

3007/20

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SURFACE WATER



State of Delaware
Department of Natural Resources
& Environmental Control
Division of Water

Surface Water Discharges Section
Construction Permits Branch

89 Kings Highway
Dover, Delaware 19901

Phone: (302) 739-9946
Fax: (302) 739-8369

**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.
3. The final plans must be drawn to scale showing slopes, invert, 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.
4. For pump/lift stations and force mains, include all calculations and pump/performance curves.
5. 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.

Please submit the completed application package, as outlined above, to DE DNREC, Division of Water, SWDS, 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:

6. Verification from the appropriate county or municipal planning authority that the project has the proper zoning approval.
7. 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: <http://www.dnrec.delaware.gov/wr/Services/Pages/SurfaceWaterDischarges.aspx>

Document last revised: May 14, 2013

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**APPLICATION FOR THE CONSTRUCTION OF
WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS**

Application must be complete, typewritten or clearly printed

Date Application Submitted 10/21/19

PROJECT INFORMATION			
Project Name and Location Route 9-Sussex County to Hawthorne Georgetown, DE 19947			
Tax Parcel Number(s) multiple in easement. see plans for list.			
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 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 WWTF	
Anticipated Construction Start Date 1/2020		Treatment/Disposal Facility Owner and Operating Permit Number Artesian Wastewater Management, Inc.	
Please note, construction permits expire three (3) years from the date of permit issuance.			
Are you requesting plan review and comment or WPCC Construction Permit issuance? (circle one)			
Design Flow (gallons/day) Average 300,000		Peak Peak Factor 2.5	Basis of Design
Description Install an 12" PVC forcemain in private easement and right-of-way from Park Avenue, Steiner Road, Lewes-Georgetown Highway (Route 9) and connect to our existing 8" PVC forcemain near the Hawthorne subdivision.			
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 30-453-5800

ENGINEER

Company Name

Artesian Wastewater Management, Inc.

Mailing Address

664 Churchmans Road

City

Newark

State

DE

Zip

19702

Contact Name

Daniel W. Konstanski, P.E.

E-Mail Address

dkonstanski@artesianwater.com

Telephone

302-453-6900

Cell

Fax

302-453-5800

GRAVITY SEWER INFORMATION n/a

Ownership

 Public Private

Type of Sewer System

 Residential Commercial Industrial 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?

 Yes No

Maximum Distance Between Manholes (ft)

Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained?

 Yes 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 n/a				
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) 11,735		Diameter (in) 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Clean-outs provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Maximum distance between clean-outs (ft)		
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				

RECEIPT

January 23, 2020

20151273

RCVD FROM **Route 9 Sussex County to Hawthorne** \$ **825.00**
FOR **Eight Hundred Twenty Five dollars and 00/100** DOLLARS
Plan Review fee Wpcc 3007/20 Route 9 Sussex County to Hawthorne

ACCT	\$	825.00
PAYMENT	\$	825.00
BAL DUE	\$	-

<input checked="" type="checkbox"/>	CHECK #	7387
<input type="checkbox"/>	CASH	
<input type="checkbox"/>	OTHER	BY BY <u>Melissa Kiser</u>

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