FAYETTEVILLE PUBLIC WORKS COMMISSION
WATER RESOURCES ENGINEERING DEPARTMENT

APPLICATION FOR SANITARY SEWER SYSTEM EXTENSION

PWC Permit # _____

This application is for sewer extensions involving gravity sewers, pump stations and force mains, or any combination thereof. The applicant and the design engineer must certify that the project meets the requirements of 15A NCAC 02T and that **plans, specifications and supporting documents have been prepared in accordance with 15A NCAC 02T, Fayetteville PWC Minimum Design Criteria, and good engineering practices.**

I. Applicant and General Project Information

1. _____
2. _____
3. _____
   Signing Official per 15A NCAC 2T .0106(b)
4. _____
5. _____
6. Applicant Type:
   ☐ Corporation ☐ General Partnership ☐ Individual
   ☐ Privately-Owned Public Utility ☐ Municipal ☐ State/County
   ☐ Federal ☐ Other:
   - If a corporation or LLC, submit documentation indicating the Applicant is registered for business with the North Carolina Secretary of State
   - If the Applicant is a Partnership or d/b/a, submit a copy of the certificate filed with the Register of Deeds in the county of business
7. Application/Project Status:
   ☐Proposed (New Permit) ☐Existing Permit/Project

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

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

   For modifications, **also attach a detailed narrative description that includes the following**:
   ☐ Identify the previously permitted items to remain in the permit.
   ☐ Items to be added, and/or items to be modified. Include whether any previously permitted items have been certified.
   ☐ Clearly identify the requested permitting action and accurately describe the sewers to be listed in the final permit.
8. _____ Located in Cumberland County
9. ☒ After installation and PWC's acceptance, ownership of the proposed sewer system will be relinquished to Fayetteville PWC. The Applicant as designated above shall execute an Agreement for Utility Service(s) or a Utility Service Commitment Agreement prior to PWC accepting ownership of the system.

II. Engineer Information

1. _____
2. _____
3. _____
4. _____

III. Downstream Sewer and Treatment Facility Information

1. Fayetteville PWC — Owner of Receiving Sewer
2. _____ — Permit # of Receiving Sewer (if known)
3. _____ — Receiving Sewer Size
4. Facility that will treat wastewater from this project:
   ☐ Rockfish WWTF: Permit NC 0050105 ☐ Cross Creek WWTF: Permit NC 0023957

IV. Nature of Wastewater Generated by this Project

1. Origin of Wastewater (Check all that apply)

☐ Residential (Individually Owned)
☐ Residential (Leased)
☐ School / preschool / day care
☐ Food and drink facilities
☐ Businesses / offices / factories
☐ Other (Explain in Attachment)
☐ Retail (stores, centers, malls)
☐ Retail with food preparation/service
☐ Medical / dental / veterinary facilities
☐ Church
☐ Car Wash
☐ Hotel and/or Motels
☐ Swimming Pool /Clubhouse
☐ Swimming Pool/Filter Backwash
☐ Nursing Home

2. Nature of Wastewater: ___ % Domestic ___ % Commercial
___ % Industrial (See 15A NCAC 02T .0103(20) and the City of Fayetteville Code of Ordinances)

For Industrial flows, is there a Pretreatment Program in effect? ☐Yes ☐No

3. Has a flow reduction been approved under Rule .0114(f)? ☐Yes ☐No
   - If yes, provide a copy of flow reduction approval letter

4. Summarize wastewater generated by this project

Establishment Type (see 02T.0114(f))	Daily Design Flow[a,b]	No. of Establishment Units	Flow
	gal/		GPD
	gal/		GPD
	gal/		GPD
	gal/		GPD

a. See 15A NCAC 02T .0114(b), (d), (e)(1) and (e)(2) for caveats to wastewater design flow rates (i.e. minimum flow per dwelling; proposed unknown non-residential development uses; and public access facilities located near high public use areas.)
b. Per 15A NCACA 02T .0114(c), design flow rates for establishments not identified in table 15A NCAC 02T .0114 shall be determined using available flow data, water using fixtures, occupancy or operation patterns, and other measured data.

5. Wastewater generated by project: _____ **GPD**
(per 02T.0114) Do not include future flows or previously permitted allocations.

6. If permitted flow is zero, indicate why:

☐ Pump Station/Force Main or Gravity Sewer where flow will be permitted in subsequent permits that connect to this line.
☐ Flow has already been allocated in Permit Number: Permit No.and issuance date:
☐ Rehabilitation or replacement of existing sewers with no new flow expected
☐ Other (Explain):

V. Gravity Sewer Design Criteria (If Applicable)

Summarize gravity sewer mains to be permitted

Size (inches)	Length (ft)	Material

- Section II & III of the MDC for Permitting of Gravity Sewers contains information related to design criteria
- Section III contains information related to minimum slopes for gravity sewer(s)
- **Oversizing lines to meet minimum slope requirement is not allowed and a violation of the Minimum Design Criteria**

VI. Pump Station Design Criteria (If Applicable)

COMPLETE FOR EACH PUMP STATION INCLUDED IN THIS PROJECT

1. _____ _____ _____
   Pump Station ID Latitude Longitude

3. Total number of pumps at the pump station: _____

4. Design flow of the pump station: _____ millions gallons per day (firm capacity)
   - This should reflect the total GPM for the pump station with the largest pump out of service.
5. Operational point(s) per pump(s): _____ gallons per minute (gpm) at _____ feet total dynamic head (TDH)
6. Summarize force main to be permitted (for this Pump Station)

Size (inches)	Length (ft)	Material

If any portion of the force main is less than 4-inches in diameter, please identify the method of solids reduction per MDCPSFM Section 2.01C.1.b. ☐ Grinder Pump ☐ Mechanical Bar Screen ☐ Other (please specify)

7. Indicate the method of power reliability in accordance with 02T.0305(h)(1):

☐ Standby power source or ☐ Standby pump
- Must have automatic activation and telemetry – 15A NCAC 02T .0305(h)(1)(B).
- Required for all pump stations with an average daily flow greater than or equal to 15,000 gallons per day
- **Must be permanent to facility** and may not be portable

Or if the pump station has an average daily flow less than 15,000 gallons per day 15A NCAC 02T .0305(h)(1)(c):

☐ Portable power source with manual activation, quick-connection receptacle and telemetry
☐ Portable pumping unit with plugged emergency pump connection and telemetry
- Include documentation that the portable source is owned or contracted by the applicant and is compatible with the station.
- If the portable power source or pump is dedicated to multiple pump stations, an evaluation of all the pump stations' storage capacities and the rotation schedule of the portable power source or pump, including travel timeframes, shall be provided as part of this permit application in the case of a multiple station power outage.

VII. Setbacks & Separations – (02B .0200 & 15A NCAC 02T .0305(f) and PWC Design Standards):

Setback Parameter	Separation Required
Storm sewers and other utilities not listed below (vertical)	24 inches
Water mains (vertical - water over sewer preferred, including in benched trenches)	18 inches
Water mains (horizontal)	10 feet
Reclaimed water lines (vertical - reclaimed over sewer)	18 inches
Reclaimed water lines (horizontal - reclaimed over sewer)	2 feet
Any private or public water supply source, including any wells, WS-I waters of Class I or Class II impounded reservoirs used as a source of drinking water, and associated wetlands	100 feet
Waters classified WS (except WS-I or WS-V), B, SA, ORW, HQW, or SB from normal high water, and wetlands associated with these waters (see item VII.2)	50 feet
Any other stream, lake, impoundment, or ground water lowering and surface drainage ditches, as well as wetlands associated with these waters or classified as WL	10 feet
Any building foundation (horizontal)	20 feet
Any basement (horizontal)	10 feet
Top slope of embankment or cuts of 2 feet or more vertical height	10 feet
Drainage systems and interceptor drains	5 feet
Any swimming pools	10 feet
Final earth grade (vertical)	36 inches

1. Does the project comply with all separations/alternatives found in.15A NCAC 02T 0305(f) & (g) ☐ Yes ☐No
   - 02T.0305(f) contains minimum separations that shall be provided for sewer systems
   - 15A NCAC 02T .0305(g) contains alternatives where separations in 02T .0305(f) cannot be achieved. Please check "yes" above if these alternatives are used and provide narrative information to explain.
   - Stream classifications can be identified using the NC Surface Water Classifications webpage
   - If noncompliance with 02T.0305(f) or (g), this project must be permitted by the North Carolina Department of Environmental Quality Division of Water Resources after review by Fayetteville PWC.
2. Does this project comply with the minimum separation requirements for water mains? ☐ Yes ☐ No ☐ N/A
   if no, please refer to 15A NCAC 18C .0906(f) for documentation requirements and submit a separate document, signed/sealed by a NC licensed PE, verifying the criteria outlined in that Rule.
3. Does the project comply with separation requirements for wetlands? ☐ Yes ☐ No ☐ N/A
   Please provide supplementary information identifying the areas of non-conformance.
   - See the Division of Environmental Quality draft separation requirements for situations where separation cannot be met
   - No variance is required if the alternative design criteria specified is utilized in design and construction
   - Record documents should reference the location of areas affected
4. Does the project require coverage/authorization under a 404 Nationwide/individual permit or 401 Water Quality Certification? ☐ Yes ☐ No
   - Please provide the permit number/permitting status in the cover letter if cover/authorization is required.
5. Does project comply with 02T.0105(c)(6) (additional permits/certifications)? ☐ Yes ☐ No
   - Per 02T.0105(c)(6), directly related environmental permits or certification applications are being prepared, have been applied for, or have been obtained. Issuance of this permit is contingent on issuance of dependent permits (erosion and sedimentation control plans, stormwater management plans, etc.).
6. Does this project include any sewer collection lines that are deemed "high-priority?" ☐ Yes ☐ No
   - Per 02T.0402, "high-priority sewer" means "any aerial sewer, sewer contacting surface waters, siphon, or sewer positioned parallel to streambanks that is subject to erosion that undermines or deteriorates the sewer." **Siphons and sewers suspended through interference/conflict boxes require a variance approval from NCDEQ.**
   - If yes, include an attachment with details for each line, including type (aerial line, size, material, and location).

VIII. Certifications

1. _____
   Project Name (from I.1)

2. Does the submitted system comply with 15A NCAC 02T, the Minimum Design Criteria for the Permitting of Pump Stations and Force Mains (latest version), the Gravity Sewer Minimum Design Criteria (latest version), the PWC Design Manual, Fayetteville's City Code of Ordinances regarding PWC's Delegated Permitting Program, and other supporting materials as applicable?

   ☐ Yes ☐ No

   If No, this project must be permitted by the North Carolina Department of Environmental Quality Division of Water Resources after review by Fayetteville PWC.

3. Applicant's Certification:

   I, _____, attest that this application for _____ **has been reviewed by me and is accurate and complete to the best of my knowledge.** I understand that if all required parts of this application are not completed and that if all required supporting documentation and attachments are not included, this application package is subject to being returned as incomplete. I understand that any discharge of wastewater from this non-discharge system to surface waters or the land will result in an immediate enforcement action that may include civil penalties, injunctive relief, and/or criminal prosecution. I will make no claim against Fayetteville Public Works Commission should a condition of this permit be violated. I also understand that if all required parts of this application package are not completed and that if all required supporting information and attachments are not included, this application package will be returned to me as incomplete.
   NOTE – In accordance with General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application package shall be guilty of a Class 2 misdemeanor, which may include a fine not to exceed $10,000 as well as civil penalties up to $25,000 per violation.

   _____
   Signature of Applicant's Signing Official (from I.2) Date

4. Professional Engineer's Certification

   I, _____, attest that this application for _____ **has been reviewed by me and is accurate, complete and consistent with the information supplied in the plans, specifications, engineering calculations, and all other supporting documentation to the best of my knowledge.** I further attest that to the best of my knowledge the proposed design has been prepared in accordance with the applicable regulations, Gravity Sewer Minimum Design Criteria for Gravity Sewers (latest version), the Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains (latest version), the PWC Design Manual, Fayetteville's City Code of Ordinances regarding PWC's Delegated Permitting Program, and other supporting materials as applicable. Although other professionals may have developed certain portions of this submittal package, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design.

   NOTE – In accordance with General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application package shall be guilty of a Class 2 misdemeanor, which may include a fine not to exceed $10,000, as well as civil penalties up to $25,000 per violation. Misrepresentation of the application information, including failure to disclose any design non-compliance with the applicable Rules and design criteria, may subject the North Carolina-licensed Professional Engineer to referral to the licensing board. (21 NCAC 56.0701)

North Carolina Professional Engineer's seal, signature, and date: