421 Relocation NHC Loan Principal	258,835	258,835	States States	258,835	258,835	100%
Total 4500-01 · OPERATING EXPENDITURES	6,270,462	9,217,656	866,195	6,265,596	7,381,792	80%

Executive Director Highlighted Activities:

- Met with Senator Rabon and Senator Lee regarding funding for the last three miles of the 48" parallel line, SB 673. Senators suggested reviewing surface reservoir land acquisition and development again. They strongly encourage all authorities to seek out opportunities to regionalize operations.
- Met with Owners Advisor to review the scope and responses from Design Build Team.
- Meet with Design Build prospective team to review final scoping questions pending contract award.
- Participate in Pender County's 2nd Annual Business Expo.
- Present and Host Leadership Brunswick providing a presentation regarding the History and function of the Authority.
- Completed Virtual National Planning Conference.
- Work with Bladen Bluff and Financial Administrative Assistant regarding detailed Bladen Bluff Operations and Maintenance Budget.
- Work with State Authorities to secure permanent vehicle licensed tags again.
- Worked with Computer Warriors to enhance and upgrade security levels on Authority servers and computers.
- Continue to work with Partners on FY 2023-24 Budget.
- Met with Chairman and Director Rivenbark to review annual Evaluation.
- Worked with Attorney and Partners regarding sand mine permit letter.
- Worked with CFPUA and other State Authorities regarding H436 for permanent plates again.
- Participated in Second Quarter Water Source protection meeting.
- Staff completed in house Cyber Awareness training.