

**CITY OF MONROE
PUBLIC ENTERPRISE COMMITTEE
300 W. CROWELL STREET, MONROE, NC 28112
TUESDAY, JUNE 4, 2024 - 4:00 PM
AGENDA
www.monroenc.org**

1. Public Enterprise Committee Meeting Minutes of May 7, 2024
2. 2024 Energy Services Rate Study
3. WWTP Admin Building Renovation Budget Amendment and Contract Award
4. Annual Water Quality Report Presentation - Informational Purposes Only

Public Enterprise Committee Minutes

May 7, 2024

City Hall Conference Room

4:00 p.m.

Members Present: Council Member James Kerr (Chair), Council Member Julie Thompson,
Council Member Franco McGee

Staff: Mark Watson, Lisa Hollowell, Terry Sholar, Robert Miller, Scott Clark,
Lisa Strickland, Laurie Broome, Sarah McAllister, Richard Long, Darwin
De Los Santos, Sandra Slifer

Guests: Thomas Pass, Eddie MacEldowney

Council Member James Kerr called the May 7, 2024 Public Enterprise Committee meeting to order at 4:02 p.m.

Item #1: Adoption of Minutes of the April 2, 2024 Meeting

Recommendation:

Council Member James Kerr asked if anyone had any questions or concerns about the minutes, if not, if anyone would like to make a motion that the minutes of the April 2, 2024 Public Enterprise Committee be approved.

Motion: Adopt April 2, 2024 meeting minutes

Motion made by: Council Member Franco McGee

Second: Council Member Julie Thompson

Voting: **In Favor** – Council Member James Kerr, Council Member Julie Thompson, Council Member Franco McGee

Opposed – None

Action: Motion approved

Item #2: Adoption of Minutes of the April 16, 2024 Special Meeting

Recommendation:

Council Member James Kerr asked if anyone had any questions or concerns about the minutes, if not, if anyone would like to make a motion that the minutes of the April 16, 2024 Public Enterprise Special Committee be approved.

Motion: Adopt April 16, 2024 special meeting minutes

Motion made by: Council Member Franco McGee

Second: Council Member Julie Thompson

Voting: **In Favor** – Council Member James Kerr, Council Member Julie Thompson, Council Member Franco McGee
Action: **Opposed** – None
Motion approved

Item #3: Solid Waste Contract Change Order

Recommendation:

Request to consider an increase to the Solid Waste Contract price between the City of Monroe and Waste Pro.

Presentation and Discussion:

Sarah McAllister presented a request for an increase in the solid waste contract with Waste Pro. In March the county landfill increased their per ton weight by \$7.00 per ton for municipal solid waste. The contract allows them to increase annually for CPI and gasoline fuel prices. There is also language that state's any new cost not specifically noted in their contract must be submitted to the City in writing for approval.

Since 2012 the disposal rate has been \$36.00 per ton and charged in the monthly rate for each service which includes solid waste, recycling, yard waste, bulk, downtown dumpsters and City of Monroe facility dumpsters. Waste Pro has requested an increase to the monthly invoice to cover additional fees, currently the monthly cost for all services is \$243,309.36. With their proposal the cost would increase to \$261,464.62, there are six invoices left to pay in this contract term. The total increase will be \$108,931.56. There are sufficient funds in the solid waste fund balance to cover the increase. The Budget Amendment BA2024-13 reflects the request for funds from the Solid Waste fund balance for the three remaining months of FY24. The contract expires as of September 2024 and Staff has been working with Waste Pro to negotiate an extension. Staff plans to bring the contract extension forward next month. Staff has requested a \$3.00 increase to the solid waste fee schedule to cover the disposal increase as well as the CPI increase and the contract renewal negotiation.

Motion: Approve increase requested by Waste Pro for disposal costs, approve BA-2024-13 and authorize the City Manager to execute the necessary change order to the Solid Waste Contract
Motion made by: Council Member Franco McGee
Second: Council Member Julie Thompson
Voting: **In Favor** – Council Member James Kerr, Council Member Julie Thompson, Council Member Franco McGee
Action: **Opposed** – None
Motion approved

Item #4: Request for Sidewalk Variance at Bob Mayberry Hyundai, 3220 Hwy 74

Recommendation:

Consider a request from Steve Galanti, with Davis Martin Powell, to waive the eight-foot wide sidewalk requirement along Fowler Secrest Road associated with the proposed Bob Mayberry Hyundai site development at 322- W Hwy 74.

Presentation and Discussion:

Sarah McAllister began by acknowledging Eddie MacEldowney with Davis Martin Powel and Thomas Pass with Bob Mayberry. City of Monroe Standard Specification and Detail Manual require sidewalks be provided along existing arterial and collection streets as a development requirement based on a list of streets identified in the Manual. Mr. Steve Galanti with Davis Martin Powell is requesting a waiver of the sidewalk requirement along Fowler Secrest Road. The reasons for the request cite existing utilities, current street cross section, and the potential for future NCDOT project to damage the newly installed sidewalk. Sidewalk was also required along the frontage of Hwy 74 but because of the NCDOT project slated which includes the sidewalk along the frontage this was not being required.

Council Member Kerr asked Ms. McAllister if she is endorsing having sidewalks. Ms. McAllister stated that she did not take a position but that it is always good to have sidewalks, that is the point of the Detail Manual to require a new development or redevelopment to share in the cost of installing sidewalks. The plan is to install the sidewalk along the corridor as part of new development and redevelopment and the City would come back in and make any necessary connections. She further stated that there is no destination down Fowler Secrest to walk except the Highway Patrol Station.

Mr. Thomas Pass came forward to provide further details of the Bob Mayberry Hyundai project. He stated that they are tearing down the front part of the building and rebuilding offices within the same footprint of the overall canopy.

Motion: Consider request for a variance from the City's Standard Speciation's and Detail Manual regarding the sidewalk requirements along the property frontage on Fowler Secrest Road for the Bob Mayberry Hyundai project located at 3220 W Hwy 74

Motion made by: Council Member Franco McGee

Second: Council Member Julie Thompson

Voting: **In Favor** – Council Member James Kerr, Council Member Julie Thompson, Council Member Franco McGee

Opposed – None

Action: Motion approved

Item #5: Natural Gas Supply Agreement Amendment between the City of Monroe and Tennergy

Recommendation:

Request to consider approval of Resolutions R-2024-27 for the natural gas supply agreement amendment to the Pre-pay transaction between City of Monroe and Tennergy.

Presentation and Discussion:

Mr. Rob Miller presented a background of the October 2, 2018 30-year agreement with a reset period of five years. The initial reset period for the project ends September 30, 2024. Tennergy is working toward positioning the project for a successful repricing prior to the end of the initial rest period.

The natural gas currently purchased through the Tennergy project is priced at \$.030/MMBtu discount to the monthly market index price. For the upcoming reset period Tennergy estimates the projected discount to be \$0.42/MMBtu, if the City agrees to extend the project gas deliveries through August 2054. Extending the deliveries to an approximately 30-year term will generate approximately \$0.07/MMBtu of the above-projected discount. The length of the next pricing period is projected to be approximately 7 years. The successful reset of this project is contingent on Tennergy's ability to sell the tax exempt bonds needed to finance the prepayment. The actual discount will be dependent upon market conditions at the time of pricing the bonds.

Motion: Recommendation to send Resolution R-2024-27 for Natural Gas Supply Agreement Amendment between with City of Monroe and Tennergy to City Council for approval on the consent agenda and authorize the City Manager to execute the necessary documents.

Motion made by: Council Member Julie Thompson

Second: Council Member Franco McGee

Voting: **In Favor** – Council Member James Kerr, Council Member Julie Thompson, Council Member Franco McGee

Opposed – None

Action: Motion approved

Item #6: 16-in Water Line Easement Abandonment

Recommendation:

Request to consider approval for the abandonment of an easement that is no longer needed for a City of Monroe 16-inch water line that has been realigned as part of the Arborwood Subdivision.

Presentation and Discussion:

The City was granted an easement in October of 1966 and recorded with the Registry of Deeds of Union County, North Carolina on March 8, 1967. The Easement granted to the City was for the purpose of installing, operating, and maintaining all utilities (water, sewer, gas, and electricity) above or below ground and included a provision that “if said utilities fail to fall within designated street when property is developed the City will bear the expense for moving said lines”.

The Arborwood Subdivision has not utilized the street-right-of-ways in which the existing 16-inch water line is and the water line has been relocated within the subdivision to facilitate construction.

The City of Monroe entered into an agreement with H&H Constructors, developers of the Arborwood Subdivision regarding the relocation of the 16-inch waterline as well as the need for

the existing easement upon relocation of the water line. The City has fulfilled the requirements of the agreement. The easement is no longer of use for any City of Monroe utilities at this time.

Motion: Recommendation to approve the abandonment of the easement and forward to City Council for approval on the consent agenda.
Motion made by: Council Member Julie Thompson
Second: Council Member Franco McGee
Voting: **In Favor** – Council Member James Kerr, Council Member Julie Thompson, Council Member Franco McGee
Opposed – None
Action: Motion approved

Item #7: 18-in Water Line Easement Abandonment

Recommendation:

Request to consider approval for the abandonment of an easement that is no longer needed for a City of Monroe 18-inch water line that has been realigned as part of the proposed manufacturing facility owned by Windsor Windows Company.

Presentation and Discussion:

The City was granted an easement in July of 1970 and recorded with the Registry of Deeds of Union County, North Carolina on May 28, 1971. The Easement granted to the City was for the purpose of installing, operating, and maintaining all utilities (water, sewer, gas, and electricity) above or below ground and included a provision that “if said utilities fail to fall within designated street when property is developed the City will bear the expense for moving said lines”.

The Windsor Windows industrial development has not utilized the street right-of-ways. The water line has been relocated adjacent to the proposed industrial building to facilitate construction of the infrastructure for the building.

The City of Monroe entered into an agreement with Windsor Window Company to relocate the 18-inch water line as well as the need for the existing easement upon relocation of the water line. The City has fulfilled the requirements of the agreement and the easement is no longer of use for any City of Monroe Utilities and at this time can be relinquished.

City Manager Mark Watson asked how the lines are being abandoned. Mr. Clark explained that one line was AC watermain and a contractor was paid to remove and dispose of the material. The pipe at Windsor Window a good portion of the pipe was removed but the area that remained was filled using flowable material which is a concrete material.

Motion: Recommendation to approve the abandonment of the easement and forward to City Council for approval on the consent agenda.
Motion made by: Council Member Franco McGee
Second: Council Member Julie Thompson

Voting: **In Favor** – Council Member James Kerr, Council Member Julie Thompson, Council Member Franco McGee
Action: **Opposed** – None
Motion approved

Item #8: Outside City Service Request – 1710 W. Franklin St.

Recommendation:

Recommendation to consider an outside City service request for 1710 W. Franklin Street.

Presentation and Discussion:

Water Resources has received a request for outside City services to Grande Events, LLC located at 1710 W. Franklin Street. The reason for the request is an existing septic system failure. All outside City service requests require both City Council and Union County Board of Commissioner (UCBC) approval. The UCBC approved this request on April 1st, 2024. After speaking with the City of Monroe Planning Department it has been determined this parcel would be a good candidate for voluntary annexation. As a matter of policy, outside city water and sewer customers pay double tap fees and double monthly customer base charges on the City accounts.

Motion: Recommendation to approve outside City Sewer service to 1710 W. Franklin Street PIN: 09-274-034 and forward to City Council for consideration on the June 11th consent agenda.

Motion made by: Council Member Franco McGee

Second: Council Member Julie Thompson

Voting: **In Favor** – Council Member James Kerr, Council Member Julie Thompson, Council Member Franco McGee

Action: **Opposed** – None

Motion approved

Item #9: Unionville Indian Trail Pump Station Forcemain Project Contract Award

Recommendation:

Consider a contract award for the installation of a new sanitary sewer force main starting as a continuation of the newly constructed Unionville-Indian-Trail Pump Station Force Main by others to a discharge point on the Bearskin Creek outfall approximately between Creekwood Dr. and Long Pond Ln.

Presentation and Discussion:

Water Resources received formal bid proposals on April 23rd, 2024 for the Unionville-Indian Trail Pump Station Force Main Project. The project involved the construction of approximately 14,000 linear feet of 12” sanitary sewer force main and related appurtenances. Responsive proposals were received and Elite Infrastructure Group, LLC was the lowest responsive bidder at \$2,341,274.25. Staff is recommending award of the contract to Elite Infrastructure Group, LLC

in the budgeted amount of \$1,425,000. Unit prices will remain and the total length of the project will be taken to a point so as to remain within the budgeted amount. The contract period is two hundred forty-five days.

Motion: Recommendation to award the contract for the Unionville-Indian Trail Pump Station Force Main to Elite Infrastructure Group, LLC in the amount of \$1,425,000.00, authorization for the City Manager to executed the necessary documents and send to Council for approval on the May 14th consent agenda.

Motion made by: Council Member Franco McGee

Second: Council Member Julie Thompson

Voting: **In Favor** – Council Member James Kerr, Council Member Julie Thompson, Council Member Franco McGee

Opposed – None

Action: Motion approved

Item #10: Annual Bid Award for Water Resources Treatment Chemicals FY 2025

Recommendation:

Consider bids received and recommend awarding contracts to the various vendors for water and wastewater treatment chemicals.

Presentation and Discussion:

On April 2, 2024 staff received annual bids for the Water and Wastewater Treatment Chemical from various vendors and recommends award to the low bids as follows:

Product	Vendor	Price per Dry LB
Liquid Chlorine	JCI Jones Chemicals	\$2650/ton
Zinc Ortho Polyphosphate	Sterling Water	\$1.897 lb Minimum 80 bags per delivery
Sulfur Dioxide	JCI Jones Chemicals	\$1800 /ton 220 /cylinder
Dry Cationic Polymer- WTP	Polydyne	\$1.98/lb Clarifoc C-3226
Dry Non-Ionic Polymer	Polydyne	\$1.50/lb Clarifoc N-3300P
Calcium Hydroxide Slurry	Polytec Inc	0.075 /dry lb
Dry Cationic Polymer-WWTP	Polydyne	\$1.98/lb Clarifloc SE-1728
Liquid Copper Sulfate	Univar Solutions	\$1.85/lb
Powder Activated Carbon	ARQ Purification	\$1.40/lb Carbpure TRA

Motion: Recommendation to forward to City Council for consideration on the May 14, 2024 consent agenda and the contracts be awarded to the vendor's identified for the water and wastewater treatment chemicals based on the results of the Annual Water Resources Department Treatment Chemical bid and authorize the City Manager to execute the associated contracts.

Motion made by: Council Member Julie Thompson

Second: Council Member Franco McGee

Voting: **In Favor** – Council Member James Kerr, Council Member Julie Thompson, Council Member Franco McGee
Action: **Opposed** – None
Motion approved

There being no further business, the meeting is adjourned at 4:34 p.m.

James Kerr, Chair

Next Meeting – June 4, 2024



STAFF REPORT

TO: Public Enterprise Committee
VIA: Mark Watson, City Manager
DATE: June 4, 2024
FROM: Rob Miller, Energy Services Director
PREPARED BY: Rob Miller, Energy Services Director
SUBJECT: 2024 Energy Services Rate Study

SUMMARY STATEMENT

The City of Monroe Energy Services contracted Utility Financial Solutions (UFS) to complete a review of the City's Electric and Natural Gas rates.

REVIEW

UFS has completed a review of the City's Electric and Natural Gas existing rates, rate structure, cost of service, capital improvement and operating plans, fund balance requirements, and future revenue requirements/cash flow. In addition, UFS specifically reviewed the line extension policy for new developments and lowering the requirements to be a Natural Gas transportation customer.

RECOMMENDATION

Staff will review the information and recommendations with the Public Enterprise Committee. The Public Enterprise Committee will provide input for recommendations to City Council.



STAFF REPORT

TO: Public Enterprise Committee

VIA: William M. Watson, City Manager

DATE: June 4, 2024

FROM: Scott E. Clark, Director of Water Resources

PREPARED BY: Amy Cook, Water Resources General Manager of Operations

SUBJECT: Budget Ordinance to Cover Cost of Wastewater Treatment Plant Administration Building Interior Renovation and Contract Award for Wastewater Treatment Plant Administration Building Interior Renovation

SUMMARY STATEMENT

The Public Enterprise Committee is requested to consider a Budget Ordinance in the amount of \$256,000 and a contract award in the amount of \$232,780.25 in order to renovate the interior of the Wastewater Treatment Plant administration building.

REVIEW

The City of Monroe Wastewater Treatment Plant's (WWTP) administration building was originally constructed in 1965 with an expansion in the mid 1980's. Water Resources' initial plan for replacement or expansion of the building was to be included in the proposed 3.0 MGD wastewater treatment plant expansion. However, as a result of rapidly increasing construction costs, it was determined to delay the building replacement or expansion to coincide more closely with the culmination of the 3.0 MGD plant expansion. Water Resources desires to improve the safety and working conditions of the existing building for City staff.

The administration building houses the WWTP laboratory, control room, pretreatment program offices and other ancillary space. Currently, the ceiling, floors, and walls exhibit deterioration due to water intrusion from leaky windows and roofing. Many of the doors, lighting, and electrical and plumbing fixtures throughout the building are inadequate or inoperable. The roof for the building was replaced in May, 2024.

The Water Resources Department solicited informal bid proposals for this project. The following contractors, along with their respective responses, were invited to bid.

<u>Contractor</u>	<u>Amount</u>
D.A.P. Contracting, Inc.	\$232,780.25
HC Rummage General Contractor	\$301,365.00
HOSS Contracting	Declined invitation
Roby Commercial General Contractor	Unresponsive

D.A.P. Contracting, Inc. was identified as the lowest responsive and responsible bidder.

Water Resources will need a Budget Ordinance in the amount of \$256,000.00 from the Water and Sewer Fund Balance to provide funding for construction costs with a 10% contingency for interior renovation of the Wastewater Treatment Plant administration building.

RECOMMENDATION

It is the recommendation of Staff that the Public Enterprise Committee take the following action:

Motion to approve Budget Ordinance BO-2024-13, to approve the contract for the interior renovation of the Wastewater Treatment Plant administration building in the amount of \$232,780.25, to authorize a 10% project contingency, to authorize the City Manager to execute the necessary agreements, and to forward stated items to City Council for consideration on the June 11, 2024 consent agenda.

Attachment(s):

BO-2024-13

Contract for Wastewater Treatment Plant Administration Building Interior Renovation

**CAPITAL PROJECT BUDGET ORDINANCE
MONROE WWTP FLOW EQUALIZATION BASIN PROJECT
BO-2024-13**

WHEREAS, the City desires to provide reliable, sanitary sewer service to the citizens of Monroe; and

WHEREAS, the City desires to provide a safe, clean and efficient work place environment for the employees of Monroe; and

WHEREAS, it is imperative to effectively operate and maintain the Monroe Wastewater Treatment Plant and administrative buildings; and

WHEREAS, the laboratory, control room, pretreatment program offices and other ancillary space are located in the Monroe Wastewater Treatment Plant Administration Building; and

WHEREAS, the ceiling, floors, and walls exhibit deterioration due to water intrusion from leaky windows and roofing; and

WHEREAS, doors, lighting, and electrical and plumbing fixtures throughout the building are inadequate or inoperable; and

WHEREAS, the City desires to renovate the building interior to replace and update ceilings, walls, floors, windows, lighting, electrical and plumbing, fixtures; and

WHEREAS, the Administration Building roof was replaced in May, 2024; and

WHEREAS, it is recommended that \$256,000.00 be transferred from the Water and Sewer Fund to the project, Wastewater Treatment Plant Administration Building Renovation.

NOW, THEREFORE, BE IT ORDAINED that the City Council hereby provides additional funding for the Monroe Wastewater Treatment Plant Administration Building Renovation, Project SR2343 as follows:

Water & Sewer Fund:

Revenues:

Appropriation of Fund Balance	\$ 256,000
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Expenses:

Transfer to Water & Sewer Capital Project Fund	\$ 256,000
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Water & Sewer Capital Project Fund:

Revenues:

Transfer from Water and Sewer Fund	\$ 256,000
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Expenditures

Capital Improvements SR2343	\$ 256,000
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Adopted this 11th day of June, 2024.

Attest:

Robert A. Burns, Mayor

Bridgette H. Robinson, City Clerk



STAFF REPORT

TO: Public Enterprise Committee

VIA: Mark Watson, City Manager

DATE: June 4, 2024

FROM: Scott Clark, Water Resources Director

PREPARED BY: Amy Cook, Water Resources General Manager of Operations

SUBJECT: Annual Water Quality Report Presentation for Informational Purposes

SUMMARY STATEMENT

Water Resources staff will provide a brief presentation on the Annual Water Quality Report. This presentation is for informational purposes only.

REVIEW

The City of Monroe Water Resources Department continually provides high quality drinking water that meets all state and federal standards to the residents, commercial establishments and industries within the City of Monroe as well as a limited area surrounding the City. Approximately 7-MGD of water is distributed to our customers and community. The U.S. Environmental Protection Agency (EPA) requires each Community Water System to provide a Consumer Confidence Report (CCR) annually to all consumers receiving water from the Community Water System. Water Resources staff will provide a presentation summarizing the material contained in the 2023 report for the Public Enterprise Committee's informational purposes.

RECOMMENDATION

Staff request that the Public Enterprise Committee takes the following action:

No further action necessary as presentation is for informational purposes only.

Attachment(s): Presentation

2023 Annual Water Quality Report

CITY OF MONROE

PRESENTED BY: DAVID RANKIN, WTP SUPERINTENDENT

Annual Water Quality Report

also known as

Consumer Confidence Report or CCR

Annual federal requirement from the EPA

- ◆ Promotes community involvement
- ◆ Due by July 1st
- ◆ Mailed to existing customers by the end of June
- ◆ Currently available on the City of Monroe Website

[City of Monroe, NC > Departments > Water & Sewer > Water Quality Information and Reports \(monroenc.org\)](#) Past 3 years of reports

CCR Content Requirements

- ◆ Water system information
- ◆ Source of water
- ◆ Definitions
- ◆ Detected contaminants
- ◆ Information on monitoring for cryptosporidium, radon, and other contaminants
- ◆ Compliance with drinking water regulations
- ◆ Variances and exemptions
- ◆ Required educational information

CCR is Full Disclosure

- ◆ CCR lists all of the detected contaminants during the report year
- ◆ Detected contaminant = any regulated or unregulated contaminant which is detected at or above the method detection limit
- ◆ Non-detected contaminants should not be listed
- ◆ Template for the CCR comes from North Carolina Department of Environmental Quality

Review of Monroe CCR

- ◆ Contents of the CCR
 - ◆ Our commitment
 - ◆ Water treatment process
 - ◆ Health information
 - ◆ Tap maintenance and issues
 - ◆ Contact information
 - ◆ Lead in drinking water
 - ◆ Substances that could be in the water
 - ◆ Source water assessment
 - ◆ Detected contaminants
 - ◆ Definitions

Source Water

- ◆ Source Water Assessment Program (SWAP) is available from the North Carolina Department of Environmental Quality
- ◆ Identifies the susceptibility of Potential Contaminant Sources (PCS)
- ◆ The water source listed as “Monroe Lakes” includes Lake Monroe, Lake Twitty, and Lake Lee
- ◆ The water source listed as the “Catawba River” is the water purchased from Union County that comes from the Lancaster Water and Sewer District

Water Quality Data tables

REGULATED SUBSTANCES							
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]	MCLG [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Asbestos (MFL)	2022	7	7	ND	NA	No	Decay of asbestos cement water mains; erosion of natural deposits
Atrazine (ppb)	2023	3	3	0.78	0.27–1.61	No	Runoff from herbicide used on row crops
Chloramines (ppm)	2023	[4]	[4]	3.34	1.09–4.28	No	Water additive used to control microbes
Chlorine (ppm)	2023	[4]	[4]	3.79	1.89–4.32	No	Water additive used to control microbes
Dinoseb (ppb)	2023	7	7	ND	NA	No	Runoff from herbicide used on soybeans and vegetables
<i>E. coli</i> [at the groundwater source] (positive samples)	2023	NA	0	0	NA	No	Human and animal fecal waste in untreated groundwater
Fluoride (ppm)	2023	4	4	0.67	ND–0.67	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (ppm)	2023	10	10	ND	NA	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (ppm)	2023	1	1	ND	NA	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Simazine (ppb)	2023	4	4	0.43	ND–0.43	No	Herbicide runoff

Water Quality Data Table

Treatment Techniques

Total Coliform Bacteria (positive samples)	2023	TT	NA	0	NA	No	Naturally present in the environment
Total Organic Carbon [TOC] (removal ratio)	2023	TT ¹	NA	1.39	1.39–1.73	No	Naturally present in the environment
Turbidity (NTU)	2023	TT = 1 NTU	NA	0.27	NA	No	Soil runoff
Turbidity (lowest monthly percent of samples meeting limit)	2023	TT = 95% of samples meet the limit	NA	100	NA	No	Soil runoff

Lead and Copper Data

- ◆ Sample for Lead and Copper every 3 years. 30 homes in which the sample is taken directly from the tap.

Tap water samples were collected for lead and copper analyses from sample sites throughout the community							
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AL	MCLG	AMOUNT DETECTED (90TH %ILE)	SITES ABOVE AL/ TOTAL SITES	VIOLATION	TYPICAL SOURCE
Copper (ppm)	2023	1.3	1.3	ND	0/30	No	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	2023	15	0	ND	0/30	No	Lead service lines; corrosion of household plumbing systems, including fittings and fixtures; erosion of natural deposits

Other Regulated Substances

- ◆ Total trihalomethanes & Haloacetic acids (TTHM/HAA) are byproducts of disinfection in drinking water.



OTHER REGULATED SUBSTANCES							
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	MCL [MRDL]	MCLG [MRDLG]	AMOUNT DETECTED	RANGE LOW-HIGH	VIOLATION	TYPICAL SOURCE
Chloramines [Union County] (ppm)	2023	NA	NA	2.39	0.7–3.9	No	Water additive used to control microbes
Chlorine [Union County] (ppm)	2023	NA	NA	1.63	0.14–2.9	No	Water additive used to control microbes
HAA5 [B01] (ppb)	2023	60	NA	35	29–43	No	By-product of drinking water disinfection
HAA5 [B02] (ppb)	2023	60	NA	22	9–32	No	By-product of drinking water disinfection
HAA5 [B03] (ppb)	2023	60	NA	32	27–42	No	By-product of drinking water disinfection
HAA5 [B04] (ppb)	2023	60	NA	29	17–29	No	By-product of drinking water disinfection
TTHM [B01] (ppb)	2023	80	NA	58	47–68	No	By-product of drinking water disinfection
TTHM [B02] (ppb)	2023	80	NA	49	11–60	No	By-product of drinking water disinfection
TTHM [B03] (ppb)	2023	80	NA	57	43–67	No	By-product of drinking water disinfection
TTHM [B04] (ppb)	2023	80	NA	45	20–61	No	By-product of drinking water disinfection

Unregulated Substances

- ◆ PFAS sampling results – sampled once per quarter in 2023
- ◆ Sampled for 30 different compounds

UNREGULATED SUBSTANCES ²				
SUBSTANCE (UNIT OF MEASURE)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH	TYPICAL SOURCE
Perfluorobutanesulfonic Acid [PFBS] (ppt)	2023	3.9	3.1–4.7	NA
Perfluorobutanoic Acid [PFBA] (ppt)	2023	ND	ND–6.9	NA
Sodium (ppm)	2023	33.21	NA	NA

Testing for PFAS

Semivolatime Organics	Method	MRL (µg/L)	June 2023 Result (µg/L)	9/21/2023	12/13/2023	3/11/2024
PFAS PIA	533	0.0054<0.0054	<0.0054	0.0069<0.0054		
PFBA	533	0.0043<0.0043	<0.0043	<0.0043	<0.0043	
PFMPA	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
PFPeA	533	0.0032	0.0047	0.0031	0.0041	0.0056
PFBS	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
PFMBA	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
PFEESA	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
HFPO-DA (GenX)	533	0.0054<0.0054	<0.0054	<0.0054	<0.0054	
NFDHA	533	0.022<0.022	<0.022	<0.022	<0.022	
4:2 FTS	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
PFHxS	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
PFHxS	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
PFHpA	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
PFHxA	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
ADONA	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
PFPeS	533	0.0043<0.0043	<0.0043	<0.0043	<0.0043	
6:2 FTS	533	0.0054<0.0054	<0.0054	<0.0054	<0.0054	
PFOA	533	0.0043<0.0043	<0.0043	<0.0043	<0.0043	
PFHpS	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
PFOS	533	0.0043<0.0043	<0.0043	<0.0043	<0.0043	
PFNA	533	0.0043<0.0043	<0.0043	<0.0043	<0.0043	
9CI-PF3ONS	533	0.0022<0.0022	<0.0022	<0.0022	<0.0022	
8:2 FTS	533	0.0054<0.0054	<0.0054	<0.0054	<0.0054	
PFDA	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
PFUnA	533	0.0022<0.0022	<0.0022	<0.0022	<0.0022	
11CI-PF3OUdS	533	0.0054<0.0054	<0.0054	<0.0054	<0.0054	
PFDoA	533	0.0032<0.0032	<0.0032	<0.0032	<0.0032	
PFTTrDA	537.1	0.0070<0.007	<0.007	<0.007	<0.007	
NETFOSAA	537.1	0.0050<0.005	<0.005	<0.005	<0.005	
NMEFOSAA	537.1	0.0060<0.006	<0.006	<0.006	<0.006	
PFTeDA	537.1	0.0080<0.008	<0.008	<0.008	<0.008	
Lithium	200.7	9.0000<9.00	<9.00	<9.01	<9.01	
4 ppt	10 ppt					
Hazard index MCL=1.0	PFHxS/5	GenX/10	PFBS/2000	PFNA/10	H Index	
1st quarter	0	0	4.7	0	0.00235	
2nd quarter	0	0	3.1	0	0.00155	
3rd quarter	0	0	4.1	0	0.00205	
4th quarter	0	0	5.6	0	0.0028	
Hazard index is only applicable when two or more of these compounds are simultaneously detected						

Conclusion

- ◆ CCR is complete and ready for distribution
 - ◆ Web- based version available now
 - ◆ Mailed to customer
 - ◆ Hand delivered to Apartments, Retirement Homes, Hotels, ETC.
- ◆ All samples and treatment techniques are in compliance with EPA and NC DEQ rules and regulations.
- ◆ Any Question?

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