

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

**MEETING CALL TO ORDER:** Chairman Knight

**INVOCATION**

**PLEDGE OF ALLEGIANCE**

**APPROVAL OF CONSENT AGENDA**

- C1 – Minutes of August 12, 2024, Regular Board Meeting
- C2 – Kings Bluff Monthly Operations and Maintenance Report
- C3 – Bladen Bluffs Monthly Operations and Maintenance Reports
- C4 – Line-Item Adjustment for July 31, 2024
- C5 – Resolution for Recognition of National Source Water Protection Week Sept. 29 – Oct. 5<sup>th</sup>, 2024

**NEW BUSINESS**

- NB1 – Resolution to Approve Preliminary Design-Build Agreement, Scope of Work and Total Cost for Preconstruction — Project #2 of Phased 10-Mile Parallel Raw Water Line Project
- NB2 – Resolution Awarding Contract for Floor Renovation at the Kings Bluff Pump Station

**ENGINEER'S COMMENTS**

**ATTORNEY COMMENTS**

**EXECUTIVE DIRECTOR REPORT**

- EDR1 – Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date Ending August 30, 2024
- EDR2 – Operating Budget Status, Ending July 31, 2024
- 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, October 14<sup>th</sup> at 9:00 a.m. in the Authority's office located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina.*

## **AGENDA ITEM**

To: CHAIRMAN KNIGHT AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: September 9, 2024

Re: Consent Agenda

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

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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 August 12, 2024, Regular Board Meeting

**C2** – Kings Bluff Monthly Operations and Maintenance Report

**C3** – Bladen Bluffs Monthly Operations and Maintenance Report

**C4** – Line-Item Adjustment for July 31, 2024

**C5** – Resolution for Recognition of National Source Water Protection Week Sept. 29 – Oct. 5th, 2024

**Action Requested:** Motion to approve/disapprove Consent Agenda.

Lower Cape Fear Water & Sewer Authority  
Regular Board Meeting Minutes  
August 12th, 2024

Chairman Knight called the scheduled Authority meeting to order on August 12<sup>th</sup>, 2024, at 9:00 a.m. and welcomed everyone present. The meeting was held at the Authority's office located at 1107 New Pointe Boulevard, Suite 17, Leland, North Carolina. Director Leonard gave the invocation.

**Roll Call by Chairman Knight:**

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

**Present by Virtual Attendance:** Bill Saffo

**Absent:** None

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

**Guests Present:** Jorgen Holmberg, Computer Warriors; Glenn Walker, Brunswick County Water Resources Manager

**Guests Virtual Attendance:** Larry Froelich, Stepan Company Plant Manager; Anthony Colon, Pender County Utilities Director of Utilities; James Proctor, Pender County Utilities Deputy Director of Utilities; Erin Jones, Pender County Utilities Water Treatment Plant Superintendent

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

**APPROVAL OF CONSENT AGENDA**

**C1 – Minutes of July 8, 2024, Regular Board Meeting**

**C2 – Kings Bluff Monthly Operations and Maintenance Report**

**C3 – Bladen Bluffs Monthly Operations and Maintenance Reports**

**Motion:** Director DeVane **MOVED**; seconded by Director Blanchard, approval of the Consent Agenda Items C1-C3 with an update to show Director Rivenbark present. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

**NEW BUSINESS**

**NB1- Resolution Approving Acquisition of Approximately 30.74 Acre New Easement Area for Portion of Phased 10-Mile Parallel Raw Water Line Project**

Executive Director Holloman recommended the new water pipeline easement within the Seaboard rail easement. This easement will impact approximately 30.74 acres of the Conservation Easement property and is the preferred design, as it will have a lesser impact on the Subject Property and the Conservation Easement. Most of the effects will be within the rail right-of-way.

Jess Powell confirmed the previous easement ran through four solid waste management areas. Those sites are DEQ-monitored disposal sites. The new easement will avoid all four solid waste management areas. Chairman Knight confirmed with Jess Powell that no contamination was expected. Jess advised there are some groundwater areas around the site, and McKim & Creed had S&E out at the site to evaluate those areas. They have created an environmental management plan as part of the project if we encounter contaminated groundwater or soils and will advise us on how to dispose of the contaminants. Jess suggested the new easement will also save 2,000 linear feet, estimated to be a two- or three-million-dollar savings.

Director Zapple is concerned that the site is a known environmentally contaminated former industrial site. The report acknowledges the existence of industrial waste that could affect the property's value; however, the appraisal then makes assumptions on hypotheticals to justify the easement cost. Director Zapple is also concerned that no independent survey was completed on the site, and there is no warranty on the accuracy of the information in the report. Director Zapple questioned if, while digging along the easement, what happens if we run into solid waste and someone gets sick, then who is responsible?

Chairman Knight said from a nontechnical perspective that the appraiser will not give a warranty due to the unknowns of the older site. Chairman Knight asked Jess Powell if there was known contamination within the area. What do we expect, and do we have DEQ approval for the work?

Jess Powell stated that DEQ has approved it and signed off. If a contaminant is found, it would be the previous owner's responsibility. Director Zapple's concerns about contaminations were relieved with Chairman Knight's statement. Director Zapple is still concerned about the cost of the easement. He wanted to know if we could get a risk discount because the property is not usable for commercial or residential development. Director Sue stated he has been on both sides of purchasing and selling an easement, and the price for this easement is one that LCFWASA should approve. Director Zapple knows we need this pipeline, and he just wanted to confirm that LCFWASA is getting the best price for the easement. After issues were addressed, Director Zapple stated that he has no objections. Matt Nichols confirmed that the attorney, James Seay, would complete the Easement Settlement, and this property is subject to a conservation easement. This appraisal was acceptable and approved by the North Carolina Coastal Land Trust.

A copy of the appraisal report and easement map will be attached with the minutes.

**Motion:** Director Blanchard **MOVED**; seconded by Director Newton, to approve the Resolution Approving Acquisition of Approximately 30.74 Acre New Easement Area for Portion of Phased 10-Mile Parallel Raw Water Line Project. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

**NB2- Resolution Honoring and Celebrating the 90th Birthday of William “Bill” Sue**

**Motion:** Director Williams **MOVED**; seconded by Director Blanchard, to approve the Resolution Honoring and Celebrating the 90th Birthday of William “Bill” Sue. Upon voting, the **MOTION CARRIED UNANIMOUSLY**.

**ENGINEER’S COMMENTS**

Jess Powell stated we received approval from the US Army Corp permit for the open cut of the Cape Fear River.

**ATTORNEY COMMENTS**

No comments

**EXECUTIVE DIRECTOR REPORT**

**EDR1 – Comments on Customers’ Water Usage and Raw Water Revenue for Fiscal Year to Date Ending July 31, 2024**

Executive Director Holloman reported that during July, all customers were above projections.

**DIRECTOR’S COMMENTS AND/OR FUTURE AGENDA ITEMS**

Director Zapple is looking forward to an updated line-item report. Director Williams advised having an acronym list for the meeting would be helpful.

**PUBLIC COMMENT**

Glenn Walker with Brunswick County advised he will have an acronym list put at the bottom of the monthly Kings Bluff maintenance report.

**ADJOURNMENT**

There being no further business, Chairman Knight adjourned the meeting at 9:42 a.m.

Respectfully Submitted:

\_\_\_\_\_  
Scott Phillips, Secretary

# BRUNSWICK COUNTY PUBLIC UTILITIES

Kings Bluff Pump Station/LCFWASA

246 Private Rd. 703  
Reigelwood, NORTH CAROLINA 28456

MAILING ADDRESS  
P. O. Box 249  
BOLIVIA, NORTH CAROLINA 28422

TELEPHONE (910) 655-4799  
FAX (910) 655-4798

**TO: Tim Holloman**

**FROM: David Carson**

**DATE: 9/1/2024**

**SUBJECT: Monthly maintenance report for August 2024**

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**Mr. Holloman,**

The Maintenance and Operations of the King's Bluff facility (KB) for the month of August were performed as prescribed in the station SOP'S and other items are as follows. The diesel drive booster pumps along with the standby System Computer and Data Acquisition (SCADA) generator located at the raw tank and the SCADA generator located at INVISTA / CFPUA vaults off HWY 421 were run and tested weekly and verified standby ready.

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

KB personnel assisted Power Secure with quarterly preventative maintenance.

KB personnel assisted Underwood Pump & Inwater with installation of vortex suppressor.

KB personnel cleaned coils on air conditioning (HVAC) condensers 1, 2, & 3.

KB personnel replaced solenoid valves on air compressors 1 & 2.

KB personnel cleaned surge tank # 3 of silt and debris.

KB personnel installed signage in and around Kings Bluff.

KB personnel added antifungal solution to diesel tank and cycled generator.

KB personnel assisted Underwood Pump with the installation of hydraulic data logging sensors for pumps 1, 4&5.

KB personnel helped sewer collections with locating a possible break in storm drain at Kings Bluff.

**Contractors:**

Pursuit Cleaning came to Kings Bluff offices for weekly cleaning.

LJ's landscaping cut grass at Kings Bluff and Authority property.

Power Secure finished annual preventative maintenance (P.M.'s)

Underwood pump along with Inwater Technologies installed new vortex suppressor on pump #1.

Pridgen, O' Brien & Stanley gave HVAC quotes, W.B. epoxy, Newcomb came to Kings Bluff for quotes on new HVAC units & refinishing office floors.

**David Carson**

# Smithfield.

To: Tim Holloman - LCFWASA

From: James Kern – Bladen Bluffs SWTP ORC

Date: 9/4/24

Subject: August 2024 Operations

During the month of August, Bladen Bluffs SWTP operated a total of 17 days, treating 50.03 million gallons of water.

We used:

46,077 lbs. of aluminum sulfate (Alum)

13,739 lbs. of sodium hydroxide (Caustic)

1,790 lbs. of sodium hypochlorite (3,594 gallons of 6% Chlorine Bleach)

**James Kern**  
**Water Treatment Plant**  
**Supervisor**

(910) 862-3114  
(910) 862-3146  
(910) 733-0016 mobile  
[jkern@smithfield.com](mailto:jkern@smithfield.com)

**Smithfield.**

*Good food. Responsibly.®*

Bladen Bluffs Surface Water Treatment  
Plant  
17014 Highway 87 West  
Tar Heel, NC 28392  
[www.smithfieldfoods.com](http://www.smithfieldfoods.com)

## Bladen Bluffs SWTP Maintenance Report

Date: 9/4/2024

### ISSUE:

### PLAN OF ACTION:

|   |                                       |
|---|---------------------------------------|
| All PLC need updated                        | Getting new quote – Using new company |
| Vault intrusion electrical needs sealed     | Quote approved                        |
| Need to do full chemical pump PM            | Getting Parts - Tencarva              |
| Issue with Polymer pump #2                  | FIXED                                 |
| Chlorine leaks and few parts need replacing | FIXED                                 |
| HVAC in chemical building MCC - NA          | FIXED                                 |
| Additional chlorine leaks                   | FIXED                                 |
| Issue with HVAC in control room             | FIXED                                 |
| Mower will not start                        | FIXED                                 |

## Monthly Operating Reports (MORs) Summary

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

|                      |   |                          |
|----------------------|---|--------------------------|
| Year: <u>2024</u>    | PWS Name: <u>Bladen Bluffs Water System</u> | PWSID#: <u>NC5009012</u> |
| Month: <u>August</u> | Facility Name: <u>Bladen Bluff</u>          |                          |

### Combined Filter Effluent (CFE) Turbidity

|   |  |
|---|--|
| Samples exceeding 1 NTU (count): <u>0</u>   | Number of samples required: <u>93</u>              |
| Samples exceeding .3 NTU (count): <u>0</u>  | Number of samples taken: <u>93</u>                 |
| Samples exceeding .3 NTU (pct): <u>0.0%</u> | Highest single turbidity reading NTU: <u>0.173</u> |
|   | Monthly average turbidity NTU: <u>0.104</u>        |

### Individual Filter Effluent (IFE) Turbidity

|   |     |          |    |          |
|---|-----|----------|----|----------|
| 1) Was each filter <u>continuously</u> monitored for turbidity?   | Yes | <u>X</u> | No |          |
| 2) Was each filter's monitoring results <u>recorded every 15 minutes</u> ?  | Yes | <u>X</u> | No |          |
| 3) Was there a failure of the continuous turbidity monitoring equipment?  | Yes |          | No | <u>X</u> |
| 4) Was any individual filter turbidity level > 1.0 NTU in two consecutive measurements ?  | Yes |          | No | <u>X</u> |
| 5) Was any individual filter turbidity level > 0.5 NTU in two consecutive measurements at the end of 4 hours of operation after the filter has been backwashed or otherwise taken offline ? | Yes |          | No | <u>X</u> |
| 6) Was any individual filter turbidity level > 1.0 NTU in two consecutive measurements in each 3 consecutive months ?   | Yes |          | No | <u>X</u> |
| 7) Was any individual filter turbidity level > 2.0 NTU in two consecutive measurements in 2 consecutive months ?  | Yes |          | No | <u>X</u> |

### Entry Point Residual Disinfectant Concentration (EPRD)

|  |                                      |
|--|--------------------------------------|
| Disinfectant Used <u>Chlorine</u>        | Number of samples required <u>93</u> |
| Minimum EPRD concentration <u>0.4900</u> | Number of samples taken <u>93</u>    |

### Distribution Residual Disinfectant Concentration

|   |          |
|---|----------|
| Number of samples under 0.010 mg/L (without any detectable) excluding where HPC is ≤ 500/mL | <u>0</u> |
|---|----------|

### Contact Time (CT) Ratio

|  |  |
|--|--|
| Lowest CT ratio reading <u>16.60</u>   | Number of CT ratios required <u>17</u>   |
| Number of CT ratios below 1.0 <u>0</u> | Number of CT ratios calculated <u>17</u> |

### Remarks From General Info Worksheet

By checking this box, the ORC certifies that the requirements of 15A NCAC 18C .1301 "General Requirements", .1302 "Tests, Forms, and Reporting", and .1303 "Facility Oversight" have been met for the month of August, 2024 and that records documenting compliance with this rule are maintained on the premises and available for inspection upon request.

NCDENR/DEH  
PWSS  
Version: V02.10-00

|                    |             |  |
|--------------------|-------------|--|
| COMPLETED BY:      | James Kern  |  |
| CERTIFICATE GRADE: | A - Surface | CERTIFICATE NUMBER: <span style="border: 1px solid black; padding: 2px;">120147</span> |



**CONSENT AGENDA (C4)**

**Lower Cape Fear Water & Sewer Authority**

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

**LINE-ITEM ADJUSTMENTS FOR 07/31/2024**

| <b>Operating Fund:</b>         | <b>Line-Item Budget Amount prior to Adjustment</b> | <b>Decrease</b>   | <b>Increase</b> | <b>Budget Amount as of 07/31/2024</b> |
|--------------------------------|--|-------------------|-----------------|---------------------------------------|
| <b>Expenses</b>                |  |                   |                 |                                       |
| 4047-01 Auditor                | \$8,000  |                   | \$2,500         | \$10,500                              |
| 4064-01 Printing & Advertising | \$8,000  |                   | \$4,000         | \$12,000                              |
| 4080-01 Miscellaneous Expense  | \$20,000   |                   | \$5,000         | \$25,000                              |
| 4048-01 Engineer               | \$175,000  | \$(11,500)        |                 | \$163,500                             |
|                                |  |                   |                 |                                       |
|                                |  |                   |                 |                                       |
| <b>Total</b>                   | <b>\$ 211,000</b>                                  | <b>\$(11,500)</b> | <b>\$11,500</b> | <b>\$ 211,000</b>                     |
|                                |  |                   |                 |                                       |
|                                |  |                   |                 |                                       |



**Resolution for Recognition of  
National Source Water Protection Week**

**WHEREAS**, the Board of Directors for Lower Cape Fear Water & Sewer Authority (“the Authority”) wishes to provide and promote the importance of source water to the region; and

**WHEREAS**, the health, prosperity, and quality of life of the Lower Cape Fear Region citizens and communities depend on a reliable supply of safe, high quality drinking water;

**WHEREAS**, protecting our drinking water is essential to preserve our own health and economy and that of future generations;

**WHEREAS**, we strive to build opportunities and work together to ensure clean, safe source water for all;

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

**WHEREAS**, Residents and Businesses of the Lower Cape Fear Region are encouraged to recognize this precious resource and help conserve the watersheds that are the source of our water, protect our shared water resources from pollution, practice water conservation, become involved in local water issues, and plan to protect water for future community health and economic vitality;

**THEREFORE, BE IT RESOLVED**, by the Chairman and the Board of Directors for the Lower Cape Fear Water & Sewer Authority that September 29<sup>th</sup> to October 5<sup>th</sup>, 2024, is proclaimed as Source Water Protection Week

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

**Adopted this 9<sup>th</sup> day of September 2024**

\_\_\_\_\_  
**Harry Knight, Chairman**

**ATTEST:**

\_\_\_\_\_  
**Scott Phillips, Secretary**

**New Business (NB1)**

**Lower Cape Fear Water & Sewer  
Authority**

## **AGENDA ITEM**

To: CHAIRMAN KNIGHT AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: September 9, 2024

Re: Resolution to Approve Preliminary Design-Build Agreement, Scope of Work and Total Cost for Preconstruction — Project #2 of Phased 10-Mile Parallel Raw Water Line Project

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

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**Background:** The Design-Build evaluation 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/disapprove.

**Lower Cape Fear Water and Sewer Authority Resolution to Approve and Award  
Preliminary Design-Build Agreement, Scope of Work and Total Cost for  
Preconstruction — Project #2 of Phased 10-Mile Parallel Raw Water Line Project**

**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 and Authorizing Use of the Design-Build Delivery Method for a Phased 10-Mile Parallel Raw Water Line Project for the Lower Cape Fear Water and Sewer Authority*, in which the Board determined that the design-build delivery method is appropriate for the project and authorized LCFWASA’s Executive Director to move forward with the use of the design-build delivery method for the phased 10-mile parallel raw water line project;

**WHEREAS**, due to project funding and planning requirements, upon consultation with LCFWASA’s Owner’s Advisor HDR Engineering, Inc. of the Carolinas (“HDR”) and participating entities, LCFWASA has divided the phased 10-mile parallel raw water line project into Project #1, which consists of the first approximately 7 miles of the project, and Project #2, which consists of the remaining approximately 3 miles of the project, including phasing for both Project #1 and Project #2;

**WHEREAS**, following advertisement and readvertisement of a Request for Qualifications for design-build firms for Project #2, LCFWASA’s design-build evaluation committee evaluated the sole response received from the design-build team of Garney Companies, Inc. and McKim & Creed, Inc. (“Garney–M&C”) and ranked Garney–M&C as the highest-ranked design-build team in accordance with the established evaluation criteria;

**WHEREAS**, pursuant to LCFWASA Board Resolution adopted July 8, 2024, the Board awarded the design-build contract for Project #2 of the phased 10-mile parallel raw water line project to Garney–M&C as the highest ranked design-build team, subject to compliance with all State and Federal funding requirements and receipt of payment from participating entities;

**WHEREAS**, the Board’s July 8, 2024 Resolution instructed LCFWASA’s design-build evaluation committee and LCFWASA’s Owner-Advisor HDR to develop and arrive at a proposed scope of work and preliminary design-build agreement with Garney–M&C for Project #2, subject to Board review and approval; 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 for Project #2 includes a total cost for preconstruction of \$835,037.00.

**NOW, THEREFORE, BE IT RESOLVED**, by the Chairman and LCFWASA Board of Directors, that the LCFWASA Board does hereby approve the scope of work and total cost for preconstruction of

\$835,037.00 for the preliminary design-build agreement and hereby award the contract to design-build team Garney Companies, Inc. and McKim & Creed, Inc. for Project #2 of the phased 10-mile parallel raw water line project, subject to compliance with all State and Federal funding requirements and receipt of payment from participating entities.

**BE IT FURTHER RESOLVED**, that the LCFWASA Board Chairman is hereby authorized to execute DBIA Contract Document #520 - Standard Form of Preliminary Agreement Between Owner and Design-Builder with selected design-builder Garney Companies, Inc. on behalf of LCFWASA for Project #2 of the phased 10-mile parallel raw water line project, subject to review and approval as to form by LCFWASA’s attorney.

A copy of this Resolution shall be recorded in the permanent minutes of this Board.

**This Resolution was adopted on the \_\_\_\_\_ day of September 2024.**

\_\_\_\_\_  
**Harry Knight, Chairman**

**ATTEST:**

\_\_\_\_\_  
**Scott Phillips, Secretary**

# ATTACHMENT A

## Task 100 – Preliminary Design Phase

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. We understand the project corridor as shown below in Fig. 1 as a magenta line and the following scope of work is based on the assumed project corridor.



**Fig. 1**

Pipe Material Analysis and Hydraulic Modeling/Capacity Analysis for this section of pipeline was completed in the PER for the previous phase. 54" steel pipe will be utilized for project.

- 1) Routing Evaluations – The LCFWSA has sufficient easement for the new pipeline up to the US 421 right of way. The existing 48-inch pipe was installed within the US 421 right of way and sufficient room for a parallel 54-inch pipeline does not exist. Therefore, it is anticipated that a utility easement will need to be acquired for the portion along the US 421 corridor. In addition to permanent easements, McKim & Creed will identify potential areas that temporary access and/or construction easements may be required for the project. As part of the PER, McKim & Creed will develop a routing analysis to identify potential challenges and issues related to the

## ATTACHMENT A

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 (SRF) requirements for adherence to Uniform Relocation Assistance and Real Property Acquisitions Act will be met.

As part of this scope of work, McKim and Creed will facilitate and coordinate with LCFWSA attorney and any outside council assisting with the easement process across all aspects from beginning identification of parcels and routes through meeting with landowners and negotiating terms and conditions of the easement(s).

- 2) Corrosion Control Evaluation – 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 Duke Energy and Piedmont Natural Gas (PNG) as part of this evaluation to determine potential corrosion issues resulting from construction of the proposed main within the vicinity of existing power transmission mains and gas mains. This will include required protective measures for stray currents for the gas pipeline systems. Maggart will visit the site to measure soil resistivity and evaluate potential locations of test stations and AC mitigation facilities. Findings from the field investigations will be provided in the PER.
  
- 3) Strategic Interconnections with Existing 48-Inch PCCP and Industrial Customers – Garney and McKim and Creed will evaluate locations and options for interconnections with the existing 48-inch pipeline to provide CFPUA and the industrial customers along this 3-mile section of pipeline full redundancy in the event one of the two pipelines is out of service. The recommended configuration(s) will be provided in the PER. Includes new interconnection and meter vault near existing 48" line and CFPUA meter vault. At least one additional interconnect is required upstream near one of the industries to provide full redundancy with both pipelines to these customers. This will require additional US 421 crossing. The DB team will have to design interconnections maintaining service to all 3 customers on US 421 (CFPUA and industries) for both interconnections. The design will need to be coordinated with the owner and CFPUA for review, comments and concerns
  
- 4) Maintenance of Operations – 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.

## ATTACHMENT A

- 5) NCDOT Roadway Crossings – 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.
- 6) Seaboard Rail Crossing – Preliminary review of the project indicates at least one railway crossing will be required. McKim & Creed will contact the respective owner(s) of the railway and determine the permitting process to acquire an encroachment agreement for the proposed project. Based on review of the crossing, McKim & Creed anticipates trenchless construction will be required.
- 7) PNG and Duke Power Crossings – A 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. Preliminary review also indicates a gas transmission main in the vicinity of the power transmission easement. We will consult with the power utility to determine crossing requirements, separation from structures, etc. and provide recommendations as pertinent to the PER.
- 8) Permitting and Regulatory Requirements – based on the proposed route and project scope, permitting, and anticipated regulatory agency requirements will be identified in the PER.
- 9) Workshop Meetings - McKim & Creed will conduct workshop meetings with project partners during development of the PER document to discuss findings and recommendations. This scope of work assumes three (3) workshop meetings will be required.
- 10) Magnitude of Cost – Garney will do a magnitude of cost for project along with a risk register for review.

### 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**

Land Borings - Using a drill rig mounted on a track carrier. Fourteen (14) Standard Penetration Test (SPT) borings 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 two (2) highway crossing locations, we will perform a



## ATTACHMENT A

Standard Penetration Test (SPT) boring to a target depth of 20 feet each. Borings will be advanced to the target depth, or until auger difficulty, 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) One standard Proctor test upon a bulk composite sample
  
- 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 sketch.
  - 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 HDD pits.

Note that Task 200 will commence once the pipeline route has been determined.

### Task 300 – 30% 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:

- 4) Aerial and Conventional Field Surveys –
  - All survey work will be performed to the Standards of Practice for Land Surveying in North Carolina.
  - Horizontal control will be based on the control set for the Easement Staking project throughout the +/-16,000 linear feet of the corridor.
  - Horizontal Control is based on NAD83 (2011), and Vertical Control will be based on NAVD88 (GEOID18).
  - Establish Vertical Control through horizontal control points.
  - Locate buildings, roads, parking, paved areas, concrete areas and pads, sidewalks, bollards, curbing, signs, and fences.

## **ATTACHMENT A**

- Locate curb inlets, catch basins, yard inlets, junction boxes, drainage pipes, culverts along with material, size, and invert elevations.
- Locate utilities such as utility poles, area lights, transformer pads, pedestals, fire hydrants, water meters, water valves, cleanouts, sanitary sewer manholes where above ground visible evidence is observed.
- Show breaks in grade, high points, low points, ponds, ditches, and waterways
- Locate wetlands and jurisdictional ditches flagged by others.
- Locate creek/stream crossings.
- Locate trees to New Hanover County Standards that fall within the proposed easements.
- Locate public right of ways adjacent to the corridor.
- Contours will be drawn at 1-foot intervals.
- Maps will be drawn at an appropriate scale for 24X36 sheet
- Easement Maps will be drawn at an appropriate scale for recording in New Hanover County.
- Provide Topographic Survey map signed and sealed by a professional land surveyor in the state of North Carolina.

### **Conventional Survey - Assumptions**

- Field crews will have access to the corridor at the time of survey.
- Preliminary wetland delineation maps will be provided to McKim & Creed at the time of the survey.
- This estimate includes eight (8) easement maps to New Hanover County.
- Easement linework will be provided to McKim & Creed once the utility corridor has been established.
- If additional easement maps or revisions occur after we have drafted an easement map, additional maps will be drafted at our unit cost.
- Any work not specifically described in the scope of work will be considered additional services and will be performed at our hourly rates.

### **Conventional Survey – Additional Services**

- Boundary Survey
- Recorded plats
- Pumpstation Survey
- Jurisdictional Determination Maps
- Right of way / easement negotiations / acquisition
- Record or as-built surveys
- Preparation and attendance at court appearances for litigation
- Construction staking
- Project schedule extensions beyond our control
- Providing project deliverables in formats other than those indicated
- Title Research/Title Reports

## ATTACHMENT A

ALTA surveys

### **LiDAR Processing**

To ensure geometric accuracy of the point cloud, we will calibrate the LiDAR swaths relative to each other and the ground control.

The LiDAR will be classified using a combination of automated and manual edit/reclassification processes to support the generation of one-foot contours, and will be coded as:

- 1 – processed, but unclassified
- 2 – Bare-earth ground
- 7 – noise (low or high; manually identified, if needed)

### **Topographic Mapping**

Map features will include any visible features at a 1"=50' scale as depicted in Appendix B of the USACE Engineer Manual (EM 1110-1-1000, 30 Apr 15). The bare-earth model key points from the LiDAR will be merged with any extracted/compiled topographic features to produce a Digital Terrain Model (DTM) suitable for 1-foot contours. This surface model will be included in the delivered DTM file. For cartographic purposes we will generate a separate smoothed one-foot contour interval file that will remove the minor variations and irregularities of the surface file while still maintaining accuracy.

### ***Obscured and Obstructed Features***

The LiDAR sensor we propose for this project has proven successful for similar projects and is especially suited to collecting ground returns through vegetation. Based on the provided Area of Interest we do not expect to see any obscured areas; however, in areas that are obscured and/or obstructed, terrain and feature collection may be limited. These areas will be outlined with an "obscured area" polygon. Additional ground survey may be required to collect data in these areas.

### **Orthophotography (*entire flight coverage*)**

**This portion was completed during Phase 2 of this project.**

### **Data Accuracies**

Based on ASPRS 1"=50' and 1' contours

#### **Horizontal**

Data set will be produced to meet ASPRS Positional Accuracy Standards for Digital Geospatial Data (2014) for a 15 cm RMSE<sub>x</sub> / RMSE<sub>y</sub> Horizontal Accuracy Class which equates to Positional Horizontal Accuracy = +/- 36.7 cm at 95% confidence level.

## ATTACHMENT A

### **Vertical**

Data set will be produced to meet ASPRS Positional Accuracy Standards for Digital Geospatial Data (2014) for a 10 cm RMSEz Vertical Accuracy Class equating to NVA = +/- 19.6 cm at 95% confidence level and VVA = +/- 30 cm at the 95<sup>th</sup> percentile.

### **Aerial Deliverables**

Final products included:

- CAD
  - TOPO.dwg (containing surface model)
  - Contours.dwg (cartographically smoothed)
  - Tile\_Index.shp
- Orthos
  - "tile#" .tif/.tfw
  - "tile#" .ecw/.eww
- LiDAR
  - Bare Earth LAS
    - "tile#" .las
  - All Points LAS
    - "tile#" .las

\*other formats can be provided upon request.

2) **Subsurface Utility Engineering (SUE)** – 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.
- McKim & Creed will perform electromagnetic (EM) and ground penetrating radar (GPR) designating to map all existing underground non-gravity utilities. McKim & Creed will perform full QL-B Sue services to designate and map all non-gravity utilities on US 421, 30ft outside the southside ROW.
- McKim & Creed will perform full QL-B Sue services in two separate areas 300ft x 150ft ROW to ROW. One of the two areas will have an additional area of QL-B performed, 550ft x 30ft from the southside ROW heading south across the railroad tracks.
- McKim & Creed will also designate a 48" watermain at 500ft intervals for a distance of approximately 5,570LF. All work will be performed along US 421in Wilmington, NC.
- McKim & Creed will also perform fifteen (15) QL-A test holes. Test hole locations will be designated by the client at a later date.
- 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*

## ATTACHMENT A

### *and Depiction of Existing Subsurface Utility Data*

- 3) **Easement Maps** - This scope of work includes eight (8) easement maps to New Hanover County or Pender County standards depending on the location of the property. If additional easement maps or revisions are required, they will be paid for under the Unallocated Project Budget as identified in this proposal.
- 4) **30% Submittal** – 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 for portions along US 421. If alternate routing deviates from this general alignment, additional design efforts and associated fees may be required.
  - Preliminary NCDOT roadway crossings.
  - 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.
  - Revised magnitude of cost and risk register showing changes.
  - Cost impacts for different route evaluations
  - Preliminary construction schedule

The 30% design deliverable will include five (5) hard copies and electronic format (PDF) copy.

### **Task 400 – 75% Design Phase Services**

## ATTACHMENT A

5) 75% Design Submittal - 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 100% 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 for portions along US 421. If alternate routing deviates from this general alignment, additional design efforts and associated fees may be required.
- Prepare plan and profile sheets at a horizontal 1" = 50' scale and a vertical 1" = 5' scale.
- Provide 75% design of 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 preliminary staging and storage areas, limits of construction, etc. and clearing limits.
- Corrosion control design.
- Identify basic erosion and sedimentation control measures.

The 75% design deliverable will include five (5) hard copies and electronic format (PDF) copy.

### Task 500 – GMP Development

## ATTACHMENT A

After the 75% Workshop McKim and Creed/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 600 – 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/401 Water Quality                     | USACOE/DEQ        |
| Duke Energy Transmission Line Encroachment     | Duke Energy       |
| Railroad Crossing Encroachment                 | TBD               |

An allowance for the costs of permit application fees are included in the proposal in Task 900. 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 700 – Outside Council Allowance for Easement Acquisition

## ATTACHMENT A

This task will be set aside as project budget to provide for allowance for outside council assistance and related expenses with easement acquisition and coordination. Garney will not utilize or expend funds from this task without written authorization from the project partners. Any unused funds from this Task shall be liquidated and returned to LCFWSA.

### Task 800 – 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.

### Task 900 – 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.

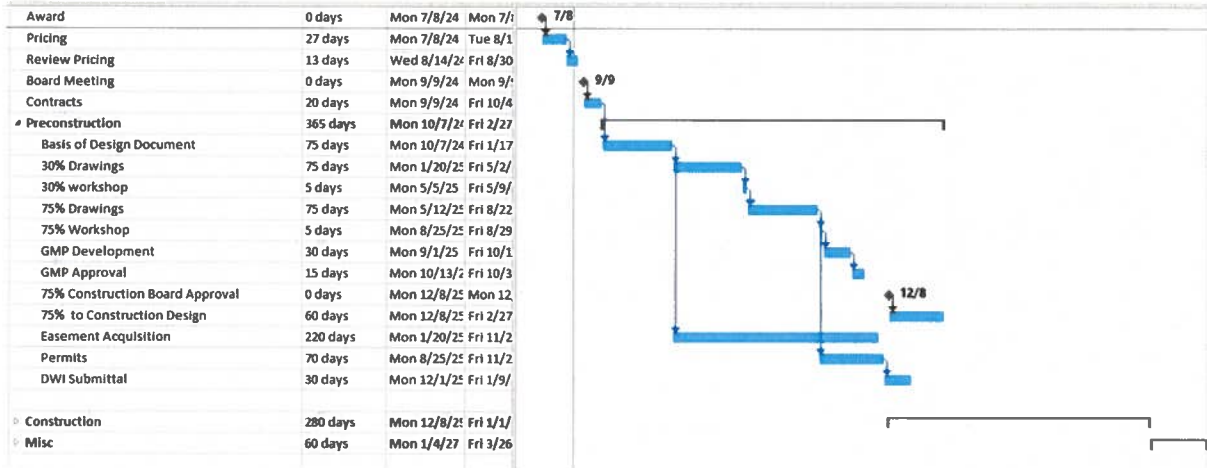
### FEE BREAKDOWN

| Task         | Description                           | Total Fee            | Task Percent of Total Fee |
|--------------|---------------------------------------|----------------------|---------------------------|
| 100          | Preliminary design/route              | \$ 133,235           | 18.1%                     |
| 200          | Geotechnical/sub support              | \$ 69,639            | 9.5%                      |
| 300          | 30% design                            | \$ 264,879           | 36.0%                     |
| 400          | 75% design                            | \$ 182,976           | 24.9%                     |
| 500          | GMP                                   | \$ 15,986            | 2.2%                      |
| 600          | Permitting                            | \$ 68,322            | 9.3%                      |
| <b>Total</b> |                                       | <b>\$ 735,037</b>    | <b>100.0%</b>             |
| Task         | Unallocated Costs                     | Total Fee            |                           |
| 700          | Outside Council for Easements         |                      |                           |
| 800          | Unallocated Costs                     | \$ 100,000           |                           |
| 900          | Permit Fee Allowance                  |                      |                           |
| <b>Total</b> |                                       | <b>\$ 100,000.00</b> |                           |
|              |                                       |                      |                           |
|              | Garney Scope of work                  | \$ 49,888            |                           |
|              | Garney Fee on scope                   | 10% \$ 4,989         |                           |
|              | M&C scope (With Subs)                 | \$ 624,000           |                           |
|              | Garney Fee on Engineering Services    | 9% \$ 56,160         |                           |
|              | Summary of Allowance Cost             | \$ 100,000           |                           |
|              | <b>Total cost for Preconstruction</b> | <b>\$ 835,037</b>    |                           |



# ATTACHMENT A

## PRE-CONSTRUCTION SCHEDULE



END OF ATTACHMENT A

| Task | Description              | Garney    | 10% mark up | Total Garney Cost | MC Cost    | 9% markup | Total MC cost | Total Fee  | Task Percent of Total Fee |
|------|--------------------------|-----------|-------------|-------------------|------------|-----------|---------------|------------|---------------------------|
| 100  | Preliminary design/route | \$ 14,600 | \$ 1,460    | \$ 16,060         | \$ 107,500 | \$ 9,675  | \$ 117,175    | \$ 133,235 | 18.1%                     |
| 200  | Geotechnical/sub support | \$ 1,872  | \$ 187      | \$ 2,059          | \$ 62,000  | \$ 5,580  | \$ 67,580     | \$ 69,639  | 9.5%                      |
| 300  | 30% design               | \$ 12,890 | \$ 1,289    | \$ 14,179         | \$ 230,000 | \$ 20,700 | \$ 250,700    | \$ 264,879 | 36.0%                     |
| 400  | 75% design               | \$ 7,796  | \$ 780      | \$ 8,576          | \$ 160,000 | \$ 14,400 | \$ 174,400    | \$ 182,976 | 24.9%                     |
| 500  | GMP                      | \$ 10,074 | \$ 1,007    | \$ 11,081         | \$ 4,500   | \$ 405    | \$ 4,905      | \$ 15,986  | 2.2%                      |
| 600  | Permitting               | \$ 2,656  | \$ 266      | \$ 2,922          | \$ 60,000  | \$ 5,400  | \$ 65,400     | \$ 68,322  | 9.3%                      |
|      | <b>Total</b>             | \$ 49,888 | \$ 4,989    | \$ 54,877         | \$ 624,000 | \$ 56,160 | \$ 680,160    | \$ 735,037 | 100.0%                    |

| Task | Unallocated Costs             | Garney | Garney | M&C | Total Fee     |
|------|-------------------------------|--------|--------|-----|---------------|
| 700  | Outside Council for Easements |        |        |     |               |
| 800  | Unallocated Costs             |        |        |     | \$ 100,000    |
| 900  | Permit Fee Allowance          |        |        |     |               |
|      | <b>Total</b>                  |        |        |     | \$ 100,000.00 |

|                                       |     |            |
|---------------------------------------|-----|------------|
| Garney Scope of work                  |     | \$ 49,888  |
| Garney Fee on scope                   | 10% | \$ 4,989   |
| M&C scope (With Subs)                 |     | \$ 624,000 |
| Garney Fee on Engineering Services    | 9%  | \$ 56,160  |
| Summary of Allowance Cost             |     | \$ 100,000 |
| <b>Total cost for Preconstruction</b> |     | \$ 835,037 |



ADVANCING WATER

Design Build Pre-Construction Phase Services

48" Parallel Raw Water Line

ESTIMATE FOR PROGRESS PAYMENT- ITEMIZED LABOR HOUR BREAKDOWN

| Scope of Services  | Project Management     |             |                     |               | Cost Estimator(s) |             | Superintendent    | Total Hours | Total Labor Costs  |
|--|------------------------|-------------|---------------------|---------------|-------------------|-------------|-------------------|-------------|--------------------|
|  | Region Manager (Keith) | Snr PM (CJ) | Assistant PM (Alex) | Safety (Mike) | Snr Est (Mike)    | Project Man | Gen. Supt (Pedro) |             |                    |
|  | Hourly rate            | \$234.00    | \$196.00            | \$136.00      | \$128.00          | \$151.00    | \$163.00          |             |                    |
| <b>A. Labor Costs</b>                                      |                        |             |                     |               |                   |             |                   |             |                    |
| <b>Task 100 - Preliminary Design Phase / DB Onboarding</b> |                        |             |                     |               |                   |             |                   |             |                    |
| Project Review Meeting(s)                                  |                        | 4           | 4                   |               |                   |             |                   | 8           | \$1,328            |
| Site Visits  |                        | 8           | 8                   |               |                   |             |                   | 16          | \$2,656            |
| Route Survey and alternatives                              |                        | 8           |                     |               | 4                 |             |                   | 12          | \$2,172            |
| Easement Support   |                        | 40          |                     |               | 4                 |             |                   | 44          | \$8,444            |
| <b>Subtotal - Initial Design Phase</b>                     |                        | <b>60</b>   | <b>12</b>           |               | <b>8</b>          |             |                   | <b>80</b>   | <b>\$14,600.00</b> |
| <b>Task 200 - Geotechnical/subcontractor</b>               |                        |             |                     |               |                   |             |                   |             |                    |
| Coordinate with subcontractors                             |                        | 4           | 8                   |               |                   |             |                   | 12          | \$1,872            |
| <b>Subtotal - Subcontractors</b>                           |                        | <b>4</b>    | <b>8</b>            |               |                   |             |                   | <b>12</b>   | <b>\$1,872.00</b>  |
| <b>Task 300 - 30% Design Phase</b>                         |                        |             |                     |               |                   |             |                   |             |                    |
| Design Review w/ Report **                                 |                        | 2           | 4                   |               |                   |             |                   | 6           | \$936              |
| Site Visits  |                        | 4           | 8                   |               |                   |             |                   | 12          | \$1,872            |
| Route Survey and alternatives                              |                        | 4           | 8                   |               | 2                 |             |                   | 14          | \$2,174            |
| Design Review Meetings                                     |                        | 8           | 8                   |               |                   |             |                   | 16          | \$2,656            |
| VE & Constructability Review                               |                        | 4           | 8                   | 4             |                   |             |                   | 16          | \$2,384            |
| Cost Estimates   |                        | 4           | 4                   |               | 4                 |             |                   | 12          | \$1,932            |
| Project Schedule   |                        | 2           | 4                   |               |                   |             |                   | 6           | \$836              |
| <b>Subtotal - 30% Design Phase</b>                         |                        | <b>28</b>   | <b>44</b>           | <b>4</b>      | <b>6</b>          |             |                   | <b>82</b>   | <b>\$12,890</b>    |
| <b>Task 400 - 75% design Phase</b>                         |                        |             |                     |               |                   |             |                   |             |                    |
| Design Review w/ Report **                                 |                        |             |                     |               |                   |             |                   | -           | \$0                |
| Design Review Meetings                                     |                        | 12          | 8                   |               |                   |             |                   | 20          | \$3,440            |
| VE & Constructability Review                               | 4                      | 8           | 4                   | 4             |                   |             | 4                 | 24          | \$4,356            |
| <b>Subtotal 75% design phase</b>                           | <b>4</b>               | <b>20</b>   | <b>12</b>           | <b>4</b>      | <b>-</b>          | <b>-</b>    | <b>4</b>          | <b>44</b>   | <b>\$7,796.00</b>  |
| <b>Task 500 -GMP</b>                                       |                        |             |                     |               |                   |             |                   |             |                    |
| Cost GMP with Risk register                                | 4                      | 8           | 12                  |               | 8                 |             | 2                 | 34          | \$5,742            |
| GMP Construction Schedule                                  |                        | 4           | 4                   |               |                   |             |                   | 8           | \$1,328            |
| Get quotes from Subs/supplier and evaluate                 |                        | 4           | 8                   |               |                   |             |                   | 12          | \$1,872            |
| GMP Workshop meeting                                       | 2                      | 2           | 2                   |               |                   |             |                   | 6           | \$1,132            |
| <b>Subtotal - GMP</b>                                      | <b>6</b>               | <b>18</b>   | <b>26</b>           | <b>-</b>      | <b>8</b>          | <b>-</b>    | <b>2</b>          | <b>60</b>   | <b>\$10,074.00</b> |
| <b>Task 600 - Permitting</b>                               |                        |             |                     |               |                   |             |                   |             |                    |
| Design Review w/ Report **                                 |                        | 8           | 8                   |               |                   |             |                   | 16          | \$2,656            |
| <b>Subtotal - Permitting</b>                               | <b>-</b>               | <b>8</b>    | <b>8</b>            | <b>-</b>      | <b>-</b>          | <b>-</b>    | <b>-</b>          | <b>16</b>   | <b>\$2,656.00</b>  |
| <b>Section A. Total</b>                                    | <b>10</b>              | <b>138</b>  | <b>110</b>          | <b>4</b>      | <b>22</b>         | <b>-</b>    | <b>6</b>          | <b>234</b>  | <b>\$49,888.00</b> |
| <b>B. Labor Costs (allowances)</b>                         |                        |             |                     |               |                   |             |                   |             |                    |
| <b>Task 700 - Easements</b>                                |                        |             |                     |               |                   |             |                   |             |                    |
| Easement support   |                        |             |                     |               |                   |             |                   | -           | \$0                |
| <b>Subtotal - Easements</b>                                | <b>-</b>               | <b>-</b>    | <b>-</b>            | <b>-</b>      | <b>-</b>          | <b>-</b>    | <b>-</b>          | <b>-</b>    | <b>\$0.00</b>      |



## AGENDA ITEM

To: CHAIRMAN KNIGHT AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: September 9, 2024

Re: Resolution Awarding Contract for Floor Renovation at the Kings Bluff Pump Station

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

---

**Background:** The floor at the Kings Bluff Pump Station has experienced wear and degradation over time, creating the need for significant repairs. The Authority has solicited bids and received proposals for the renovation work, which includes removal of the old flooring, surface preparation, and installation of a durable, non-slip industrial floor coating to ensure safety and longevity.

**Action Requested:** Motion to approve/disapprove.

**LOWER CAPE FEAR WATER AND SEWER AUTHORITY RESOLUTION AWARDDING CONTRACT FOR FLOOR RENOVATION AT THE KINGS BLUFF PUMP STATION**

WHEREAS, Lower Cape Fear Water and Sewer Authority (“LCFWASA”) has undertaken a thorough assessment of LCFWASA’s Kings Bluff Pump Station facilities and continues to update and maintain its physical buildings and operational equipment;

WHEREAS, the flooring in the Kings Bluff Pump Station needs renovation;

WHEREAS, LCFWASA’s Executive Director has investigated the procurement of renovation services for the flooring at the King’s Bluff Pump Station and has obtained four bids for the proposed work;

WHEREAS, the Executive Director reports that of the four bids received, Anderson Painting & Power Washing’s bid is the only bid that fully meets LCFWASA’s requirements;

WHEREAS, the Executive Director reports that of the four bids received, Anderson Painting & Power Washing is the lowest responsive, responsible bidder;

WHEREAS, LCFWASA has determined that it is in the public interest to accept Anderson Painting bid because it is within LCFWASA’s budget for the project, and Anderson Painting is the lowest responsive, responsible bidder; and,

WHEREAS, the Board wishes to award the contract for the floor renovation at the Kings Bluff Pump Station to Anderson Painting.

**NOW, THEREFORE, BE IT RESOLVED** by the Chairman and Directors of the LCFWASA Board that the bid received from Anderson Painting for the floor renovations at the Kings Bluff Pump Station in the amount of \$15,912.50 is hereby accepted. The Board of Directors designates that the Chairman and the Executive Director are duly authorized to execute a contract with Anderson Painting for the above-referenced matter on behalf of LCFWASA in the amount of \$15,912.50, subject to review and approval of the contract as to form by LCFWASA’s attorney.

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

Adopted this \_\_\_\_\_ day of September 2024.

\_\_\_\_\_  
Harry Knight, Chairman

**ATTEST:**

\_\_\_\_\_  
Scott Phillips, Secretary



WB EPOXY FLOORS INC.  
 1121 MILITARY CUTOFF ROAD  
 Suite C #261  
 WILMINGTON, NC 28405  
 910-512-0005

Lower Cape Fear Water                      Job Proposal                      August 21, 2024  
 & Sewer Authority  
 C/O Tim Holloman  
 246 Private Rd  
 Riegelwood, NC 28456

Prepare surface, Tape, grind, clean, patch any cracks, profile  
 Existing vinyl floor, remove tile from both restrooms, Install primer 1.5  
 gallons per 175 sq ft., Install epoxy flake floor system w/Polyaspartic  
 topcoat. Remove 960 sq ft of tile, Remove molding from block wall  
 through out.

Apply 7 kits (10.5 gallons) V.B.P. 4100 Primer  
 Apply 4 kits (4 gallons) V.B.P. 4195 Epoxy Color To Be Selected  
 Apply 60 LBS. of V.B.P. ¼' vinyl flake Color To Be Selected  
 Add 36 Units #41 Accelerator  
 Apply 8 gallons 5108 Polyaspartic Topcoat

|                           |    |          |
|---------------------------|----|----------|
| Total                     | \$ | 8,000.00 |
| 50% Deposit               | \$ | 4,000.00 |
| Balance Due On Completion | \$ | 4,000.00 |

\*\*\*\*Remove all tile



**WB EPOXY FLOORS INC.**  
**1121 MILITARY CUTOFF ROAD**  
**Suite C #261**  
**WILMINTON, NC 28405**  
**910-512-0005**

**Lower Cape Fear Water                      Job Proposal                      August 21, 2024**  
**& Sewer Authority**  
**C/O Tim Holloman**  
**246 Private Rd**  
**Riegelwood, NC 28456**

**Prepare surface, Tape, clean, patch any cracks, profile**  
**Existing vinyl floor, remove tile from both restrooms, & grind, Install**  
**primer 1.5 gallons per 175 sq ft., Install epoxy flake floor system**  
**w/Polyaspartic topcoat. Remove 93 sq ft of tile, Remove molding from**  
**block wall through out.**  
**960 sq ft**

**Apply 7 kits (10.5 gallons) V.B.P. 4100 Primer**  
**Apply 4 kits (4 gallons) V.B.P. 4195 Epoxy Color To Be Selected**  
**Apply 60 LBS. of V.B.P. ¼' vinyl flake Color To Be Selected**  
**Add 36 Units #41 Accelerator**  
**Apply 8 gallons 5108 Polyaspartic Topcoat**

|                                  |           |                 |
|----------------------------------|-----------|-----------------|
| <b>Total</b>                     | <b>\$</b> | <b>6,500.00</b> |
| <b>50% Deposit</b>               | <b>\$</b> | <b>3,250.00</b> |
| <b>Balance Due On Completion</b> | <b>\$</b> | <b>3,250.00</b> |



## PROPOSAL

**NAME: Gregory**

WE HEREBY PROPOSE TO FURNISH THE MATERIALS AND PERFORM THE LABOR NECESSARY FOR THE COMPLETION OF THE FOLLOWING:

**Process:**

1. Wrap walls with static wrap to prevent any residual splashing from damaging the walls.
2. Clean concrete using approved Concrete Cleaner.
3. Grind concrete surface using multy-stage process of graduated diamond abrasive pads, typically beginning with 30 working through 50 and ending with 100 grits.
4. Apply metallic epoxy self-leveling, at 1/4" to 1/8" thickness.
5. Clean up the area and dispose of debris in onsite dumpsters.

**Above process to be completed in the following area(s):**

**Epoxy Coating System**

- Concrete Floor – Approx. 1,100 sq. ft.

**TOTAL: \$ 10,000.00**

**Note:**

- **Payment method:** 50% Deposit when work is scheduled, and the balance when the work is substantially complete.



Any concrete patch or imperfection will show up on the concrete floor after the polished concrete process is finished.

**PCS** it's only going to grind the concrete floor to create smooth finish for the polish process. We are not going to ground the concrete floor to exposure stone chips on the surface or to remove any stains that couldn't be remove with the grinding process.

**Warranty:** To assure customer satisfaction, if the customer is not happy with the work performed, **PCS** will provide up to 2 touch-outs in timely fashion over the area indicated, when requested during the warranty period of 30 days after the floor work project is completed. All material is guaranteed to be as specified and the above work to be performed in accordance with this proposal and to be completed within the timeframe specified. After the warranty period contact us for our workmen fee per hour.

**Proposal Excludes:**

Any additional floor preparation not normally covered in flooring quotes. Such as: dismantling or disconnection from a power or water source. To move appliances, repairs or chipped or rusted floor or subfloor.

**Customers:** Must provide water supply and electrical outlet, in addition to have the entire area without appliances of furniture. If we have to move furniture it will be an additional charge of \$\_\_\_\_\_ per day.

**References:** We have excellent references and your satisfaction is our commitment.

Very truly yours,

Hugo A. Vasquez – General Manager-CEO

## DISCLAIMER

POLISHED CONCRETE SOLUTION will assure to protect and to do the procedure as indicated unfortunately sometimes accidents could occur and walls, trims, furniture, carpet and adjacent surfaces could have minor scratches, water and any other damages if this is the case POLISHED CONCRETE SOLUTION will not assume any responsibility over this kind of damages.

NOTE: Squaring stain lines from VCT or any mastic glue won't be removed via grinding. The square stain lines will still show on the concrete surface.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Titles: \_\_\_\_\_

Date: \_\_\_\_\_

**NEW CONCRETE WITHOUT ANY VCT OR MASTIC GLUE ON THE  
TOP OF THE CONCRETE FLOOR SURFACE**

**INITIAL:**



**EXAMPLE OF AN EXISTING CONCRETE WITH A VCT OR MASTIC GLUE ON THE TOP OF THE CONCRETE FLOOR SURFACE**



**INITIAL**

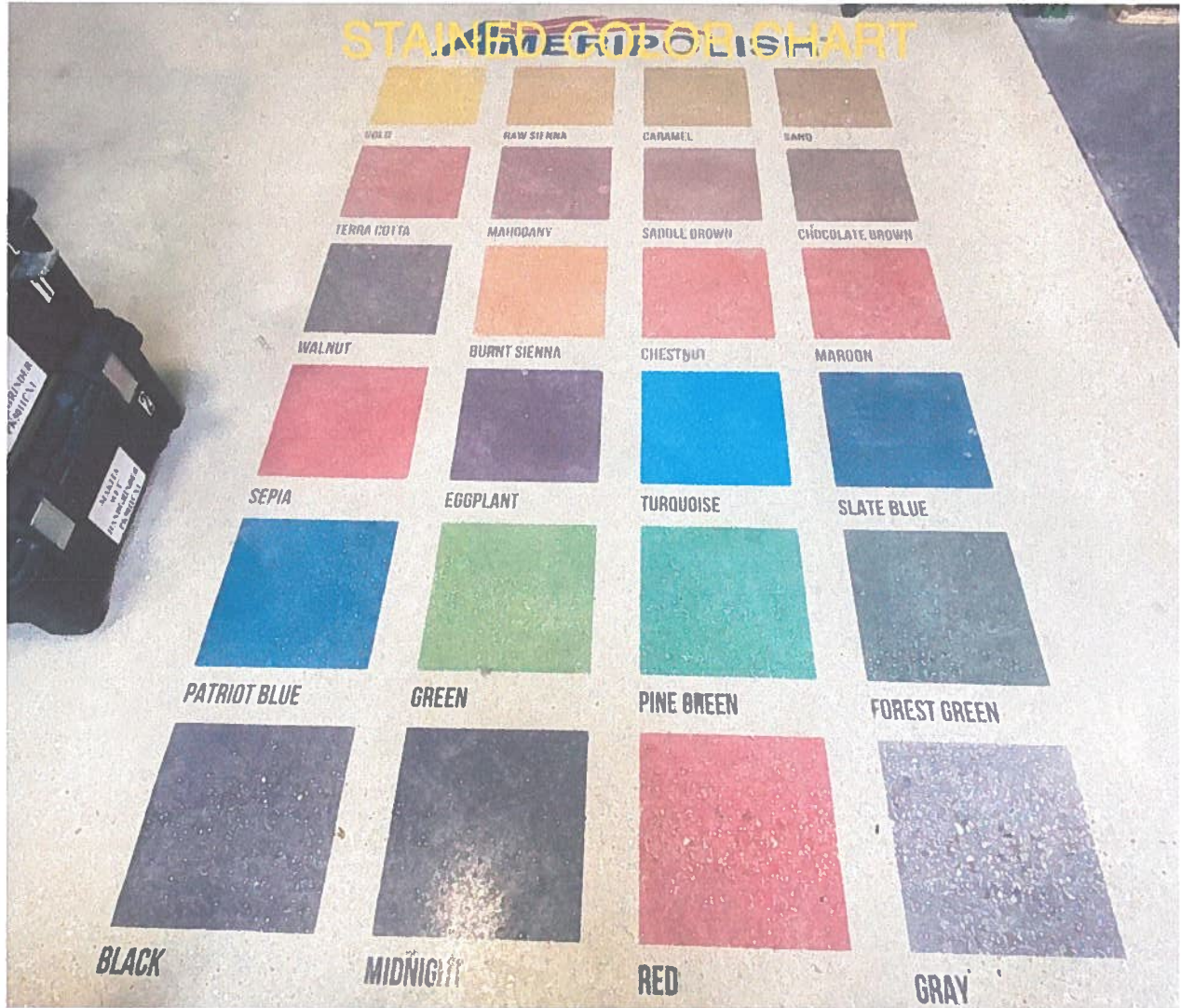


**(C) 855-202-6791**

### STAINED POLISHED CONCRETE

In case client wants a stained polished concrete process. The process will have an extra step on letting the concrete cure and dry for the color stain to be applied. The stained polished concrete process will have an extra cost of \$ 1.50 per sq. ft.

Here is our color chart for our stained polished concrete option





# Estimate

2409-0513-9754

2024-09-05

Anderson Painting  
 P.O. Box 37161  
 Raleigh NC 27627  
 info@andersonpaintingnc.com  
 919-610-1855

Lower Cape Fear Water and Sewer Authority -  
 Greg Iazorchak  
 246 Private Rd  
 Riegel NC 28456  
 director@lcfwasa.gov  
 (862) 591-8622

### Customer Service Guarantee

Our commitment is to provide our customers with the highest level of customer satisfaction possible. We accomplish this by:

- Conducting all business in an honest, friendly, and courteous manner
- Valuing all customer concerns and requests
- Delivering professional grade services, focused on precision, detail, and thoroughness
- Maintaining continuous communication with the customer with regard to job progress
- Completing a final walk through and evaluation with the customer upon completion of the job

| <i>Description</i>   | <i>Quantity</i> | <i>Total</i> |
|--|-----------------|--------------|
| <p><u>Coating</u><br/>                     Prepare concrete substrate by grinding, to remove all dirt and profile surface in preparation for base coat. All grinders are equipped with shrouds and connected to vacuums to reduce dust.<br/>                     Vacuum substrate to remove residual dust.<br/>                     Mend major imperfections in concrete with PennTek HD Mender<br/>                     Grind cured PennTek HD Mender and vacuum residual dust<br/>                     Apply base coat to concrete with PennTek XP 275 polyurea base coat..<br/>                     Broadcast vinyl chips, to rejection, as base coat cures.<br/>                     **CHIP COLOR SELECTED ** TBD Color in Grey<br/>                     Apply PennTek NX 300 Polyaspartic Clear top coat.<br/>                     ** All efforts are made to reduce the amount of dust that is created in this process, however not all dust can be contained. It is owners responsibility to remove or protect any items that may be damaged by dust. Anderson Concrete Coatings is not responsible for cleaning of these items**</p> | 1.00            | \$15,912.50  |

Total \$15,912.50

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Signature \_\_\_\_\_ Date \_\_\_\_\_



Compensation: A deposit of 50% is required along with a signed contract prior to start date. The final 50% is due upon project completion. Anderson Painting has the right to request progress payments when deemed necessary by the project manager or if there are any unforeseen delays. Price is subject to change if additional work is requested/needed.

**There will be a 3% processing fee for all credit card transactions**

Invoicing & Payment: Invoices will be issued to Client via email. Client shall pay final invoice upon completion of work.

**Late fees:**

If your final invoice is not paid within two weeks of the day it was issued, a 5% late fee will be automatically added.

Due to potential variation in labor and material costs this estimate is subject to price revision if not accepted within 3 months of date of delivery.

The scope of work is limited to the items explicitly stated in this contract. Please take the opportunity to review thoroughly and contact us with any questions or clarifications.

Should you decide to withdraw your acceptance of this proposal after we reach an agreement, we reserve the right to retain \$250 of your paid deposit as well as any expenses we incur toward your project.

Tri City Epoxy Coating  
314 Doral Dr  
Hampstead, NC 28443 US  
919-720-5463  
tricityservices92@yahoo.com

**ADDRESS**

Lower Cape Fear Water & Sewer  
Authority  
246 Private Rd  
Rieglewood, NC 28456

Estimate 1169

DATE 07/25/2024

| DATE | ACTIVITY   | QTY   | RATE     | AMOUNT   |
|------|--|-------|----------|----------|
|      | <b>Epoxy</b><br>Remove existing vct and mastic(glue) in preparation for coating  | 1,000 | 3.00     | 3,000.00 |
|      | <b>Epoxy</b><br>Grind , prep, repair all cracks and voids, clean, apply 100% solids epoxy base MVB( moisture vapor barrier) with full coverage of quartz with high wear aliphatic urethane topcoat | 1,000 | 8.00     | 8,000.00 |
|      | <b>Epoxy</b><br>Remove all vinyl base and replace new  | 1     | 1,500.00 | 1,500.00 |

TOTAL \$12,500.00

Accepted By

Accepted Date

# AGENDA ITEM

To: CHAIRMAN KNIGHT AND BOARD MEMBERS

From: TIM H. HOLLOMAN, EXECUTIVE DIRECTOR

Date: September 9, 2024

Re: Executive Director's Report

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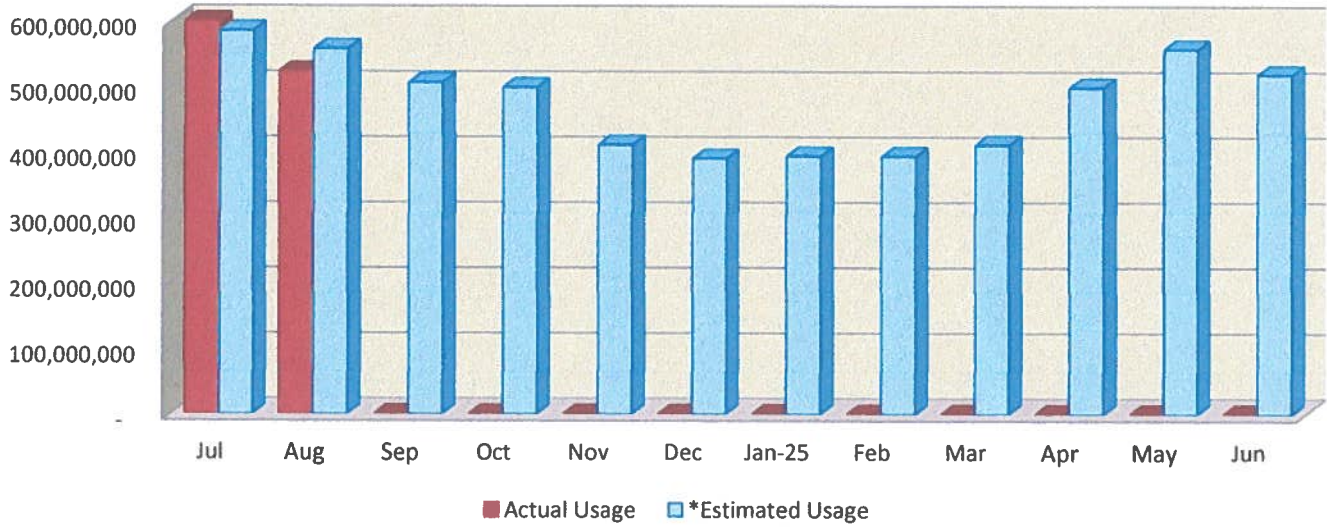
**EDR1** - Comments on Customers' Water Usage and Raw Water Revenue for Fiscal Year to Date Ending August 30, 2024

**EDR2** - Operating Budget Status, Ending July 31, 2024

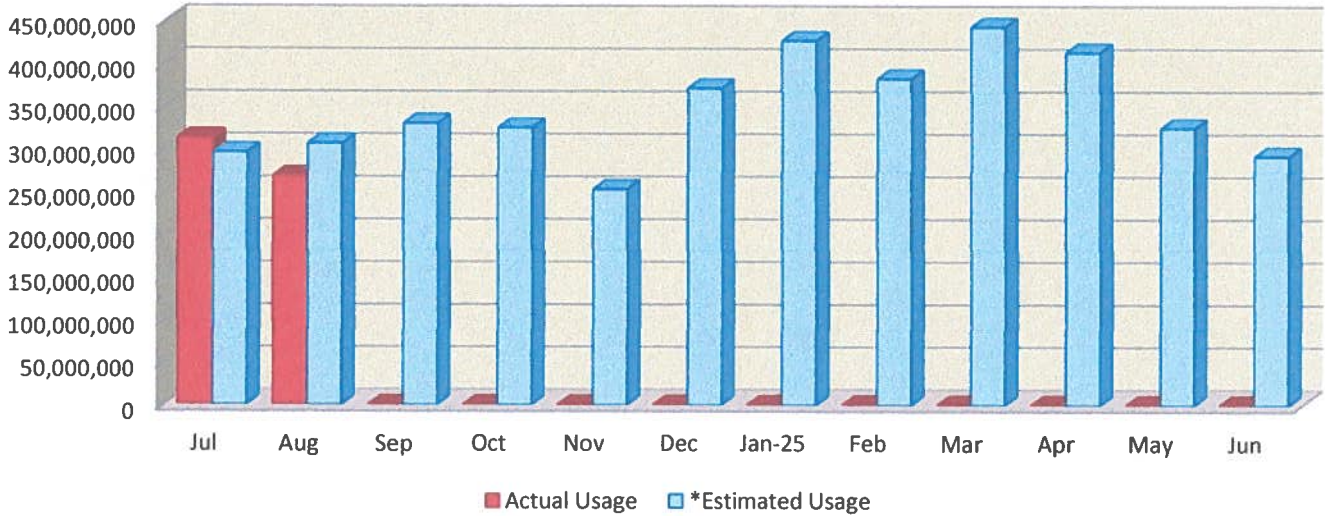
**EDR3** - Summary of Activities.

**Action Requested:** For information purposes.

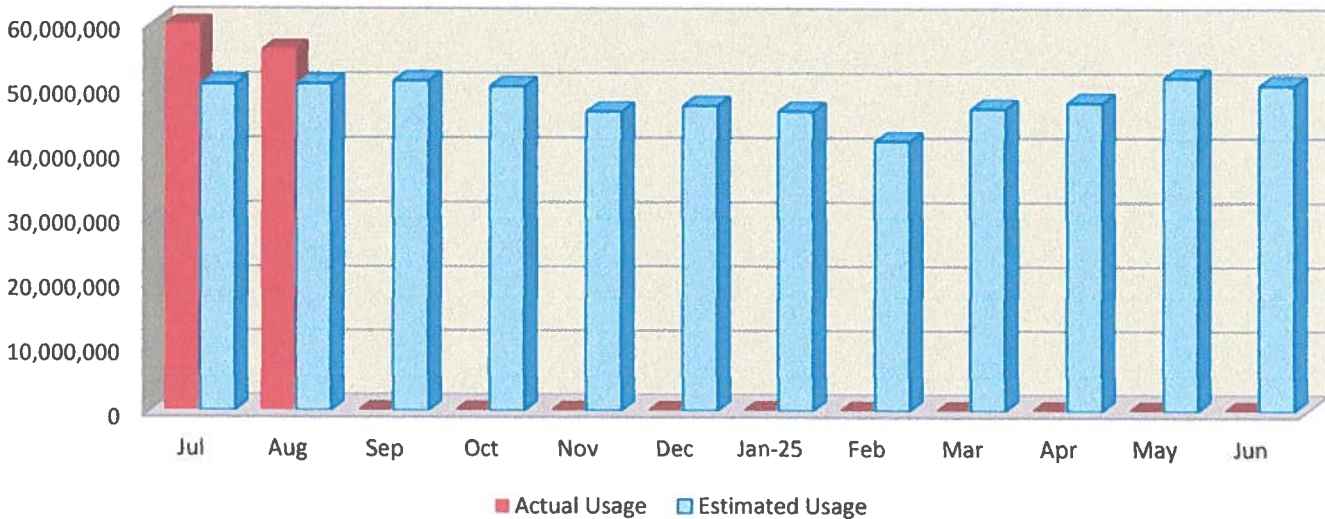
### Brunswick County Water Usage FY 24-25



### CFPUA Water Usage FY 24-25



### Pender County Water Usage FY 24-25



LOWER CAPE FEAR WATER AND SEWER AUTHORITY  
FISCAL YEAR 2024-2025 BUDGET

| ACCOUNT NO | REVENUES  | FY 2024-2025 APPROVED BUDGET | FY 2024-2025 AMENDED BUDGET | July 1 - July 31, 2024 ACTUAL |                   | FY 24-25 TOTAL COMBINED BUDGET | % of Amended Budget As of 7/31/24 |
|------------|---|------------------------------|-----------------------------|-------------------------------|-------------------|--------------------------------|-----------------------------------|
|            |   |                              |                             | KINGS BLUFF                   | BLADEN BLUFFS     |                                |                                   |
|            | <b>OPERATING</b>                                      |                              |                             |                               |                   |                                |                                   |
| 3001-01    | Brunswick County                                      | \$ 2,522,662                 | \$ 2,522,662                | \$ 263,989                    | \$ -              | \$ 263,989                     | 10%                               |
| 3002-01    | Cape Fear Public Utility Authority                    | \$ 1,835,996                 | \$ 1,835,996                | \$ 137,698                    | \$ -              | \$ 137,698                     | 7%                                |
| 3003-03    | Pender County   | \$ 256,344                   | \$ 256,344                  | \$ 26,397                     | \$ -              | \$ 26,397                      | 10%                               |
| 3004-01    | Stepan/Invista  | \$ 176,000                   | \$ 176,000                  | \$ 19,772                     | \$ -              | \$ 19,772                      | 11%                               |
| 3005-01    | Praxair, Inc  | \$ 35,200                    | \$ 35,200                   | \$ 2,402                      | \$ -              | \$ 2,402                       | 7%                                |
| 3006-01    | Bladen Bluffs Reimbursement for Plant Operation Costs | \$ 5,570,183                 | \$ 5,570,183                | \$ -                          | \$ 229,260        | \$ 229,260                     | 4%                                |
| 3006-02    | Bladen Bluffs Administrative Reimbursement            | \$ 119,988                   | \$ 119,988                  | \$ -                          | \$ 13,932         | \$ 13,932                      | 12%                               |
| 3007-01    | Sales Tax Refund                                      | \$ 115,234                   | \$ 115,234                  | \$ -                          | \$ -              | \$ -                           | 0%                                |
|            | <b>Subtotal</b>                                       | <b>\$ 10,631,607</b>         | <b>\$ 10,631,607</b>        | <b>\$ 450,258</b>             | <b>\$ 243,192</b> | <b>\$ 693,450</b>              | <b>7%</b>                         |
|            | <b>Non-Operating</b>                                  |                              |                             |                               |                   |                                |                                   |
| 3105-01    | Interest  | \$ 78,878                    | \$ 154,188                  | \$ 8,905                      | \$ -              | \$ 8,905                       | 6%                                |
| 3120-01    | Other Revenue (Insurance Proceeds/Refunds/FEMA)       | \$ -                         | \$ -                        | \$ -                          | \$ -              | \$ -                           | 0%                                |
| 3125-01    | Federal Tax Subsidy                                   | \$ -                         | \$ -                        | \$ -                          | \$ -              | \$ -                           | 0%                                |
| 3156-00    | Rental House Income                                   | \$ -                         | \$ -                        | \$ -                          | \$ -              | \$ -                           | 0%                                |
| 3170-01    | Transfer In   | \$ -                         | \$ -                        | \$ -                          | \$ -              | \$ -                           | 0%                                |
| 3900-01    | Renewal and Replacement Fund Appropriated             | \$ 104,534                   | \$ 104,534                  | \$ -                          | \$ -              | \$ -                           | 0%                                |
| 3900-02    | SRF/ARPA  | \$ 20,000,000                | \$ 20,000,000               | \$ -                          | \$ -              | \$ -                           | 0%                                |
| 2900-00    | Fund Balance Appropriated                             | \$ -                         | \$ -                        | \$ -                          | \$ -              | \$ -                           | 0%                                |
|            | <b>Subtotal</b>                                       | <b>\$ 20,183,412</b>         | <b>\$ 20,258,722</b>        | <b>\$ 8,905</b>               | <b>\$ -</b>       | <b>\$ 8,905</b>                | <b>0%</b>                         |
|            | <b>TOTAL REVENUES</b>                                 | <b>\$ 30,815,019</b>         | <b>\$ 30,890,329</b>        | <b>\$ 459,163</b>             | <b>\$ 243,192</b> | <b>\$ 702,355</b>              | <b>2%</b>                         |

LOWER CAPE FEAR WATER AND SEWER AUTHORITY  
FISCAL YEAR 2024-2025 BUDGET

| ACCOUNT NO.       | EXPENDITURES                               | FY 2024-2025 APPROVED BUDGET | FY 2024-2025 AMENDED BUDGET | July 1 - July 31, 2024 ACTUAL |                  | FY 24-25 TOTAL COMBINED BUDGET | % of Amended Budget As of 7/31/24 |
|-------------------|--|------------------------------|-----------------------------|-------------------------------|------------------|--------------------------------|-----------------------------------|
|                   |  |                              |                             | KINGS BLUFF                   | BLADEN BLUFFS    |                                |                                   |
|                   | Administration                             |                              |                             |                               |                  |                                |                                   |
| 4001-01           | Salaries                                   | \$ 222,026                   | \$ 222,026                  | \$ 15,387                     | \$ 5,551         | \$ 20,938                      | 9%                                |
| 4010-01           | Per Diem and Mileage Board Members         | \$ 64,476                    | \$ 64,476                   | \$ 2,917                      | \$ 1,612         | \$ 4,529                       | 7%                                |
| 4012-01           | Vehicle Allowance                          | \$ 5,200                     | \$ 5,200                    | \$ 270                        | \$ 130           | \$ 400                         | 8%                                |
| 4019-01 & 4024-01 | FICA Taxes                                 | \$ 22,534                    | \$ 22,534                   | \$ 1,396                      | \$ 563           | \$ 1,959                       | 9%                                |
| 4029-01           | Retirement                                 | \$ 30,196                    | \$ 30,196                   | \$ 1,790                      | \$ 755           | \$ 2,545                       | 8%                                |
| 4035-01           | 401K Plan                                  | \$ 12,422                    | \$ 12,422                   | \$ 725                        | \$ 311           | \$ 1,035                       | 8%                                |
| 4036-01           | Miscellaneous Payroll Processing Expenses  | \$ 2,900                     | \$ 2,900                    | \$ 247                        | \$ -             | \$ 247                         | 9%                                |
| 4038-01           | Group Insurance                            | \$ 42,586                    | \$ 42,586                   | \$ 2,300                      | \$ 1,065         | \$ 3,365                       | 8%                                |
| 4039-01           | Property and Liability Insurance           | \$ 156,000                   | \$ 156,000                  | \$ 27,815                     | \$ 3,900         | \$ 31,715                      | 20%                               |
| 4046-00           | Professional Services General              | \$ 15,000                    | \$ 15,000                   | \$ -                          | \$ -             | \$ -                           | 0%                                |
| 4046-01           | Attorney                                   | \$ 50,000                    | \$ 50,000                   | \$ 4,979                      | \$ -             | \$ 4,979                       | 10%                               |
| 4047-01           | Auditor                                    | \$ 8,000                     | \$ 8,000                    | \$ 1,450                      | \$ 2,800         | \$ 4,250                       | 53%                               |
| 4048-01           | Engineer                                   | \$ 175,000                   | \$ 175,000                  | \$ 1,500                      | \$ -             | \$ 1,500                       | 1%                                |
| 4049-01           | Information Technology                     | \$ 25,000                    | \$ 25,000                   | \$ 664                        | \$ -             | \$ 664                         | 3%                                |
| 4050-01           | Financial Advisor                          | \$ 10,000                    | \$ 10,000                   | \$ -                          | \$ -             | \$ -                           | 0%                                |
| 4055-01           | Office Maintenance/Repair/Common Charge    | \$ 40,000                    | \$ 40,000                   | \$ 1,458                      | \$ -             | \$ 1,458                       | 4%                                |
| 4058-01           | Office Utilities                           | \$ 3,500                     | \$ 3,500                    | \$ 273                        | \$ -             | \$ 273                         | 8%                                |
| 4059-01           | Office Expenses (telephone, Printing, Adv) | \$ 15,000                    | \$ 15,000                   | \$ 430                        | \$ -             | \$ 430                         | 3%                                |
| 4062-01           | Office Equipment                           | \$ 35,000                    | \$ 35,000                   | \$ 2,009                      | \$ -             | \$ 2,009                       | 6%                                |
| 4064-01           | Printing and Advertising                   | \$ 8,000                     | \$ 8,000                    | \$ 1,900                      | \$ -             | \$ 1,900                       | 24%                               |
| 4065-01           | Telephone and Internet                     | \$ 3,500                     | \$ 3,500                    | \$ 770                        | \$ -             | \$ 770                         | 22%                               |
| 4070-01           | Travel and Training                        | \$ 29,000                    | \$ 29,000                   | \$ 937                        | \$ -             | \$ 937                         | 3%                                |
| 4070-20           | Phone Allowance                            | \$ 520                       | \$ 520                      | \$ 27                         | \$ 13            | \$ 40                          | 8%                                |
| 4075-01           | Vehicle Expense                            | \$ -                         | \$ -                        | \$ -                          | \$ -             | \$ -                           | 0%                                |
| 4080-01           | Miscellaneous Expense                      | \$ 20,000                    | \$ 20,000                   | \$ 5,716                      | \$ -             | \$ 5,716                       | 29%                               |
|                   | <b>Subtotal</b>                            | <b>\$ 995,860</b>            | <b>\$ 995,860</b>           | <b>\$ 74,959</b>              | <b>\$ 16,699</b> | <b>\$ 91,658</b>               | <b>9%</b>                         |

LOWER CAPE FEAR WATER AND SEWER AUTHORITY  
FISCAL YEAR 2024-2025 BUDGET

| ACCOUNT NO. | EXPENDITURES   | FY 2024-2025 APPROVED BUDGET | FY 2024-2025 AMENDED BUDGET | July 1 - July 31, 2024 ACTUAL |               | FY 24-25 TOTAL COMBINED BUDGET | % of Amended Budget As of 7/31/24 |
|-------------|--|------------------------------|-----------------------------|-------------------------------|---------------|--------------------------------|-----------------------------------|
|             |  |                              |                             | KINGS BLUFF                   | BLADEN BLUFFS |                                |                                   |
|             | <b>Operating</b>                                     |                              |                             |                               |               |                                |                                   |
| 4501-01     | Sales Tax Expense                                    | \$ 105,000                   | \$ 105,000                  | \$ -                          | \$ 4,967      | \$ 4,967                       | 5%                                |
| 4510-01     | Bladen Bluffs O & M                                  | \$ 3,821,385                 | \$ 3,821,385                | \$ -                          | \$ 243,252    | \$ 243,252                     | 6%                                |
| 4515-01     | Bladen Bluffs Hurricane Florence                     | \$ -                         | \$ -                        | \$ -                          | \$ -          | \$ -                           | 0%                                |
| 4520-01     | Utilities/Energy Kings Bluff                         | \$ 775,363                   | \$ 775,363                  | \$ 79,317                     | \$ -          | \$ 79,317                      | 10%                               |
| 4530-01     | Contract O & M Kings Bluff                           | \$ 736,811                   | \$ 736,811                  | \$ 83,203                     | \$ -          | \$ 83,203                      | 11%                               |
| 4537-01     | O&M Kings Booster Pump Bluff Pump Station            | \$ -                         | \$ -                        | \$ -                          | \$ -          | \$ -                           | 0%                                |
| 4541-01     | Combined Enterprise Funded Series 2010 Principal     | \$ -                         | \$ -                        | \$ -                          | \$ -          | \$ -                           | 0%                                |
| 4542-01     | Combined Enterprise Funded Series 2010 Interest      | \$ -                         | \$ -                        | \$ -                          | \$ -          | \$ -                           | 0%                                |
| 4543-01     | Combined Enterprise System Ref Series 2012 Principal | \$ -                         | \$ -                        | \$ -                          | \$ -          | \$ -                           | 0%                                |
| 4544-01     | Combined Enterprise System Ref Series 2012 Interest  | \$ -                         | \$ -                        | \$ -                          | \$ -          | \$ -                           | 0%                                |
| 4545-01     | Bladen Bluffs Debt Service Principal                 | \$ 1,035,000                 | \$ 1,035,000                | \$ -                          | \$ -          | \$ -                           | 0%                                |
| 4546-01     | Bladen Bluffs Debt Service Interest                  | \$ 500,000                   | \$ 500,000                  | \$ -                          | \$ 43,737     | \$ 43,737                      | 9%                                |
|             | Operating Capital Expense                            | \$ 2,685,000                 | \$ 2,760,310                | \$ -                          | \$ -          | \$ -                           | 0%                                |
| 4998-05     | Transfer to R&R - Kings Bluff R&R Expense            | \$ 160,600                   | \$ 160,600                  | \$ -                          | \$ -          | \$ -                           | 0%                                |
|             | Transfer to R&R - Industrial                         | \$ -                         | \$ -                        | \$ -                          | \$ -          | \$ -                           | 0%                                |
| 4998-06     | Transfer to Enterprise Fund                          | \$ -                         | \$ -                        | \$ -                          | \$ -          | \$ -                           | 0%                                |
| 2041-01     | 421 Relocation New Hanover County Loan Principal     | \$ -                         | \$ -                        | \$ -                          | \$ -          | \$ -                           | 0%                                |
| 5180-00     | SRF77 mile parallel line expenditures                | \$ 20,000,000                | \$ 20,000,000               | \$ -                          | \$ 54,687     | \$ 54,687                      | 0%                                |
|             | <b>Subtotal</b>                                      | \$ 29,819,159                | \$ 29,894,469               | \$ 162,520                    | \$ 346,643    | \$ 509,163                     | 2%                                |
|             | <b>TOTAL EXPENDITURES</b>                            | \$ 30,815,019                | \$ 30,890,329               | \$ 237,479                    | \$ 363,342    | \$ 600,821                     | 2%                                |

Executive Director Highlighted Activities:

- Regular Monthly meeting with the Design Build Team and Owner's Advisor for the parallel line project.
- Participated in weekly update meetings on the 10-mile parallel line.
- Attended the NC Rural Water Leadership Conference.
- Met with Stephan again to review new rate and financials.
- Danielle worked with AT&T on Fiber quotes and question for future service at Kings Bluff
- Spoke to Wilmington Rotary about LCFWASA
- Attended Pender County Utility Monthly meeting
- Attended Pender County Commissioners' Regular Meeting
- Director lunch meetings continue.
- Director Tour of Kings Bluff.
- Discontinued the new Financial Management System, which failed to produce deliverables as promised.
- Danielle attended the NC Association of Municipal Clerks conference.
- Worked with KB staff to finalize floor estimates.
- Worked with Computer Warriors to upgrade LCFWASA computers at the Plant.