FAYETTEVILLE PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING DEPARTMENT

APPLICATION FOR WATER SUPPLY SYSTEM EXTENSION

PWC Permit # _____

To: Fayetteville Public Works Commission

_____
(name of board, or council, authorized official and title, or owner)

of _____
(name of city, town, corporation, sanitary district, water company or other)

in the County of _____ , State of _____ authorized by law to act for

the said _____
(name of city, town, corporation, sanitary district, water company or other)

and to expend its funds for the water project described below, herewith submit for the counsel and advice of the Public Works Commission plans and specifications prepared by _____
(engineer or firm)

of _____ for the installation or construction of

_____
(name of project)

in **Cumberland County** and make application to the Public Works Commission for the approval of said plans and specifications as related to public health and protection of public water supplies and public water systems.

These plans have been approved and accepted by the Public Works Commission.
This application is made under and in full accord with the provisions of Chapter 130A-317 of the North Carolina General Statutes, and such other statutes as related to public water systems. The applicant agrees that no change or deviation from the engineering plans and specifications approved by Public Works Commission will be made except as allowed by T15A: 18C.0306 or with the written consent and approval of Public Works Commission or its authorized representative. The applicant agrees that a professional engineer licensed to practice in the State of North Carolina shall submit a statement reflecting that adequate observations during and upon completion of construction by the engineer or by a representative of the engineers office who is under the engineers supervision, indicates that construction was completed in accordance with approved plans and specifications.

Is this a modification of an existing permit? ☐ Yes If yes, provide existing permit number:

Is this a change in developer for an existing permit? ☐ Yes If yes, provide existing permit number:

_____
(Signature of Applicant)

_____
(Type or Print Name Signed Above)

_____
(Street or Box Number)

_____
City State Zip

_____
Date

Water Main Extension Mandatory Information

To present data required by 15A NCAC 18C .0307(b)
Specific citations from 15A NCAC 18C are provided when data is required to confirm compliance with another regulation.

Applicant Information

Applicant name (must be a person): _____

Applicant mailing address: _____

City: _____ State: _____ Zip: _____

Applicant phone numbers: Business: _____ Cell: _____

Applicant e-mail address: _____

Description of Proposed Project

Proposed Project is_____

Provide a summary of the diameter, length and material of all piping proposed in the project.

Diameter of piping	Length of piping	Material
_____ -inch	_____linear feet	_____
_____ -inch	_____linear feet	_____
_____ -inch	_____linear feet	_____
_____ -inch	_____linear feet	_____
_____ -inch	_____linear feet	_____

Location of project: (use address if available; if address is not available use existing roads and intersections and identify municipality).

_____

_____

The proposed project is an expansion of the existing public water system. ☐ Yes ☐ No
The source of water for the proposed project will be provided by a separately owned public water system. ☐ Yes ☐ No

Is the project phased? ☐ Yes ☐ No

If yes, delineate all phases in plan sheets. Partial final approvals may be granted to completed phases specified in this submittal.

_____

_____

If yes, depending on whether the water system does or does not provide fire flow; provide calculations to demonstrate that the project can provide adequate peak demand (domestic peak demand) at the minimum required residual pressure of 30 pounds per square inch gauge (psig) or can provide peak demand with fire flow (domestic peak demand plus fire flow) at the minimum pressure of 20 psig through ***each*** phase of construction.

Provide anticipated project flows for any project that will increase demands

Does the proposed project (as designed) include any in-ground irrigation?	☐ Yes ☐ No
If yes, attach appropriate analysis to address how the system is designed to accommodate the impact of irrigation use on treated water supply, storage needs and system pressure.	☐ Attached
Peak hourly demand (non-fire flow) of proposed project Maximum day demand of proposed project Average day demand of proposed project	_____ gpm _____ gpd _____ gpd
Per Rule .0901, is the proposed project designed to carry fire protection flows for this project?	☐ Yes ☐ No

This form includes the minimum information needed for the Fayetteville Public Works Commission to review water main extension projects. Complex or unique design conditions must be addressed in a supplemental document as deemed appropriate by the design engineer or as requested by PWC.

Signature and seal of Professional Engineer that prepared this application:

I attest that this water application has been prepared by me, or under my responsible charge, and is accurate, complete and consistent with the information supplied in the engineering calculations. I further attest that the proposed design has been prepared in accordance with 15A NCAC 18C. Although this application incorporates data provided by others, inclusion of these materials under my seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design.

Water System-Supplied Information

Information on this page must be updated on an annual basis

Data provided by: Michael P. Smith Date provided: October 21, 2024

Position: Water Resources Asset Management Coordinator

Number of current connections in water system	100,306 connections
Approved number of connections in water system	100,306 connections ☐ N/A – local government system
Current average and maximum day demand of existing system Average day demand is the one day average demand for the latest calendar year.	24.84 average MGD 33.7 maximum MGD
Current maximum daily treated water supply of existing system Maximum daily treated water supply is the maximum quantity of treated water that can be produced and/or purchased by the system.	50.0 maximum MGD
Total elevated storage capacity of existing system	5.0 M gallons
Total ground storage capacity of existing system	36.50 M gallons
Total hydropneumatic storage capacity of existing system	N/A gallons
Contractual storage with other system(s) Attach a copy of the agreement with the providing system	N/A gallons
Systems > 300 connections or systems < 300 connections without hydropneumatic storage:	
• Total storage volume is at least half the average annual daily demand (Rule .0805(c))	☒ Yes ☐ No
• Has elevated storage or meets high yield aquifer criteria (Rule.0405(d))	☒ Yes ☐ No ☐ N/A
• For municipalities, at least 75,000 gallons elevated storage and at least half the average day demand combined elevated and ground finished water storage (Rule .0805(b))	☒ Yes ☐ No ☐ N/A
Systems with hydropneumatic storage tanks up to 300 connections:	
• Volume of hydropneumatic storage tank is sufficient to meet peak demands based on Rule .0802 and calculations in Appendix B, Figure 6	☐ Yes ☐ No ☒ N/A
• For residential community systems, volume of hydropneumatic storage tank is at least 40 times the number of connections or 500 gallons, whichever is greater (Rule .0803)	☐ Yes ☐ No ☒ N/A
• For mobile home park systems, volume of hydropneumatic storage tank is at least 25 times the number of connections or 500 gallons, whichever is greater (Rule .0803)	☐ Yes ☐ No ☒ N/A
• For campground systems, volume of hydropneumatic storage tank is at least 10 times the number of connections or 500 gallons, whichever is greater (Rule .0803)	☐ Yes ☐ No ☒ N/A

Status of Water System Management Plan (WSMP)

Check one of the following, and if applicable, provide the required information:

☐ Not Applicable (For "Unregulated" Public Water Systems that meet all criteria of the NC General Statutes 130A-314)

☒ The WSMP that includes this project, as defined in the attached engineering plans and specifications, was previously submitted.

Provide the Following:

Water System Name: **City of Fayetteville**

Owner Name: **Public Works Commission**

PWS I.D. No: **03-26-010**

WSMP No: **12-00243**

WSMP Submittal Date: **March 14, 2012**

County: **Cumberland**

By my signature below, I certify that the previously submitted WSMP contains the information required by Rule .0307 (c) for the project defined in the attached engineering plans and specifications.

NAME **Kevin Howell, P.E.** TITLE **PWC Water Resources Engineering Manager**

(Type or Print Name)

(Owner, Manager, Mayor or Chairman)

SIGNATURE _____ DATE _____