

3021/24



Division of Water  
Commercial and Government Services Section

Department of Natural Resources  
and Environmental Control  
89 Kings Hwy  
Dover, DE 19901  
dnrec.delaware.gov

Phone: (302) 739-9946  
Fax: (302) 739-2296

### INSTRUCTIONS FOR COMPLETING THE PERMIT APPLICATION FOR THE CONSTRUCTION OF WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS

The following items must accompany the application. **Please note that incomplete application packages will be returned in their entirety and not reviewed until such time as all required information is received.**

- 1. A narrative summary of the intended purpose and design of the proposed facilities.
- 2. One (1) set of final construction plans and specifications, if applicable, signed and sealed by a Delaware-registered Professional Engineer, or a Delaware-registered Professional Land Surveyor for gravity systems only. One (1) electronic copy of final Plans.
- 3. One (1) electronic copy of final Plans.
- 4. The final plans must be drawn to scale showing slopes, inverts, pipe types and sizes, existing and proposed ground surfaces, tops of manholes, water lines, stormwater and stream crossings, encasements shown in plan and profile, and other information if pertinent or requested.
- 5. For pump/lift stations and force mains, include all calculations and pump/performance curves.
- 6. A check made payable to the State of Delaware for eight hundred twenty-five dollars (\$825.00), the non-refundable permit review fee. This fee covers the initial review and one follow-up review of any corrections or changes made to address the Division's comments. An additional eight hundred twenty-five dollars (\$825.00) non-refundable review fee must be submitted for resubmission of the plans if changes are made to the project which trigger a complete review of the permit application.
- 7. Your permit will have a public notice requirement if your system includes force mains or pump/lift stations. Include a check made payable to the State of Delaware for three hundred dollars (\$300.00) for the reimbursement of legal notices if the system has a force main connection or a pump/lift station.
- Please submit the completed application package, as outlined above, to DE DNREC, Division of Water, Commercial and Government Services Section, 89 Kings Highway, Dover, DE 19901. Please note, a new application, including the review fee, must be submitted if the Division's comments are not addressed or if requested supplemental information is not provided within one (1) year of the comment or request date.
- The following items must be submitted prior to permit issuance:
- 8. Verification from the appropriate county or municipal planning authority that the project has the proper zoning approval.
- 9. A letter from the owner/operator of the wastewater facilities to which the proposed collection and conveyance facilities connect. The letter must include confirmation that the owner/operator has approved the project, that the owner/operator will take responsibility for treating and disposing of the wastewater to be conveyed and that the downstream facilities have the capacity to manage the additional flows without causing or contributing to violations of Delaware's Environmental Protection Act (7 Del. C., Chapter 60) and the regulations promulgated thereafter. This includes, but is not limited to, unauthorized discharges such as overflows at manholes and violations of the treatment system's operating permit (for example, the National Pollutant Discharge Elimination System (NPDES) permit).

- Visit us on the web at: <https://dnrec.alpha.delaware.gov/water/surface-water/>

**APPLICATION FOR THE CONSTRUCTION OF  
WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS**  
Application must be complete, typewritten or clearly printed

Date Application Submitted 3/12/2024

PROJECT INFORMATION			
Project Name and Location/ Address Rookery Golf Course to Woodfield Expansion Force Main 27052 Broadkill Rd Milton, DE 19968			
Tax Parcel Number(s) 235-8.00-84.00 & 235-8.00-87.00			
County <input type="checkbox"/> Kent <input type="checkbox"/> New Castle <input checked="" type="checkbox"/> Sussex		Watershed (www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx) <input type="checkbox"/> Chesapeake Bay <input checked="" type="checkbox"/> DE Bay/Estuary <input type="checkbox"/> Inland Bays/Atl Ocean <input type="checkbox"/> Piedmont	
Sewer District or Interceptor  N/A		Wastewater Treatment/Disposal Facility Name Beaver Creek Regional Wastewater Treatment Facility	
Anticipated Construction Start Date  Spring 2024		Treatment/Disposal Facility Owner and Operating Permit Number Artesian Wastewater Management, Inc. 359014-06	
Please note, construction permits expire three (3) years from the date of permit issuance.			
Are you requesting plan review and comment on <b>WPCC Construction Permit issuance?</b> (circle one)			
Design Flow (gallons/day) Average 10,000		Peak 20,000	Peak Factor 3.5
Basis of Design Similar facilities			
Description Installation of approximately 408 LF of 3-inch, 200 LF of 6-inch, & 8 LF of 12-inch PVC C900 force main from the existing 3" PVC Rookery Golf Course force main to the proposed Woodfield Preserve Expansion subdivision 12" PVC force main. The existing golf course septic drain field will be abandoned.			
OWNER/DEVELOPER			
Company Name Artesian Wastewater Management, Inc.			
Mailing Address 664 Churchmans Road			
City Newark		State DE	Zip 19702
Contact Name David Spacht			
E-Mail Address dspacht@artesianwater.com			
Telephone (302) 453-6900		Cell	Fax

ENGINEER						
Company Name						
Artesian Wastewater Management, Inc.						
Mailing Address						
664 Churchmans Road						
City		State		Zip		
Newark		DE		19702		
Contact Name						
Daniel W. Konstanski, PE						
E-Mail Address						
dkonstanski@artesianwater.com						
Telephone		Cell		Fax		
(302) 453-6900						
GRAVITY SEWER INFORMATION						
Ownership <input type="checkbox"/> Public <input type="checkbox"/> Private		Type of Sewer System <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?			If Other, list below	
Type of Pipe	Length (ft)	Diameter (in)	Joint Specification	Min. Slope (ft/ft)	Min. Velocity (ft/sec)	
Minimum Pipe Cover (ft)	Number of Manholes	Drop manholes provided? <input type="checkbox"/> Yes <input type="checkbox"/> No		Maximum Distance Between Manholes (ft)		
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? <input type="checkbox"/> Yes <input type="checkbox"/> No			If not, explain provisions to prevent cross-contamination:			
Explain any special challenges (for example, stream, highway and/or railroad crossings, directional drilling, elevated sewers, etc.)						
Comments						

PUMP/LIFT STATION INFORMATION				
Ownership <input type="checkbox"/> Public <input type="checkbox"/> Private	Type of Wastewater <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?		If Other, list below	
Pump Station Flows (gallons/day) Design	Average	Peak	Peak Factor	
Basis of Design		Pump Type		
Will peak flows be accommodated if largest unit fails? <input type="checkbox"/> Yes <input type="checkbox"/> No	Pump calc's and pump curves attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	Cycle Time (minutes)	Wet Well Detention Time (minutes)	
Check valves provided on discharge line? <input type="checkbox"/> Yes <input type="checkbox"/> No		Gate valves provided on discharge line? <input type="checkbox"/> Yes <input type="checkbox"/> No		
If not, explain alternate procedure:				
Ventilation provided in wet well? <input type="checkbox"/> Yes <input type="checkbox"/> No	Dry Well? <input type="checkbox"/> Yes <input type="checkbox"/> No	Is an alarm system included? <input type="checkbox"/> Yes <input type="checkbox"/> No	Alternate source of power? <input type="checkbox"/> Yes <input type="checkbox"/> No	
What other provisions for emergency operations?				
Height of Influent Above Pump (suction head) (ft)		Height of Effluent Above Pump (discharge head) (ft)		Friction Loss (ft)
Pump Design Point	Pump Operating Point	Static Head (ft)	Total Head (ft)	Required Motor Horsepower (hp)
FORCE MAIN INFORMATION				
Type of Pipe PVC C900		Length (ft) 616	Diameter (in) 408' of 3" 200' of 6" 8' of 12"	
Hazen-Williams "C" Design Factor 140	Type of Joints Push-on gasket	Velocity Under Design Conditions (ft/sec) 2.5	Minimum Pipe Cover (ft) 4	
Air relief valves specified? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Clean-outs provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Maximum distance between clean-outs (ft) N/A		
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If not, explain provisions to prevent cross-contamination:		
Comments				



OVER 115 YEARS OF SUPERIOR SERVICE

Artesian Water Company



Artesian Wastewater Management



Artesian Utility Development



Artesian Water Pennsylvania

Artesian Water Maryland



Artesian Wastewater Maryland

March 20, 2024

State of Delaware  
Department of Natural Resources & Environmental Control  
Division of Water  
89 Kings Highway  
Dover, DE 19901

RE: Rookery to Woodfield Forcemain

Artesian has designed and is seeking a permit for the installation of a forcemain through the Rookery Golf Course into our regional wastewater system servicing the Woodfield Preserve Expansion subdivision off Broadkill Road in Sussex County, DE. The overall project also provides a connection point for future projects in the area to be connected to our regional system. The first phase of the project, abandonment and connection of the existing Rookery septic system is part of an existing easement agreement to provide wastewater service to the Rookery clubhouse and maintenance buildings. Once connected, flow will route through the Woodfield collection system and existing pump station. It will be pumped through our regional forcemain on Route 1, Cave Neck Road, Hudson Road and Route 9 for treatment at Artesian's Beaver Creek WWTP.

Please contact me at 302-453-6908 if you have any questions.

Yours very truly,

A handwritten signature in black ink, appearing to read "DK", followed by a horizontal line.

Daniel Konstanski, P.E., BCEE  
Vice President of Engineering

**RECEIPT**

March 20, 2024

**29**

RCVD FROM

Artesian Wastewater Management

\$1,125.00

One Thousand One Hundred Twenty Five Dollars and 00/100 *DOLLARS*

FOR

WPCC 3021/24 Legal notice and permit application fee - Rookery Golf Course to Woodf

ACCT	\$	1,125.00
PAYMENT	\$	1,125.00
	\$	-

<input checked="" type="checkbox"/>	CHECK #	10832
<input type="checkbox"/>	CASH	
<input type="checkbox"/>	OTHER	BY <u>Kevin Bronson</u>

DNREC, Surface Water Discharges Section, 89 Kings Hwy, Dover, DE 19901