|  |  |  |  |
| --- | --- | --- | --- |
|  | 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](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf) 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. | Project Name must be consistent with the Project Name on all other documents | | | | | | |
| 2. | Full Legal Name (company, municipality, HOA, utility, etc) | | | | | | |
| 3. | Full Name and Title | | | | | | |
|  | *Signing Official per 15A NCAC 2T .0106(b)* | | | | | | |
| 4. | Address and Street |  | | | | | State Zip Code |
| 5. | ( ) - | Email Address | | | | | |
| 6. | Applicant Type:  Corporation General Partnership  Individual  Privately-Owned Public Utility Municipal State/County  Federal Other: Please Specify | | | | | | |
|  | * 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  If a modification, provide existing permit number: Permit No. and issued date: Date  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. | PIN(s) 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) prior to PWC accepting ownership of the system. | | | | | | |
| II. Engineer Information | | | | | | | |
| 1. | Design Engineer Name & PE Number | | | | | | |
| 2. | Design Engineer Firm | | | | | | |
| 3. | Firm’s Address and Street | City | | | | | State Zip Code |
| 4. | ( ) - | Email Address | | | | | |
| III. Downstream Sewer and Treatment Facility Information | | | | | | | |
| 1. | Fayetteville PWC  Owner of Receiving Sewer | | 2. | Click here to enter text.  Permit # of Receiving Sewer | 3. | Click here to enter text.  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 Flowa,b** | **No. of Establishment Units** | | **Flow** |
|  | Residential Apartments | | \_\_\_ gal/ bedroom | 150 beds [50 Apts @ 3 beds/Apt] | | 18,000 GPD |
|  | \_\_\_ | | \_\_\_ gal/\_\_\_ | \_\_\_ | | \_\_\_ GPD |
|  | \_\_\_ | | \_\_\_ gal/\_\_\_ | \_\_\_ | | \_\_\_ GPD |
|  | \_\_\_ | | \_\_\_ gal/\_\_\_ | \_\_\_ | | \_\_\_ GPD |
|  | \_\_\_ | | \_\_\_ gal/\_\_\_ | \_\_\_ | | \_\_\_ GPD |
|  | 1. 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. 2. 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: 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. | ID as on Plans  Pump Station ID | | 2. | Deg ° Min’ Sec ”  Latitude | | |  | Deg ° Min’ Sec ”  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 at \_\_\_ feet total dynamic head (TDH) | | | | | | | | | |
| 6. | Summarize force main to be permitted (for this Pump Station) | | | | | | | | | |
|  |  | Size (inches) | | | Length (ft) | Material | | |  |
|  |  | \_\_\_ | | | \_\_\_ | \_\_\_ | | |  |
|  |  | \_\_\_ | | | \_\_\_ | \_\_\_ | | |  |
|  |  | \_\_\_ | | | \_\_\_ | \_\_\_ | | |  |
|  |  | \_\_\_ | | | \_\_\_ | \_\_\_ | | |  |
| 7. | 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) \_\_\_  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)): | | | |
| 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: | | |
|  | **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) | 10 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 |  |
|  | * 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](http://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=6e125ad7628f494694e259c80dd64265) * 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.  3. | 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.   Does the project comply with separation requirements for wetlands? (50 feet of separation)  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  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,Full Name and Title,attest that this application for Click or tap here to enter text. **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, Design Engineer Name & PE Number ,attest that this application for Click or tap here to enter text. **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:**