

**Onslow Water & Sewer Authority**  
**Board of Directors' Regular Meeting Jacksonville City Hall**  
**Thursday, March 20, 2025**  
**APPROVED MINUTES**

**CALL TO ORDER:** Having a quorum, Chairman Royce Bennett called the meeting to order at 6:02pm. Board members present included Chairman Royce Bennett, Vice Chairman Paul Conner, Secretary/Treasurer Richard Grant, and Directors Jerry Bittner, Greg Hines, Tony Padgett, and Robert Warden. Absent was Director Joe Brown. [Tony Padgett was sworn in on March 11, 2025]

**PLEDGE OF ALLEGIANCE:** Chairman Royce Bennett led the Board and audience in the Pledge of Allegiance.

**INVOCATION:** Pastor Brian Young Senior Pastor of Love, Grace & Mercy Church provided the invocation.

**CHAIRMAN'S REMARKS** –Chairman Royce Bennett provided general guidance to the audience regarding the meeting.

**1. APPROVAL OF AGENDA** – Director Greg Hines made a motion to approve the agenda as presented. Vice Chairman Paul Conner made a second. All were in favor. The agenda was approved as presented.

**2. APPROVAL OF CONSENT AGENDA**

**[A COPY OF THE 2024-2025 ONWASA 56.9HP EXCAVATOR BID TAB MAY BE FOUND AT EXHIBIT A, AND ARE FULLY INCORPORATED HEREIN BY REFERENCE]**

A motion was made by Vice Chairman Paul Conner to approve the consent agenda as presented. A second was made by Director Tony Padgett. The motion passed unanimously. Therefore, the December 19, 2024 Special Meeting Minutes and the January 16, 2025 Regular Meeting Minutes were adopted, the January & February 2025 Finance Reports and December 2024 & January 2025 Operations Reports were accepted as presented, the purchase of one Takeuchi TB290-CR Excavator from United Rental (North America) was approved and the CEO was authorized to execute purchase contracts plus any other documents as may be required in connection with these contracts.

**3. BUSINESS**

**A. SOUTHEAST SERVICE AREA WASTEWATER CAPACITY IMPROVEMENT CONTRACTS  
[THE CONTRACT 1A FORCE MAINS RECOMMENDATION OF AWARD & BID TAB AND  
CONTRACT 1B PUMP STATIONS RECOMMENDATION OF AWARD & BID MAY BE  
FOUND AT EXHIBIT B, AND ARE FULLY INCORPORATED HEREIN BY REFERENCE]**

Chairman Royce Bennett called on Chief of Engineering, Mr. Jeffrey T. Lohr, to present the item. Mr. Lohr began by explaining the item consists of two single prime contracts 1A for the pipe work and 1B for the pump stations. He said this project will construct a new pump station at the existing Holly Ridge Wastewater Treatment Plant site and will construct 8,700 linear feet of new 12 inch diameter force main from the new Holly Ridge pump station to the new Summerhouse pump station. He added that a new Summerhouse pump station would be constructed at the existing Summerhouse WWTF and from there approximately 2,500 linear feet of new 18 inch force main from the new Summerhouse pump station to a temporary location on Holly Ridge Road. He explained that contract two would take it from there to the North Topsail Wastewater Treatment Plant.

Mr. Lohr explained these contracts were originally bid as one combined contract and only received one bid on the deadline November 26<sup>th</sup> which did not meet the three bid requirement and it was rebid and one bid was received on the deadline, December 5<sup>th</sup> in the amount of \$22,940,105.00. The bid was rejected because the amount was considerably over what the estimate was. He explained the project was then rebid as two separate contracts with Contract 1A for the Force Main and 1B for the Pump Stations. The apparent low bidder for Contract 1A for this project was C.M. Mitchell Construction Company in the amount of \$4,802,403.40. Mr. Lohr said Contract 1B was subsequently bid as a separate contract a second time due to not receiving the required number of bids and the apparent low bidder for Contract 1B for this project was TA Loving Company in the amount of \$12,468,100.00. Mr. Lohr explained that the difference in these two bids and the original bid for 22 plus million was \$5,669,000 and some change so we have saved a considerable amount of dollars by splitting the contracts and taking a different strategy. He shared that the submittals have been reviewed by the Design Engineer, Wooten, and determined responsive and responsible.

Secretary/Treasurer Richard Grant said congratulations on the 30% savings over the first bid that came in adding that is a pretty big number. He asked if Mr. Lohr had any idea what the cost of the eventual tie in to the North Topsail Wastewater Plant would be. Mr. Lohr said that is just getting in the final engineering design phase now and advised he would email the latest estimates.

Director Greg Hines made a motion to award Contract 1A Force Mains to the lowest, responsive bidder, C.M. Mitchell Construction Co. in the amount of \$4,802,403.40 and authorize the CEO to execute purchase contracts plus any other documents as may be required in connection with the action. A second was made by Secretary/Treasurer Richard Grant. All were in favor, the motion passed unanimously.

Director Greg Hines made a motion to award Contract 1B Pump Stations to the lowest, responsive bidder, T.A. Loving Company, in the amount of \$12,468,100.00 and authorize the CEO to execute purchase contracts plus any other documents as may be required in connection with the action. A second was made by Secretary/Treasurer Richard Grant. All were in favor, the motion passed unanimously.

**B. Dixon Water Treatment Plant Expansion Project Ordinance  
[ THE DIXON WATER TREATMENT PLANT EXPANSION PROJECT ORDINANCE (CIP 038)  
& CORRESPONDING BUDGET AMENDMENT MAY BE FOUND AT EXHIBIT C, AND ARE  
FULLY INCORPORATED HEREIN BY REFERENCE]**

Chairman Royce Bennett called on Mr. Eric Adams, CFO, to present the item. Mr. Adams reminded the Board there has been work ongoing to explore the Dixon Water Treatment Plant expansion from a 4 MGD to 6 MGD. He said currently the work has been done through ARPA funding received from the State but unfortunately those funds were limited and are running low so the request is adopt the CIP 038 Project Ordinance and the associated budget amendment. Mr. Adams added this is part of the CIP and included in the feasibility and rate studies to continue this work and move into more of the substantial design and eventual construction of the expansion project.

Secretary/Treasurer Richard Grant inquired about the cost. Mr. Adams said in the CIP currently is around 30 million and hopefully during this next design process we will have a much more solid number

Director Bob Warden asked if this is to help with the water shortages, we sometimes have in the summertime down in North Topsail. Mr. Howard replied that part of it is to boost the plant for that issue.

Secretary/Treasurer Richard Grant said for clarification this does not mean we are ruling out the tank on North Topsail. Mr. Howard replied no that is a whole other project.

Director Jerry Bittner made a motion to adopt the Dixon Water Treatment Plant Expansion Project Ordinance CIP 038 and Budget Amendment. Vice Chairman Paul Conner made a second. All were in favor, the motion passed unanimously.

**C. North Topsail Wastewater Treatment Plant Expansion Project Ordinance  
[A COPY OF THE NORTH TOPSAIL WASTEWATER TREATMENT PLANT EXPANSION  
PROJECT ORDINANCE CIP 028 MAY BE FOUND AT EXHIBIT D, AND ARE FULLY  
INCORPORATED HEREIN BY REFERENCE]**

Chairman Royce Bennett called on Mr. Eric Adams to present the item. Mr. Adams explained this Project Ordinance establishes the budget for the expansion of the North Topsail Wastewater Treatment Plant to get it from the 1.5 MGD to 3.0 MGD. He shared that the Design Build approach would be utilized for this project as well as the engagement of an Owner Advisor throughout that process. He said this was part of the Southeast Capacity Improvement CIP and was built into it and the Project Ordinance is what we are estimating the project cost to be at this time.

Secretary/Treasurer Richard Grant said this doubles the capacity and it is obviously not all for North Topsail. Mr. Adams replied that will tie both of the collection systems together so it truly is an improvement for the Southeast Region. Director Grant added when you drive up 210 right now if they can build it they are.

Director Robert Warden said the estimate is on the high side, I hope. Adding 1.5 million for 52 million dollars is not that great. Mr. Adams said this is our best estimate at this point. Mr. Howard said the engineers have a dollar amount per gallon that they estimate and this is a MBR plant so it is a little bit difficult to compare with some other projects saying it is unique.

Vice Chairman Richard Grant made a motion to adopt the North Topsail WWTP Capacity Improvements Project Ordinance CIP 028 and Budget Amendment. A second was made by Director Tony Padgett. All were in favor, the motion passed unanimously.

**D. Mount Pleasant Pump Station Relocation Project Ordinance CIP 036)  
[A COPY OF THE CIP 036 PROJECT ORDINANCE AND BUDGET AMENDMENT MAY BE  
FOUND AT EXHIBIT E, AND ARE FULLY INCORPORATED HEREIN BY REFERENCE]**

Chairman Bennett called on Mr. Eric Adams to present the item. Mr. Adams said as many may recall in 2022 we applied for a Building Resilient Infrastructure and Communities Grant more commonly known as a BRIC Grant and at that time the Board approved a 30% match for the grant requirement. He shared that recently we received the award and approval for the grant to proceed for phase one which is the design engineering surveying work to be done at the Mount Pleasant Pump Station. Phase 2 which is pending approval of phase one completion and acceptance would be for an additional 1.75 million for the construction. Mr. Adams explained this is a pump station in the Swansboro Wastewater Collection system and is currently on Mount Pleasant

Road near a creek and is at risk of some bank erosion, so we want to get that pump station to a safer location.

Chairman Royce Bennett asked if we have the land for it. Mr. Adams replied not presently but that is part of phase one. Mr. Howard added we are in contact with the neighbor to hopefully get an easement unless we have to acquire the property. Mr. Howard said this would move it up the street a little and on the same side of the road.

Secretary/Treasurer Richard Grant asked if during the budget he will be providing a forecast on how much money has got to go into wastewater side and the water side just to serve so you will give us an idea of the funds we have to have and the funds we do have. Mr. Adams answered that is part of our CIP and we can present but have not in the past a water system cost versus a wastewater system cost. Director Grant replied I am talking about educating the public on how much has got to go in adding we have talked about Settlers Beach and leaks and thinks like that and to maintain the system for the customers we have it's a lot of money that is going to have to go into the system.

A motion was made by Director Bob Warden to adopt the Amended Project Ordinance for CIP 036 and Budget Amendment. A second was made by Director Tony Padgett. All were in favor, the motion passed unanimously.

**E. Resolution Authorizing the CEO to Declare Official Intent to Reimburse Expenditures [A COPY OF THE RESOLUTION MAY BE FOUND AT EXHIBIT F, AND ARE FULLY INCORPORATED HEREIN BY REFERENCE]**

Chairman Royce Bennett called on CEO, Franky J. Howard, to present the item. Mr. Howard said at recommendation of our Bond Counsel as we are preparing for the next round of bond sales. He explained a lot of these projects are going to come together at the same time so we will need to declare reimbursable expenses.

Secretary/Treasurer Richard Grant asked so this is pre-bond sale expenses. Mr. Howard replied yes.

Director Robert Warden said basically what we are saying is that we are going to expend some money prior to actually having a bond sale and we want to make everyone aware we are going to be reimbursed out of the bond sale for that money we put up front. Secretary/Treasurer Richard Grant added it is fronting the expenses is what you are saying. Mr. Howard replied yes.

A motion was made by Director Gregory Hines to adopt the Resolution Authorizing the Chief Executive Officer of The Authority to Declare Official Intent to Reimburse Expenditures Under United States Department of Treasury Regulations on Behalf of Said Authority. A second was made by Vice Chairman Paul Conner. All were in favor, the motion passed unanimously.

**F. Amended Advanced Metering Infrastructure Project Ordinance and Contract Change Order [A COPY OF THE AMENDED ADVANCED METERING INFRASTRUCTURE PROJECT ORDINANCE AND BUDGET AMENDMENT MAY BE FOUND AT EXHIBIT G, AND ARE FULLY INCORPORATED HEREIN BY REFERENCE]**

Chairman Royce Bennett called on CEO, Franky J. Howard, to present the item. Mr. Howard said we have been working with our vendor doing the pilot project for the AMI system on the Island and we have discovered we need some additional meters. He

shared that this change order is for an additional 171 meters and would be for a cost of \$54,012.16. Mr. Howard said the ten test meters have been installed and we are getting close to being able to satisfy the requirements for the file information sharing between the two vendors and our billing software so once we get those parts ironed out we will start to install the pilot meters and there will be close to 1200 meters that we will be testing for the AMI system. He added that included in the budget request for this year [FY26] to expand that effort further up the island once we see how well this does.

Chairman Royce Bennett said this is really a good project adding he can't imagine how much money it is going to save us eventually even though we are going to have to put out a lot to get it going. He went on to say we have about 59,000 meters out there. Mr. Howard said it will be a big effort to do it county wide but hopefully we can work it in either phasing it in or take large chunks in. He said by the time we do the Island we will have 3,000 meters. He went on to say it will probably be a 20 million dollar project once we go full force with it. Mr. Howard explained that as he has shared in his updates, we have discovered that particularly on the Island some of our meters are inaccurate because of the sand that gets in the lines and the old style meters we are using have moving parts in them so they wear out over time but these new meters have no moving parts they are ultrasonic. Secretary/Treasurer Richard Grant asked Mr. Howard to share the information on when the flow was reversed from Surf City you found out what they are billing versus what we are billing was what a 40% difference. Mr. Howard said it got up to 60% at one point in time so we were seeing a pretty substantial loss out there on the Old Settlers System. Mr. Howard went on to say we have completed some pretty elaborate leak detection out there with our vendor and we are eager to see what next month's report adding we think we have cut it well in half. Director Warden asked if the meters believed to be faulty are over reading or under reading. Mr. Howard replied under reading.

A motion was by Vice Chairman Paul Conner to adopt the Amended Advanced Metering Infrastructure Project Ordinance and associated budget amendment. A second was made by Director Tony Padgett. All were in favor, the motion passed unanimously.

A motion was made by Director Robert Warden to approve Change Order #001 in the amount of \$54,012.16 and authorize the CEO to execute this change order and any additional documents as required in connection with this action. A second was made by Vice Chairman Paul Conner. All were in favor, the motion passed unanimously.

**G. Summerhouse WWTP Interim Improvements Update  
[A COPY OF THE POWERPOINT PRESENTATION SLIDES MAY BE FOUND AT EXHIBIT H,  
AND ARE FULLY INCORPORATED HEREIN BY REFERENCE]**

Mr. Mark Young provided the Board and audience a presentation regarding the Summerhouse WWTP Interim Improvements and general information about the ONWASA Wastewater System.

**No action was requested.**

#### **4. PUBLIC COMMENT**

Taren Carranza, a resident of Sneads Ferry and mother of four, expressed concerns about the safety of the water supplied to the Dixon Water Treatment Plant area. She mentioned her

surprise upon learning that water is sometimes purchased from the nearby air station, given its known contamination history and ongoing cleanup efforts. Carranza shared that this discovery led her to research other water sources, including wells in the area such as wells 10 and 11, and raised questions about prior land use and whether any environmental studies or remedial investigations had been conducted.

She voiced frustration at not being able to find publicly available documentation, such as land studies or remedial investigation reports, that would help address her concerns about potential groundwater contamination. Ms. Carranza also inquired about the new pipelines discussed earlier in the meeting and their origins. She noted that when she previously asked for the locations of test wells, the information was not provided, and she was told that explosive agents are not part of routine voluntary water testing—unlike testing at the air station.

Ms. Carranza emphasized the need for greater transparency, particularly regarding whether water is being tested for potential contaminants like explosive agents, even if not required by the Clean Water Act. She concluded by calling for more clarity and proactive communication to reassure the community about water safety near sites like the Camp Davis landfill.

Mr. Franky Howard, CEO addressed concerns regarding the safety and monitoring of water sourced from the New River Air Station and Camp Davis. He explained that the utility has an intergovernmental agreement with the base involving mutual water purchases during peak demand adding ONWASA purchases water from New River Air Station not Camp Lejeune. Both systems are regulated by the State and draw from similar sources, specifically the Castle Hayne aquifer. Mr. Howard acknowledged concerns stemming from the Camp Lejeune contamination incident but emphasized that the affected aquifer there was shallower and no longer used. He stated that while he wasn't certain whether testing includes explosive agents, they do test for all state-required contaminants. He also mentioned that due to potential PFAS concerns identified in base test wells, the utility monitors the area more frequently and would cease using any well if contaminants appear to be migrating. He added a third-party consultant supports this monitoring effort. Chairman Bennett suggested Mr. Howard and Ms. Carranza speak after the meeting to answer the rest of her concerns.

Ms. Riley Lewis, who serves as a waterkeeper and advocate for clean and accessible waterways, addressed the Board. Although a resident of Morehead City, she works closely with communities throughout the region, including Onslow County, focusing on improving water quality and addressing the increasing impacts of flooding in coastal areas.

Ms. Lewis began by expressing appreciation for the Board's inclusion of public comment in the meeting and commended their discussions about system expansion and planning for growth. She specifically acknowledged Mr. Young for his detailed comments and technical background, particularly regarding the use of algicides in Lake Willow.

Referencing a recent water resources conference she attended at NC State University, Ms. Lewis advocated for the integration of constructed wetlands into ONWASA's infrastructure plans. She described these wetlands as a proven stormwater control measure that effectively removes excess nutrients like nitrogen before water enters lakes and other waterways. According to Lewis, implementing such systems could help maintain healthier water bodies and reduce ongoing maintenance costs, such as those associated with algicide application and duckweed removal.

In addition, Ms. Lewis urged ONWASA to explore water reclamation strategies within new developments and major infrastructure projects. She recommended utilizing gray water or treated wastewater for non-potable purposes like irrigation and industrial use. This approach, she noted, could alleviate pressure on the area's aquifer, which is being depleted at a concerning rate. By planning and incorporating these systems now—while growth and infrastructure expansion are underway—she argued that the region could avoid more costly retrofits and environmental challenges in the future.

Ms. Lewis concluded her remarks by offering to continue the conversation in more detail offline and expressed her enthusiasm for the ongoing efforts to protect and enhance water quality in Onslow County and across the ONWASA service area.

## **5. LEGAL COUNSEL COMMENTS & SPECIAL PRESENTATION**

Mr. Chuck Kitchen, Authority Legal Counsel, announced his retirement. He shared that he has been practicing law for 45 years and felt it was time to conclude his legal career. Mr. Kitchen has served as ONWASA's legal counsel for over 14 years and expressed gratitude for the opportunity to work with the organization. He spoke fondly of his time in Onslow County, noting his appreciation for the area and its people, especially compared to his previous home town. He confirmed that the meeting would be his last with ONWASA, though he offered to assist the Board during the transition if needed.

Chairman Royce Bennett presented Mr. Kitchen with a plaque in recognition of his service from the Board of Directors.

## **6. CHIEF EXECUTIVE OFFICER COMMENTS**

Chairman Royce Bennett called on CEO, Franky Howard for comments. Mr. Howard began by stating that the Northwest Plant that was talked about earlier which had flooded during Hurricane Florence is a water reclamation facility adding it was set up to do what Ms. Lewis was talking about and there were some issues lining up the demand for it and maybe that is something that can be explored in the future. Mr. Howard provided infrastructure project updates. He said the HWY 24 Force Main project is underway with pipe staged and the right of way being cleared. He added that work has begun on the pump station construction as well. Mr. Howard said he is happy to report that the Wallace Creek repairs are underway. He shared that the FY26 Proposed Budget is being finalized with an updated rate model to reflect the latest data adding that the Board will review it in May. Mr. Howard provided a reminder that April is National Safe Digging Month and informed the Board that over 900 customers participated in a recent survey and encouraged ongoing customer feedback to improve services.

## **6 BOARD OF DIRECTOR'S COMMENTS**

Director Bob Warden expressed his appreciation to Mr. Kitchen. He thanked him for the counsel, guidance, wisdom, and legal expertise, particularly in navigating complicated bond issues and acknowledged his assistance in the purchase of Pluris ensuring all contract details were handled appropriately.

Director Jerry Bittner echoed the comments of Director Warden. Director Bittner inquired about the memorandum that was received from the General on the Base regarding the wastewater flow. Mr. Howard replied that we are constantly trying to get some feedback, and we are strategizing on how to get a meeting lined up to figure out how we can work through. He added that staff

participated in a Water Resources Group which is a partnership between the City of Jacksonville, ONWASA, and the Base. Director Bittner noted while he isn't a chemist one of the problems appeared to be nitrogen levels. Mr. Howard replied they are a direct discharge plant so they do have different limitations as some of our plants because they discharge directly into the New River so one of their concerns is that by increasing the capacity to us would put them in a violation of their current limitations. Director Bittner shared his appreciation to Mr. Kitchen for all of his hard work and guidance over the years stating he would be missed and he wished him happy days ahead. Director Bittner said to Mr. Young the presentation was excellent and congratulated him on being the Operator of the Year.

Director Tony Padgett expressed his gratitude for being back on the Board and his commitment to working as a team for the betterment of Onslow County and all municipalities. Director Padgett mentioned that, as one of the founding fathers of ONWASA, he looks forward to catching up and contributing to the board's work. He also thanked Mr. Young for his helpful presentation and expressed eagerness to work with everyone on the board to make improvements for the future.

Director Greg Hines expressed his appreciation for the staff's hard work in solving complex problems. He specifically highlighted the Summerhouse project, noting how it seemed like an expensive challenge but was resolved cost-effectively. He commended the team members involved for their efforts, emphasizing the positive impact the solution will have. Director Hines also acknowledged the viewers watching the meeting, particularly a regular viewer, Ms. Janette, and thanked her for her support. He then welcomed Director Padgett back to the Board.

Secretary/Treasurer Richard Grant expressed appreciation to Mr. Kitchen, noting that it was great working with him. He complimented the team Mr. Howard has working with him and acknowledged the significant amount of money that will need to be spent in the coming years to address infrastructure needs. He concluded by expressing gratitude for the progress being made in ensuring water and sewer services will be properly handled. He stated the presentation was great [Mr. Young's presentation].

Vice Chairman Paul Conner said to Mr. Young the presentation was great. He welcomed Director Padgett to the Board. He expressed his appreciation to Mr. Kitchen and said he will be missed. He thanked those who made public comments.

Chairman Royce Bennett began by thanking everyone for their contributions, especially members of the public who attended and spoke, noting that it's not often they get that engagement. He expressed appreciation for Mr. Kitchen, highlighting his help over the years with major projects, including the Pluris transition and property acquisitions and sales. He mentioned their frequent communication and thanked him for always answering calls.

Chairman Bennett also congratulated Mr. Young for receiving the Operator of the Year award, acknowledging his work for ONWASA and Onslow County. He then brought attention to irrigation meters, noting that with the upcoming watering season, residents who transitioned from Pluris (which used a flat sewer fee) to ONWASA (which charges by the gallon) might see unexpected charges if they don't have an irrigation meter. He encouraged them to contact the office about installing one. Lastly, he reflected on a recent trip where he observed the use of Kubota systems in high-rise buildings for water reclamation. He emphasized the importance of considering reclaimed water systems as Onslow County grows, while noting that economic feasibility will need to be evaluated.

Chairman Bennett adjourned the meeting at 7:18 PM.

MINUTES APPROVED MAY 15, 2025

Onslow Water & Sewer Authority Board of Directors



A handwritten signature in black ink, appearing to read "M. Royce Bennett", is written above a horizontal line.

Michael Royce Bennett, Chairman

ATTEST:

A handwritten signature in blue ink, appearing to read "Heather Norris", is written above a horizontal line.

Heather Norris, Clerk

**2024-2025 ONWASA 56.9HP EXCAVATOR  
 BID TABULATION  
 March 5, 2025 2:00pm**

BIDDER	UNIT PRICE
UNITED RENTALS	\$108,000 <sup>00</sup>
NATIONAL EQUIPMENT DEALERS	\$134,500 <sup>00</sup>
COMPANY WRENCH (JCB 85Z)	\$117,531. <sup>57</sup>
COMPANY WRENCH (KOBELCO)	\$123,049 <sup>00</sup>
DITCH WITCH (2023 YANMAR)	\$115,791 <sup>78</sup>
DITCH WITCH (2024 YANMAR)	\$120,844 <sup>51</sup>

**Present:**

Eric Adams, Chief Financial Officer JEA

*[Handwritten Signature]*  
*[Handwritten Signature]*

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120 N. Boylan Avenue  
Raleigh, NC 27603  
(919) 828-0531

February 13, 2025

Mr. Jeffrey T. Lohr, PE  
Chief of Engineering  
Onslow Water and Sewer Authority  
228 Georgetown Road  
Jacksonville, NC 28540

Re: ONWASA SE Area Wastewater Capacity Improvements – Contract 1A Force Mains  
Award Recommendation, TWC No. 2896-AM

Dear Mr. Lohr:

Enclosed is the Certified Bid Tabulation and Bid Summary for the bids received on Thursday February 6, 2025, for the above referenced project. A total of three (3) bids were received for the advertised project. The Low Bidder is C. M. Mitchell Construction Co. of Sneads Ferry, NC with a bid in the amount of \$4,802,403.40.

The Low Bidder is properly licensed to perform the work based on the information obtained from the N.C. Licensing Board of General Contractors' web site as attached. Note that license renewal will be required during this project. We contacted two (2) of the three (3) references provided in the submitted bid and a fourth reference (ONWASA Ocean Boulevard water main project); none of whom had any reservations about using C. M. Mitchell Construction Co. on future projects. We are therefore satisfied that C. M. Mitchell Construction Co. is a responsible, responsive bidder and capable of successfully executing the contract.

It is our understanding that the project budget is sufficient to cover the construction costs, therefore, we recommend that ONWASA accept the bid and award the Construction Contract of the SE Area Wastewater Capacity Improvements – Contract 1A Force Mains Project to C. M. Mitchell Construction Co. Please note that the contract must be awarded by May 7, 2025, without requesting an extension of the bid holding period from the low bidder.

Enclosed for your approval and signature is the Notice of Award. Upon awarding the contract, please execute this notice and return it to our office. We will then forward it along with the remaining Contract Documents to the Contractor for execution. In the meantime, should you have any questions or concerns regarding the recommendation, or need additional information please let us know.

Respectfully,

**THE WOOTEN COMPANY**

Carl Scharfe, P.E.

Enclosure

BID SUMMARY  
 ONWASA  
 SE SERVICE AREA WASTEWATER CAPACITY IMPROVEMENTS - CONTRACT 1A FORCE MAINS  
 JACKSONVILLE, NORTH CAROLINA

BID DATE/TIME: February 6, 2025 @ 2:00 P.M.

TWC No. 2896-AM

CONTRACTORS	I.C. NO.	CLASS.	BID BOND	Add. 1 - Add. 7	TOTAL BASE BID	REMARKS
T.A. Loving Company P.O. Box 919 Goldsboro, NC 27533	00325	UL - UNCLASSIFIED	Yes	Yes	\$5,790,770	
Sunland Builders, Inc. 4846-A Hwy 24 Newport, NC 28570	24941	UL - BUILDING/ HWY / PU	Yes	Yes	\$7,977,319	
C.M. Mitchell Construction Co. P. O. Box 409 Sneads Ferry, NC 28460	44521	UL - HWY / PU	Yes	Yes	\$4,802,403.40*	Apparent Lowest Bidder

EXHIBIT B

This is to certify that the bids tabulated herein were publicly opened and read aloud at 2:00 p.m. on the 6th day of February 2025, at the Onslow Water and Sewer Authority, 228 Georgetown Road, Jacksonville, North Carolina, and that all said bids were accompanied by either a certified check or bidder's bond except as otherwise noted.

- Total Base Bid adjusted by Engineer for incorrect calculation of extended cost for Bid Item 23 Gravel Driveway Repair. Correct value is \$9,210. Correction increases Total Base Bid by \$150,00.

THE WOOTEN COMPANY



Carl W. Scharfe, P.E.

**SUMMARY BID TAB**  
**Southeast Service Area Wastewater Capacity Improvements, Contract 1A - Force Mains**  
**ONWASA, Jacksonville, North Carolina**

THE WOOTEN COMPANY

1/15/2025

DESCRIPTION	UNITS	TOTAL QUAN.	LOW BIDDER		T. A. Loving Company		Sunland Builders, Inc.		Average of 3 Low Bidders
			UNIT COST	EXTENDED COST	UNIT COST	EXTENDED COST	UNIT COST	EXTENDED COST	
1 Mobilization	LS	1	\$165,000.00	\$165,000.00	\$165,000.00	\$165,000.00	\$293,500.00	\$293,500.00	\$207,853.33
2 8" C900 PVC Force Main	LF	5,777	\$97.50	\$563,257.50	\$100.00	\$577,700.00	\$239.00	\$1,380,703.00	\$145.50
3 8" C900 PVC Force Main with Joint Restraint	LF	615	\$233.20	\$143,418.00	\$125.00	\$76,875.00	\$125.00	\$76,875.00	\$161.07
4 8" RJDIP Force Main	LF	223	\$584.80	\$130,410.40	\$225.00	\$50,175.00	\$250.00	\$55,750.00	\$353.27
5 12" C900 PVC Force Main	LF	6,887	\$135.95	\$936,287.65	\$165.00	\$1,136,355.00	\$287.00	\$1,976,569.00	\$195.98
6 12" C900 PVC Force Main with Joint Restraint	LF	1,004	\$247.35	\$248,339.40	\$200.00	\$200,800.00	\$222.00	\$222,888.00	\$223.12
7 12" RJDIP Force Main	LF	68	\$856.60	\$58,248.80	\$350.00	\$23,800.00	\$500.00	\$34,000.00	\$568.87
8 18" C900 PVC Force Main	LF	1,901	\$246.40	\$468,406.40	\$190.00	\$361,190.00	\$430.00	\$817,430.00	\$288.80
9 18" C900 PVC Force Main with Joint Restraint	LF	209	\$390.75	\$81,666.75	\$375.00	\$78,375.00	\$251.00	\$52,459.00	\$338.92
10 18" RJDIP Force Main	LF	20	\$1,554.00	\$31,080.00	\$750.00	\$15,000.00	\$670.00	\$13,400.00	\$991.33
11 16" Steel Encasement Pipe with 8" Carrier Force Main by Dry Bore and Jack	LF	174	\$910.00	\$158,340.00	\$1,000.00	\$174,000.00	\$1,935.00	\$336,690.00	\$1,281.67
12 24" Steel Encasement Pipe with 12" Carrier Force Main by Dry Bore and Jack	LF	40	\$1,457.50	\$58,300.00	\$2,325.00	\$93,000.00	\$2,736.00	\$109,440.00	\$2,172.83
13 24" Steel Encasement Pipe with 12" Carrier Force Main by Open cut	LF	36	\$781.00	\$28,116.00	\$1,500.00	\$54,000.00	\$1,750.00	\$63,000.00	\$1,343.67
14 32" Steel Encasement Pipe with 18" Carrier Force Main by Dry Bore and Jack	LF	211	\$1,590.00	\$335,490.00	\$2,500.00	\$527,500.00	\$2,540.00	\$535,940.00	\$2,210.00
15 8" Fusible C900 PVC Force Main by Horizontal Directional Drill (Sta 39+54 to 41+80)	LS	1	\$47,250.00	\$47,250.00	\$65,000.00	\$65,000.00	\$155,000.00	\$155,000.00	\$89,083.33
16 12" Fusible C900 PVC Force Main by Horizontal Directional Drill (Sta 12+69 to 23+11)	LS	1	\$324,000.00	\$324,000.00	\$600,000.00	\$600,000.00	\$585,000.00	\$585,000.00	\$503,000.00
17 8" Plug Valve and Box	EA	4	\$8,675.00	\$34,700.00	\$7,000.00	\$28,000.00	\$6,900.00	\$27,600.00	\$7,525.00
18 12" Plug Valve and Box	EA	3	\$13,750.00	\$41,250.00	\$15,000.00	\$45,000.00	\$12,275.00	\$36,825.00	\$13,675.00
19 18" Plug Valve and Box	EA	2	\$18,385.00	\$36,770.00	\$36,000.00	\$72,000.00	\$38,900.00	\$77,800.00	\$31,095.00
20 Sewer Air Release Valve and Manhole	EA	7	\$42,750.00	\$299,250.00	\$22,000.00	\$154,000.00	\$37,850.00	\$264,950.00	\$34,200.00
21 Asphalt Pavement Repair	SY	900	\$60.60	\$54,540.00	\$90.00	\$81,000.00	\$300.00	\$270,000.00	\$150.20
22 Concrete Pavement Patching	SY	10	\$268.75	\$2,687.50	\$200.00	\$2,000.00	\$500.00	\$5,000.00	\$322.92
23 Gravel Driveway Repair	SY	150	\$61.40	\$9,210.00	\$20.00	\$3,000.00	\$150.00	\$22,500.00	\$77.13
24 Undercut and Backfill with #57 Stone	CY	2000	\$130.15	\$260,300.00	\$92.50	\$185,000.00	\$200.00	\$400,000.00	\$140.88
25 Select Backfill Material	CY	800	\$29.00	\$23,200.00	\$37.50	\$30,000.00	\$55.00	\$44,000.00	\$40.50
26 Erosion Control	LS	1	\$262,885.00	\$262,885.00	\$992,000.00	\$992,000.00	\$120,000.00	\$120,000.00	\$458,295.00
<b>TOTAL BASE BID</b>				<b>\$4,802,403.40</b>		<b>\$5,790,770.00</b>		<b>\$7,977,319.00</b>	

EXHIBIT B

**SUMMARY BID TAB**  
**Southwest Service Area Wastewater Capacity Improvements, Contract 1A - Force Mains**  
**ONWASA Jacksonville, North Carolina**

THE WOOTEN COMPANY

1/15/2025

DESCRIPTION	UNITS	TOTAL QUAN.	EXTENDED COST
1 Mobilization	LS	1	\$207,893.33
2 8" C900 PVC Force Main	LF	5,777	\$840,553.50
3 8" C900 PVC Force Main with Joint Restraint	LF	615	\$99,056.00
4 8" RUDIP Force Main	LF	223	\$78,778.47
5 12" C900 PVC Force Main	LF	6,887	\$1,349,737.22
6 12" C900 PVC Force Main with Joint Restraint	LF	1,004	\$224,009.13
7 12" RUDIP Force Main	LF	68	\$38,682.93
8 18" C900 PVC Force Main	LF	1,901	\$549,008.80
9 18" C900 PVC Force Main with Joint Restraint	LF	209	\$70,833.58
10 18" RUDIP Force Main	LF	20	\$19,826.67
11 16" Steel Encasement Pipe with 8" Carrier Force Main by Dry Bore and Jack	LF	174	\$223,010.00
12 24" Steel Encasement Pipe with 12" Carrier Force Main by Dry Bore and Jack	LF	40	\$86,913.33
13 24" Steel Encasement Pipe with 12" Carrier Force Main by Open cut	LF	36	\$48,372.00
14 32" Steel Encasement Pipe with 18" Carrier Force Main by Dry Bore and Jack	LF	211	\$466,310.00
15 8" Fusible C900 PVC Force Main by Horizontal Directional Drill (Sta 39+54 to 41+80)	LS	1	\$89,083.33
16 12" Fusible C900 PVC Force Main by Horizontal Directional Drill (Sta 12+69 to 23+11)	LS	1	\$503,000.00
17 8" Plug Valve and Box	EA	4	\$30,100.00
18 12" Plug Valve and Box	EA	3	\$41,025.00
19 18" Plug Valve and Box	EA	2	\$62,190.00
20 Sewer Air Release Valve and Manhole	EA	7	\$239,400.00
21 Asphalt Pavement Repair	SY	900	\$135,180.00
22 Concrete Pavement Patching	SY	10	\$3,229.17
23 Gravel Driveway Repair	SY	150	\$11,570.00
24 Undercut and Backfill with #57 Stone	CY	2000	\$281,766.67
25 Select Backfill Material	CY	800	\$32,400.00
26 Erosion Control	LS	1	\$458,295.00
<b>TOTAL BASE BID</b>			<b>\$6,190,164.13</b>

EXHIBIT B

March 3, 2025

Mr. Jeffrey T. Lohr, PE  
Chief of Engineering  
Onslow Water and Sewer Authority  
228 Georgetown Road  
Jacksonville, NC 28540

Re: ONWASA SE Area Wastewater Capacity Improvements – Contract 1B Pump Stations  
Award Recommendation, TWC No. 2896-AM

Dear Mr. Lohr:

Enclosed is the Certified Bid Tabulation and Bid Summary for the bids received on Thursday February 27, 2025, for the above referenced project. A total of two (2) bids were received for the advertised project. The Low Bidder is T. A. Loving Company of Goldsboro, NC with a bid in the amount of \$12,468,100.00.

The Low Bidder is properly licensed to perform the work based on the information obtained from the N.C. Licensing Board of General Contractors' web site as attached. Note that license renewal will be required during this project. We had recently contacted references for TA Loving for the ONWASA Hwy 24 Wastewater Pump Station Project, and we do not have any reservations about using T. A. Loving Company on this project. We are therefore satisfied that T. A. Loving Company is a responsible, responsive bidder and capable of successfully executing the contract.

It is our understanding that the project budget is sufficient to cover the construction costs, therefore, we recommend that ONWASA accept the bid and award the Construction Contract of the SE Area Wastewater Capacity Improvements – Contract 1B Pump Stations Project to T. A. Loving Company. Please note that the contract must be awarded by May 28, 2025, without requesting an extension of the bid holding period from the low bidder.

Enclosed for your approval and signature is the Notice of Award. Upon awarding the contract, please execute this notice and return it to our office. We will then forward it along with the remaining Contract Documents to the Contractor for execution. In the meantime, should you have any questions or concerns regarding the recommendation, or need additional information please let us know.

Respectfully,

**THE WOOTEN COMPANY**



Carl Scharfe, P.E.

Enclosure

**BID SUMMARY**  
 ONW/ASA  
 SE SERVICE AREA WASTEWATER CAPACITY IMPROVEMENTS – CONTRACT 1B PUMP STATIONS  
 JACKSONVILLE, NORTH CAROLINA

BID DATE/TIME: February 27, 2025 @ 2:00 P.M.

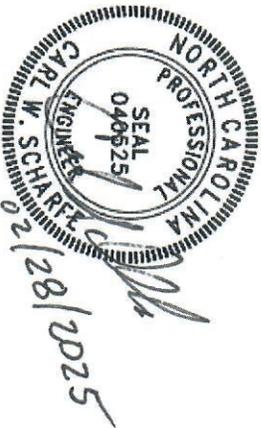
TWC No. 2896-AM

CONTRACTORS	LIC. NO.	CLASS.	BID BOND	Add. 1 – Add. 7	TOTAL BASE BID	REMARKS
T.A. Loving Company P.O. Box 919 Goldsboro, NC 27533	00325	UL - UNCLASSIFIED	Yes	Yes	\$12,468,100.00	Apparent Lowest Bidder
Sunland Builders, Inc. 4846-A Hwy 24 Newport, NC 28570	24941	UL – BUILDING / HWY / PU	Yes	Yes	\$16,795,786.00	

EXHIBIT B

This is to certify that the bids tabulated herein were publicly opened and read aloud at 2:00 p.m. on the 27th day of February 2025, at the Onslow Water and Sewer Authority, 228 Georgetown Road, Jacksonville, North Carolina, and that all said bids were accompanied by either a certified check or bidder's bond except as otherwise noted.

THE WOOTEN COMPANY



Carl W. Scharfe, P.E.

**ONSTLOW WATER & SEWER AUTHORITY  
DIXON WATER TREATMENT PLANT EXPANSION PROJECT  
PROJECT NUMBER CIP-038**

**PROJECT ORDINANCE**

**BE IT ORDAINED** by the Board of Directors of Onslow Water & Sewer Authority (ONWASA) that, pursuant to Section 13.2 of Chapter 159 of the General Statutes of North Carolina, the following Dixon Water Treatment Plant Expansion Project is hereby adopted:

**Section I.**

The Dixon Water Treatment Plant Expansion Project shall consist of the design and construction services for the upgrades to the Dixon Water Treatment Plant to accommodate expansion from 4 MGD to 6 MGD. This phase of the project includes a new 18” raw meter, meter vault, and associated piping, a new detention tank equipped with a new 2100 gpm updraft aerator and two new 100 HP filter pumps, upgrading the existing 2 MGD high service pumps to 5 MGD, upgrading equipment monitoring to VT SCADA software, the addition of aeration to the existing clear wells, and electrical modifications to the security light, Well 1, and the motor control center.

**Section II.**

The officers of Onslow Water & Sewer Authority are hereby directed to proceed with the Dixon Water Treatment Plant Expansion Project, Project Number CIP-038

**Section III.**

The following revenue is anticipated to be available to complete the project:

Future Financing	\$ 5,000,000
Total	<u>\$ 5,000,000</u>

**Section IV.**

The following amounts are appropriated for the project:

Professional Services, Admin.	\$ 3,000,000
Construction Services	\$ 2,000,000
Total	<u>\$ 5,000,000</u>

**Section V.**

The Finance Officer is hereby directed to maintain within the Water & Sewer Fund sufficient specific detailed accounting records to provide the accounting required by federal and state regulations and in accordance with generally accepted accounting procedures.

**Section VI.**

The Finance Officer is directed to report monthly on the financial status of the project and on the total revenues received.

**Section VII.**

The Budget Officer is directed to include an analysis of past and future cost and revenues on this project as a part of every budget submission made to this Board.

**Section VIII.**

Copies of this Dixon Water Treatment Plant Expansion Amended Project Ordinance shall be made available to the Budget Officer for direction in carrying out these projects.

Adopted this 20<sup>th</sup> day of March 2025.

ONslow WATER & SEWER  
AUTHORITY BOARD OF  
DIRECTORS

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Michael Royce Bennett, Chairman

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Heather Norris, Clerk to the Board

## EXHIBIT C

Project Ordinance  
Dixon Water Treatment Plant Expansion Project  
Project Number CIP-038  
Budget Amendment  
March 20, 2025

## Budget Amendment Fund 42

Department Number	General Ledger Name	General Ledger Number	Amount
	Revenue – Fund Balance App/Future Financing	3809940	\$5,000,000
8214	Expenditure – Professional Services – DWTP Expansion	8209900	\$3,000,000
8214	Expenditure – Construction – DWTP Expansion	8325800	\$2,000,000

**ONSLow WATER & SEWER AUTHORITY  
NORTH TOPSAIL WWTP CAPACITY IMPROVEMENTS  
PROJECT NUMBER CIP-028**

**PROJECT ORDINANCE**

**BE IT ORDAINED** by the Board of Directors of Onslow Water & Sewer Authority (ONWASA) that, pursuant to Section 13.2 of Chapter 159 of the General Statutes of North Carolina, the following Southeast Regional WWTP Capacity Improvements Project is hereby adopted:

**Section I.**

North Topsail WWTP Capacity Improvements Project shall consist of a progressive design-build construction of a 1.5 MGD expansion at the North Topsail WWTP.

**Section II.**

The officers of Onslow Water & Sewer Authority are hereby directed to proceed with the North Topsail WWTP Capacity Improvements Project, Project Number CIP-028.

**Section III.**

The following revenue is anticipated to be available to complete the project:

Future Financing	\$52,000,000
Total	<u>\$52,000,000</u>

**Section IV.**

The following amounts are appropriated for the project:

Professional Services, Admin, Permits	\$ 2,000,000
Construction	\$ 50,000,000
Total	<u>\$ 52,000,000</u>

**Section V.**

The Finance Officer is hereby directed to maintain within the Water & Sewer Fund sufficient specific detailed accounting records to provide the accounting required by federal and state regulations and in accordance with generally accepted accounting procedures.

**Section VI.**

The Finance Officer is directed to report monthly on the financial status of the project and on the total revenues received.

**Section VII.**

The Budget Officer is directed to include an analysis of past and future cost and revenues on this project as a part of every budget submission made to this Board.

**Section VIII.**

Copies of this North Topsail WWTP Capacity Improvements Project Ordinance shall be made available to the Budget Officer for direction in carrying out these projects.

Adopted this 20th day of March 2025.

ONSLOW WATER & SEWER  
AUTHORITY BOARD OF  
DIRECTORS

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Michael R. Bennett, Chairman

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Heather Norris, Clerk to the Board

EXHIBIT D

Project Ordinance  
North Topsail WWTP Capacity Improvements Project  
Project Number CIP-028  
Budget Amendment  
March 20, 2025

Budget Amendment

Department Number	General Ledger Name	General Ledger Number	Amount
	Revenue – Future Financing	3809940	\$52,000,000
8215	Expenditure – Professional Services	8215400	\$2,000,000
8215	Expenditure - Construction	8335800	\$50,000,000

**ONSLow WATER & SEWER AUTHORITY  
MOUNT PLEASANT ROAD PUMP STATION RELOCATION  
PROJECT NUMBER CIP-036**

**PROJECT ORDINANCE**

**BE IT ORDAINED** by the Board of Directors of Onslow Water & Sewer Authority (ONWASA) that, pursuant to Section 13.2 of Chapter 159 of the General Statutes of North Carolina, the following Mount Pleasant Road Pump Station Relocation Project is hereby adopted:

**Section I.**

The Mount Pleasant Road Pump Station Relocation Project shall consist of: surveying, engineering, design, plan preparation, permitting, bidding, and construction (Phase II) services for a new wastewater pumping station in the Swansboro area collection system to replace the existing pump station on Mount Pleasant Road.

**Section II.**

The officers of Onslow Water & Sewer Authority are hereby directed to proceed with the Mount Pleasant Road Pump Station Relocation Project

**Section III.**

The following revenue is anticipated to be available to complete the project:

NCEM – BRIC Grant Proceeds	\$ 98,512.50
Fund Balance	\$ 76,487.50
Total	<u>\$175,000.00</u>

**Section IV.**

The following amounts are appropriated for the project:

Professional Services, Admin.	\$175,000.00
Total	<u>\$175,000.00</u>

**Section V.**

The Finance Officer is hereby directed to maintain within the Water & Sewer Fund sufficient specific detailed accounting records to provide the accounting required by federal and state regulations and in accordance with generally accepted accounting procedures.

**Section VI.**

The Finance Officer is directed to report monthly on the financial status of the project and on the total revenues received.

**Section VII.**

The Budget Officer is directed to include an analysis of past and future costs and revenues on this project as a part of every budget submission made to this Board.

**Section VIII.**

Copies of this Mount Pleasant Road Pump Station Relocation Project Ordinance shall be made available to the Budget Officer for direction in carrying out these projects.

Adopted this 20<sup>th</sup> day of March 2025.

ONslow WATER & SEWER  
AUTHORITY BOARD OF  
DIRECTORS

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Michael Royce Bennett, Chairman

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Heather Norris, Clerk to the Board

EXHIBIT E

Project Ordinance  
 Mount Pleasant Road Pump Station Relocation Project  
 Budget Amendment  
 March 20, 2025

Budget Amendment Fund 61

Department Number	General Ledger Name	General Ledger Number	Amount
	Revenue – Fund Balance Appropriation	3919940	\$ 76,487.50
9910	Expenditure – Transfer to Capital Project	8000040	\$ 76,487.50

Budget Amendment Fund 40

Department Number	General Ledger Name	General Ledger Number	Amount
	Revenue – Fund Balance	3709998	\$ 76,487.50
	Revenue – NCEM BRIC Grant	3709999	\$ 98,512.50
8795	Expenditure – Professional Services	8935800	\$ 175,000.00

EXTRACTS FROM MINUTES OF THE ONSLOW WATER AND SEWER AUTHORITY

A regular meeting of the Onslow Water and Sewer Authority was held at 6:00 p.m. on March 20, 2025 at the Jacksonville City Hall; 815 New Bridge Street; Jacksonville, North Carolina, the regular place of meeting.

Present:

Absent:

Also Present:

\* \* \* \* \*

\_\_\_\_\_ introduced the following resolution the title of which was read and a copy of which had been previously distributed to each Member:

**RESOLUTION AUTHORIZING THE CHIEF EXECUTIVE OFFICER OF THE AUTHORITY TO DECLARE OFFICIAL INTENT TO REIMBURSE EXPENDITURES UNDER UNITED STATES DEPARTMENT OF TREASURY REGULATIONS ON BEHALF OF SAID AUTHORITY**

BE IT RESOLVED, by the Onslow Water and Sewer Authority (the “Authority”) as follows:

Section 1. It is hereby found, determined and declared by the Board for the Authority as follows:

(a) Section 1.150-2 of the United States Department of Treasury Regulations (the “Regulations”) prescribe specific procedures which will be applicable to certain tax-exempt bonds or notes issued by the Authority including, without limitation, a requirement that the Authority declare its official intent to reimburse certain expenditures with proceeds of debt to be incurred by the Authority prior to, or within sixty (60) days of, payment of the expenditures to be reimbursed.

(b) The Regulations expressly permit the statement of official intent to be declared by any person designated by the Authority to declare official intent on behalf of the Authority.

(c) The Board for the Authority believes that it is in the best interest of the Authority to authorize and designate the Chief Executive Officer of the Authority as the Authority official responsible for declaring official intent on behalf of the Authority for such purposes.

Section 2. As permitted by the Regulations, the Chief Executive Officer of the Authority is designated by the Board for the Authority to declare the official intent on behalf of the Authority to reimburse any and all expenditures with the proceeds of debt to be incurred by the Authority.

Section 3. This resolution shall take effect upon its adoption.

Upon motion of \_\_\_\_\_, seconded by \_\_\_\_\_, the foregoing resolution entitled “RESOLUTION DESIGNATING THE CHIEF EXECUTIVE OFFICER OF THE AUTHORITY TO DECLARE OFFICIAL INTENT TO REIMBURSE EXPENDITURES UNDER UNITED STATES DEPARTMENT OF TREASURY REGULATIONS ON BEHALF OF SAID AUTHORITY” was adopted by the following vote:

Ayes: \_\_\_\_\_

\_\_\_\_\_  
Noes: \_\_\_\_\_

\_\_\_\_\_

EXHIBIT F

\* \* \* \* \*

I, Heather Norris, Clerk of the Onslow Water and Sewer Authority, DO HEREBY CERTIFY that the foregoing is a true copy of so much of the proceedings of said Board at a regular meeting held on March 20, 2025 as it relates in any way to the passage of the foregoing resolutions and that said proceedings are recorded in the minutes of said Board.

I DO HEREBY FURTHER CERTIFY that proper notice of such regular meeting was given as required by North Carolina law.

WITNESS my hand and official seal of said Authority this \_\_\_th day of March, 2025.

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Clerk  
Onslow Water and Sewer Authority

[SEAL]

**FORM OF DECLARATION OF OFFICIAL INTENT TO REIMBURSE  
EXPENDITURES**

I, Frankie Howard, Chief Executive Officer of the Onslow Water and Sewer Authority (the “Authority”), having been designated by the Authority pursuant to a resolution adopted on March 20, 2025 to make declarations on behalf of the Authority of its official intent to reimburse certain expenditures with proceeds of debt to be incurred by the Authority, DO HEREBY DECLARE AND CERTIFY as follows:

1. The Authority intends to advance its own funds in order to pay certain capital costs (the “Original Expenditures”) described in Exhibit A hereto (the “Project”).

2. The Authority reasonably expects to reimburse itself for such costs of the Project from the proceeds of indebtedness to be incurred by the Authority (the “Indebtedness”).

3. The maximum principal amount of the Indebtedness expected to be incurred by the Authority for the Project is \$52,000,000.

4. This declaration of official intent is made pursuant to Section 1.150-2 of the Treasury Regulations to declare the official intent of the Authority to reimburse itself from the proceeds of the Indebtedness for certain expenditures paid by the Authority in connection with the Project on or after the date which is sixty (60) days prior to the date hereof.

5. All Original Expenditures to be reimbursed by the Authority were paid no more than sixty (60) days prior to, or will be paid on or after the date of, this declaration of official intent, except with respect to certain amounts incurred before such 60-day period not exceeding 20% of the issue price of the Indebtedness which are expended for “preliminary expenditures” within the meaning of Section 1.150-2 of the Treasury Regulations (the “Preliminary Expenditures”). The Authority understands that, except for the Preliminary Expenditures, such reimbursement must occur not later than eighteen (18) months after the later of (a) the date the Original Expenditures were paid and (b) the date the Project is placed in service or abandoned, but in no event more than three (3) years after the Original Expenditures were paid.

7. This declaration shall take effect immediately upon execution hereof.

WITNESS my hand this \_\_\_\_ day of March, 2025

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Chief Executive Officer  
Onslow Water and Sewer Authority

EXHIBIT F

EXHIBIT A

Design, construction, acquisition and installation of expansion of the North Topsail Wastewater Treatment Plant.

**ONSLow WATER & SEWER AUTHORITY  
ADVANCED METERING INFRASTRUCTURE**

**AMENDED PROJECT ORDINANCE**

**BE IT ORDAINED** by the Board of Directors of Onslow Water & Sewer Authority (ONWASA) that, pursuant to Section 13.2 of Chapter 159 of the General Statutes of North Carolina, the following Advanced Metering Infrastructure Project is hereby adopted:

**Section I.**

The Advanced Metering Infrastructure project consists of implementation and installation of a fully operable AMI meter system, which will enable interval automatic reading of all the water meters within the pilot service territory.

**Section II.**

The officers of Onslow Water & Sewer Authority are hereby directed to proceed with the Advanced Metering Infrastructure Project.

**Section III.**

The following revenue is anticipated to be available to complete the project:

Fund Balance	\$ 1,060,462.50
Total	<u>\$ 1,060,462.50</u>

**Section IV.**

The following amounts are appropriated for the project:

Construction	\$ 1,060,462.50
Total	<u>\$ 1,060,462.50</u>

**Section V.**

The Finance Officer is hereby directed to maintain within the Water & Sewer Fund sufficient specific detailed accounting records to provide the accounting required by federal and state regulations and in accordance with generally accepted accounting procedures.

**Section VI.**

The Finance Officer is directed to report monthly on the financial status of the project and the total revenues received.

**Section VII.**

The Budget Officer is directed to include an analysis of past and future costs and revenues on this project as a part of every budget submission made to this Board.

**Section VIII.**

Copies of this Advanced Metering Infrastructure Project Ordinance shall be made available to the Budget Officer for direction in carrying out these projects.

Adopted this 20th day of March 2025.

ONslow WATER & SEWER  
AUTHORITY BOARD OF  
DIRECTORS

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Michael R. Bennett, Chairman

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Heather Norris, Clerk to the Board

EXHIBIT G

Project Ordinance  
 Advanced Metering Infrastructure  
 Amended Budget Amendment  
 March 20, 2025

Budget Amendment – Fund 61 and 40

Department Number	General Ledger Name	General Ledger Number	Amount
	Revenue – Fund Balance Appropriation	3919940	\$1,060,462.50
9910	Expenditure - Transfer to Capital Project	8000040	\$1,060,462.50
8792	Revenue – Fund Balance	3709996	\$1,060,462.50
8792	Expenditure - Construction	8915800	\$1,060,462.50



# Change Order Request Form

# FERGUSON

## WATERWORKS

### PROJECT INFORMATION

<b>Project Name</b>	ONWASA	<b>Change Order #</b>	001
		<b>Date of Request</b>	2/10/25
<b>Project Owner</b>	Onslow Water & Sewer Authority	<b>Project Manager</b>	Leo Casana

<b>Describe the Requested Change</b>	The requested change involves an increase in materials for 5/8" x 3/4" and 1" meters, as well as the addition of materials for 1 1/2" and 2" meters, which ONWASA has chosen to install themselves after the project's completion. Additionally, the number of transmitters required has increased to accommodate these additional meters. This change also accounts for the labor required to install the additional 5/8" x 3/4" and 1" meters. As a result, the original contract total of \$969,025.00 has increased to \$1,023,037.16.
<b>Describe the Reason for the requested change</b>	Upon review of the data provided by ONWASA, discrepancies were identified between the actual field quantities and the quantities originally quoted and accounted for. This change order ensures alignment with the updated data, allowing the contract to accurately reflect the project's requirements
<b>Supporting Documents (List all document(s) attached and describe how they support the Change Request</b>	Copy of Exhibit B: Project Pricing form the Original Contract Agreement

Budget Impact					
Line-Item Name	Line-Item Old Qty	Line-Item Old Cost	Line-Item New Qty	Line-Item New Cost	Total
5/8 x 3/4 iPERL Meter (ADD QTY)	100	\$186.50	152	NO CHANGE	\$9,698.00
1 iPERL Meter (ADD LINE ITEM)	-	-	12	\$330.50	\$3,966.00
1 1/2 Cordonei Meter (ADD LINE ITEM)	-	-	3	\$2,465.50	\$7,396.50
2 Cordonei Meter (ADD LINE ITEM)	-	-	4	\$2,875.95	\$11,503.80
Transmitters (ADD QTY)	1,000	\$188.50	1,071	NO CHANGE	\$13,383.50
5/8 x 3/4 Meter Install (ADD QTY)	1,000	\$75.00	1,052	NO CHANGE	\$3,900.00
1 Meter Install (ADD LINE ITEM)	-	-	12	\$79.00	\$948.00

Copy of Contract Agreement, Exhibit B: Project Pricing

Quantity	Description	Unit Cost	Total Cost	Notes
				Software to include: RMI Setup Fee, Annual RMI, SA Setup Fee, SA Annual, Intergration, Service Management App, Pressure Profile Setup, & Pressure Profile Annual.
1	Software Package	\$ 35,000.00	\$ 35,000.00	
1	Mass Meter File	\$ 5,500.00	\$ 5,500.00	File to insert exchange data into billing system.
1	Training	\$ 3,750.00	\$ 3,750.00	RMI training, SA Training, & Field Training
1	Project Management	\$ 5,000.00	\$ 5,000.00	
1	Mobilization	\$ 10,000.00	\$ 10,000.00	
1	Work Order Management	\$ 2,000.00	\$ 2,000.00	Software used during installation.
1	Storage	\$ 1,000.00	\$ 1,000.00	Connex stored on OHVASA property.
1	M400 Collector	\$ 35,000.00	\$ 35,000.00	
1	Handheld	\$ 1,900.00	\$ 1,900.00	Handheld & Command Link.
900	5/8 x 3/4 aLLY Meter	\$ 515.25	\$ 463,725.00	
100	5/8 x 3/4 IPERL Meter	\$ 186.50	\$ 18,650.00	
1000	Transmitters	\$ 188.50	\$ 188,500.00	
				Installation based upon soil test at desired location and standard installation thus required for install. If extensive requirements are needed additional cost may be aquired. Pole from utility.
1	M400 Tower & Tower Install	\$ 75,000.00	\$ 75,000.00	
1	Soil Condition Test	\$ 10,000.00	\$ 10,000.00	Engineering Cost
1000	5/8 x 3/4 Meter Install	\$ 75.00	\$ 75,000.00	Standard installation.
1000	Meter Box Lid Modification	\$ 14.00	\$ 14,000.00	Drill hole through existing lid.
1	Installation Additions		\$ 15,000.00	
			\$ 969,025.00	

	Tax: \$3,216.36
<b>TOTAL CHANGE VALUE</b>	<b>\$54,012.16</b>

**Decision**

- Approved
  Rejected  
 Approved with modifications
  Deferred

**Justifications**

**Additional Comments**

Approver's Printed Name	Date
Title	
Signature	
Ferguson Approver's Printed Name	Date
Title	
Signature	

SUMMERHOUSE

**ONWASA**



EPA regulates the discharge and treatment of wastewater under the Clean Water Act (CWA). The National Pollutant Discharge Elimination System (NPDES) issues permits to all wastewater dischargers and treatment facilities. These permits establish specific discharge limits, monitoring and reporting requirements. The federal framework, laws, regulations and standards are implemented at the state level.



The Division of Water Resources is responsible for the environmental protection and quality of the State's surface water and groundwater, and to ensure safe drinking water for its residents. This authority is granted in accordance with laws, policies and rules established by the U.S Environmental Protection Agency, the N.C. General Assembly, the Environmental Management Commission, and the Commission for Public Health.

**NCDWR**

**Central Office**  
**Regional Offices**



ONWASA is responsible for providing services to our customers by researching community needs, obtaining permits, facilities, and personnel to operate those facilities in compliance with their respective permitted regulations and limits.



# ONWASA WASTEWATER TREATMENT OVERVIEW



- ▶ **ONWASA Employs 19 Operators in the Wastewater Treatment Facilities Section**
- ▶ **ONWASA wastewater treated in 2024: 813,527,247 gallons, Almost a Billion Gallons!!**
- ▶ **Six (6) Wastewater treatment plants with seven (7) process types:**
  - ▶ **Conventional extended aeration, oxidation ditch.**
  - ▶ **Two types of lagoon treatment, aerated and passive.**
  - ▶ **3 Membrane Bioreactor plants (MBR).**
  - ▶ **Sequencing Batch Reactor plant (SBR).**
- ▶ **Five of the six plants are non-discharge, using both infiltration basins and spray irrigation for effluent disposal. These plant do not discharge to rivers or streams. Summerhouse Plant is Non-Discharge.**

# SUMMERHOUSE WASTEWATER TREATMENT FACILITY

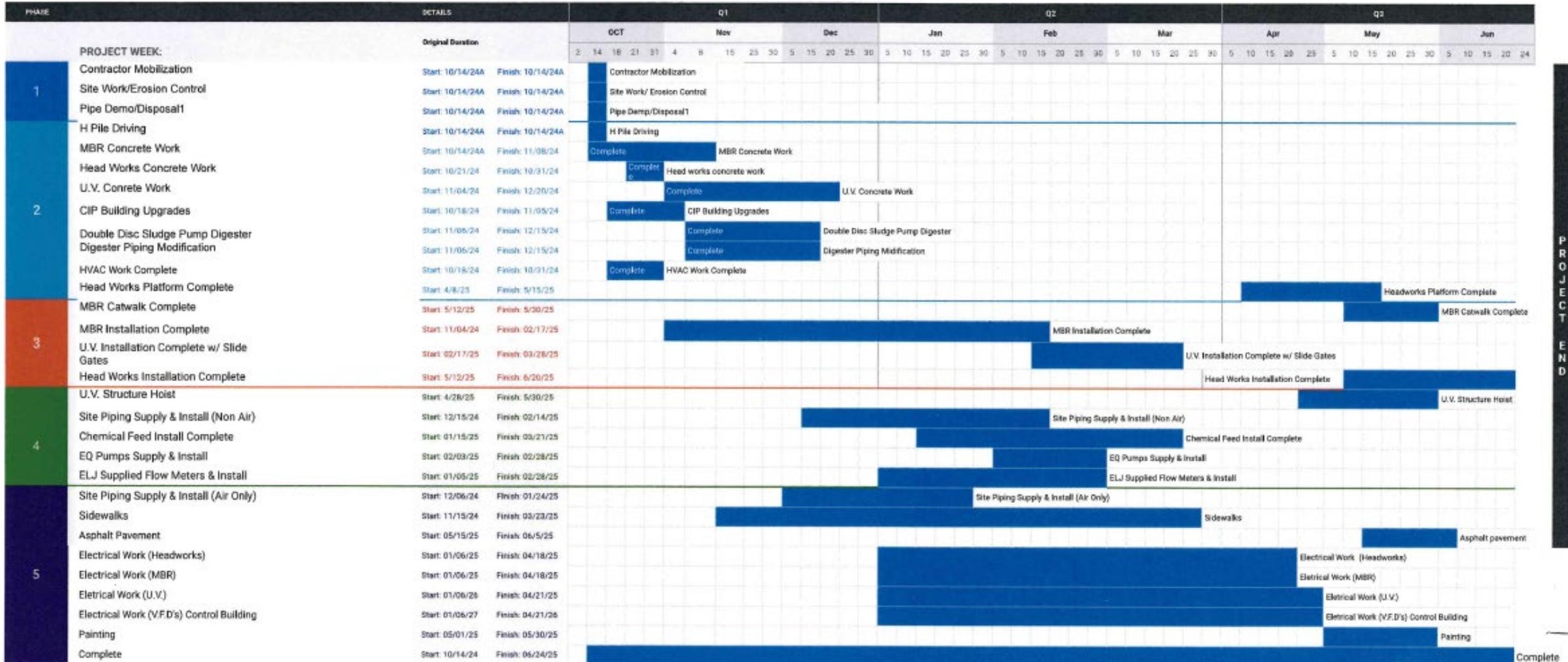
- Acquisition from RA Management to ONWASA
  - Permitted by NCDEQ
  - Stored in Place
- Not enough users for plant operation

Current Upgrades Ongoing  
1<sup>st</sup> Phase Completion – June 2025  
New Flat Plate Membranes  
New Re-Gen Blowers  
New Fine Screens



# Summerhouse WWTP

PROJECT TITLE	Summerhouse WWTP	COMPANY NAME	ELJ Inc
PROJECT MANAGER	Rp Collins	DATE	Start date: 10/14/24



PROJECT END

## PLANT DATA

- ▶ Plant- MEMJET XPRESS by Siemens
- ▶ Operational Type- (MBR) Membrane Biological Reactor – Utilizes Hollow Fiber Membranes
- ▶ Biological Process- Activated Sludge
- ▶ Aerated Influent Flow Equalization
- ▶ Fine Screens
- ▶ Grit Removal
- ▶ Anoxic and Aerobic zones
- ▶ Rescreening
- ▶ Waste Activated Sludge
- ▶ UV Disinfection/ Redundant Sodium Hypochlorite
- ▶ Reject/ Upset Storage
- ▶ High-Rate Infiltration Disposal



# PLANT LIMITATION & MONITORING REQUIREMENTS

ATTACHMENT A – LIMITATIONS AND MONITORING REQUIREMENTS

Permit Number: WQ0029945

Version: 3.0

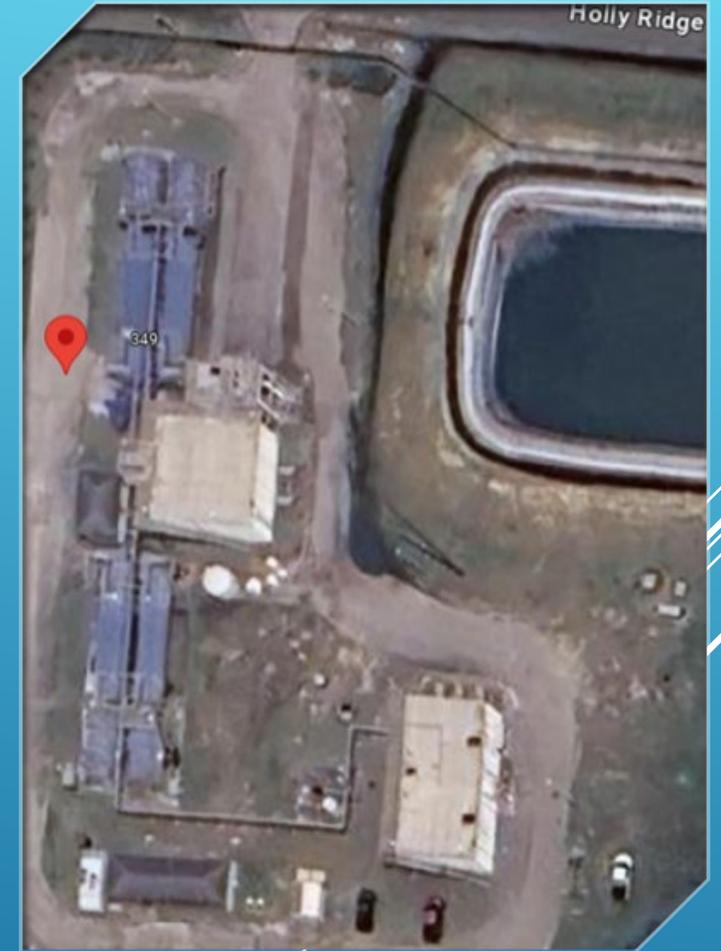
PFI 001 – WWTP Effluent

EFFLUENT CHARACTERISTICS		EFFLUENT LIMITS <sup>1</sup>					MONITORING REQUIREMENTS	
PCS Code	Parameter Description	Units of Measure	Monthly Average	Monthly Geometric Mean	Daily Minimum	Daily Maximum	Measurement Frequency	Sample Type
00310	BOD, 5-Day (20 °C)	mg/L	10			15	2 x Week	Composite
00680	Carbon, Total Organic (TOC)	mg/L					3 x Year <sup>3</sup>	Composite
00940	Chloride (as Cl)	mg/L					3 x Year <sup>3</sup>	Composite
50060	Chlorine, Total Residual	mg/L					5 x Week	Grab
31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C	#/100 mL		14		25	2 x Week	Grab
50050	Flow, in Conduit or thru Treatment Plant	GPD	100,142 / 341,409 <sup>2</sup>				Continuous	Recorder
00610	Nitrogen, Ammonia Total (as N)	mg/L	4			6	2 x Week	Composite
00625	Nitrogen, Kjeldahl, Total (as N)	mg/L					2 x Week	Composite
00620	Nitrogen, Nitrate Total (as N)	mg/L					2 x Week	Composite
00600	Nitrogen, Total (as N)	mg/L	10				2 x Week	Composite
00400	pH	su					5 x Week	Grab
00665	Phosphorus, Total (as P)	mg/L	2				2 x Week	Composite
70300	Solids, Total Dissolved – 180 °C	mg/L					3 x Year <sup>3</sup>	Composite
00530	Solids, Total Suspended	mg/L	5			10	2 x Week	Composite
00076	Turbidity, HCH Turbidimeter	NTU				10	Continuous	Recorder

1. Effluent limits per 15A NCAC 02H .0219(k)(1)

2. The permitted flow will be increased to 341,409 GPD when the Engineering Certification for infiltration basin #1 is received by the Division.

3. 3 x Year sampling shall be conducted in March, July, and November.





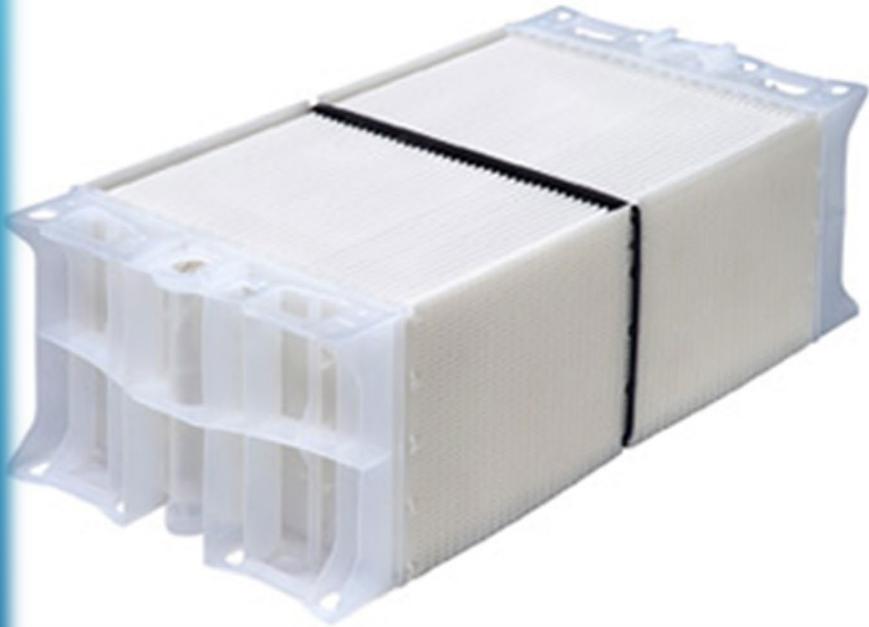
▶ Hollow fiber membranes (HFMs) are a class of artificial membranes containing a semi-permeable barrier in the form of a hollow fiber. Originally developed in the 1960s for reverse osmosis applications, hollow fiber membranes have since become prevalent in water treatment, desalination, cell culture, and medicine.

▶ Disadvantage: Irreversible fouling and fiber breakage are the main problems concerning hollow fiber filtration. Because of the flexibility of the fibers, they are more likely to break when under high strain compared to other methods

## HOLLOW FIBER MEMBRANES



# KUBOTA FLAT PLATE CASSETTE



**Kubota**

*Membrane sheet made from chlorinated polyethylene with a maximum pore size of 0.4 microns.  
(average pore 0.2 micron)*

Increased treatment capacity and improved compliance with plant permit!

► Infiltration Basins are permeable earthen basins, designed and operated to store, disperse, and infiltrate treated effluent from municipal wastewater treatment facilities into the subsurface. Infiltration Basins are typically used in conjunction with wastewater pond systems or small package wastewater treatment plants

## INFILTRATION BASIN

- INFB #1 - Lake Catherine
- INFB #2 - Lake Willow

# ONWASA Projects:

## INFB2/ Lake Willow- Duckweed/ Ecosystem/ Long-term Management

- Explored various solutions to remedy concerns
- Developed work plan to rehab the basin
- Located 3<sup>rd</sup> party firm to address immediate needs and implement long-term management plan
- Sought and obtained approval from NCDWR to rehab basin
- Purchase order obtained, and contractor provided notice to proceed. Scheduled start, February 12, 2025

## Project Notes:

- Manual removal of duckweed/ algae (3-4 tons removed)
- Herbicidal application (Sonar Monday Feb 17<sup>th</sup>)
- Additional aeration system to work with fountain
- Fish (40 Grass Carp, Stock, Feb 20<sup>th</sup> – 21<sup>st</sup>)
- Long-term monitoring/ treatment to maintain healthy ecosystem

# ONWASA Projects Cont.

## Air Jammers- Plant Upset Pond

Installation of 2- pump systems at each end of the plant upset pond with chemical additive to “trap” organic decomposition and reduce odors.



- Project Design approved January 28, 2025
- Request for bids sent out January 29, 2025
- Mandatory contractor site visit, February 6, 2025
- Contractor bids due February 20, 2025
- Received one bid, over budget
- Staff directed to look for alternatives
- After review, with internal project (By Staff)
- Reduced project costs by approx. \$95k
- Project construction/ start, TBD

# FUTURE PROJECTS

- Phase 2 Summerhouse plant rehab/ expansion
  - Phase 1 Holly Ridge Sewer Interceptor Force Main to NTB
  - North Topsail Beach Plant Expansion to 3 MGD
- 
- A decorative graphic consisting of several parallel white lines of varying lengths, slanted diagonally from the bottom right towards the top right, located in the lower right quadrant of the slide.



ONWASA IS COMMITTED TO SERVING OUR COMMUNITY WITH THE BEST CUSTOMER SERVICE POSSIBLE. WE WILL CONTINUE TO RESPOND TO COMMUNITY NEEDS AND PROVIDE WATER AND SEWER SERVICES IN COMPLIANCE WITH OUR PERMITS AND REGULATIONS THAT GOVERN THE ORGANIZATION.

EXHIBIT H



**ONWASA™**

**THANK YOU!**