

3078/25



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Division of Water

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 (paper copy), if applicable, signed and sealed by a Delaware-registered Professional Engineer, or a Delaware-registered Professional Land Surveyor for gravity systems only.
- ☒ 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.delaware.gov/water/commercial-government/>

ARTESIAN HAS APPROVED THE PLANS, PROVIDED US THE INFORMATION FOR THE APPLICATION AND ATTACHED IS MEMO FROM THEM TAKING OVER THE CPCN TO SERVE THE PROPERTY

APPLICATION FOR THE CONSTRUCTION OF WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS

Application must be complete, typewritten or clearly printed

Date Application Submitted _____

PROJECT INFORMATION			
Project Name and Location/ Address <div style="color: blue; font-weight: bold;">PECK FARM SUBDIVISION MARTIN FARM ROAD MILTON DE 19968</div>			
Tax Parcel Number(s) <div style="color: blue; font-weight: bold;">334-9.00-4.00</div>			
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 checked="" type="checkbox"/> Inland Bays/Atl Ocean <input type="checkbox"/> Piedmont	
Sewer District or Interceptor <div style="color: blue; font-weight: bold;">N/A</div>		Wastewater Treatment/Disposal Facility Name <div style="color: blue; font-weight: bold;">BEAVER CREEK REGIONAL WWTF</div>	
Anticipated Construction Start Date <div style="color: blue; font-weight: bold;">JANUARY, 2026</div>		Treatment/Disposal Facility Owner and Operating Permit Number <div style="color: blue; font-weight: bold;">ARTESIAN WASTEWATER MANAGEMENT, INC. OPERATING Permit # 359014-06</div>	
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 <div style="color: blue; font-weight: bold;">Ph1 44480</div>		Peak <div style="color: blue; font-weight: bold;">Ph 177920 Ph 2 530350</div>	Peak Factor <div style="color: blue; font-weight: bold;">4.0</div>
Basis of Design <div style="color: blue; font-weight: bold;">ACCUMULATED EDUs</div>			
Description <div style="color: blue; font-weight: bold;">Ph 1 Residential Subdivision (128Lots) Wastewater collection, conveyance, pumping station and force main Ph 2 Maloney Subdivision (298 lots) to be permitted separately, Pump station sized to include wastewater discharge .</div>			
OWNER/DEVELOPER			
Company Name <div style="color: blue; font-weight: bold;">RIBERA DEVELOPMENT LLC</div>			
Mailing Address <div style="color: blue; font-weight: bold;">8684 VETERANS HIGHWAY , SUITE 203</div>			
City <div style="color: blue; font-weight: bold;">MILLERSVILLE</div>		State <div style="color: blue; font-weight: bold;">MD</div>	Zip <div style="color: blue; font-weight: bold;">21108</div>
Contact Name <div style="color: blue; font-weight: bold;">JOHN STAMATO</div>			
E-Mail Address <div style="color: blue; font-weight: bold;">JOHNSTAMATO@RIBERADEV.COM</div>			
Telephone <div style="color: blue; font-weight: bold;">443 871 0486</div>		Cell	Fax

ENGINEER					
Company Name PENNONI ASSOCIATES INC					
Mailing Address 18072 DAVIDSON DRIVE					
City MILTON			State DE		Zip 19968
Contact Name ALAN DECKTOR					
E-Mail Address ADECKTOR@PENNONI.COM					
Telephone 302 684 8030		Cell		Fax	
GRAVITY SEWER INFORMATION					
Ownership <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private		Type of Sewer System <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?		If Other, list below	
Type of Pipe C900 PVC SDR 26	Length (ft) 5,891.04	Diameter (in) 8 INCH	Joint Specification PUSH ON	Min. Slope (ft/ft) 0.0028	Min. Velocity (ft/sec) 2
C900 PVC SDR 18	356.98	8 INCH	PUSH ON	0.0028	2
C900 PVC SDR 18	31.81	10 INCH	PUSH ON	0.0028	2
Minimum Pipe Cover (ft) 4.0	Number of Manholes 33	Drop manholes provided? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Maximum Distance Between Manholes (ft) 400	
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:		
Explain any special challenges (for example, stream, highway and/or railroad crossings, directional drilling, elevated sewers, etc.)					
Comments Collection System is for Phase 1 only. Phase 2 (Maloney) will be permitted separately. Pump Station and Force Main designed to accomodate discharge from Maloney					

PUMP/LIFT STATION INFORMATION				
Ownership <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private		Type of Wastewater <input checked="" 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 Ph 1 123.6 gpm Ph 2 382.2 gpm		Average Ph 1 44,480 gpd Ph 2 146,768 gpd	Peak Ph 1 177,920 gpd	Peak Factor 4.0
Basis of Design ACCUMULATED EDUs			Pump Type SUBMERSIBLE	
Will peak flows be accommodated if largest unit fails? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Pump calc's and pump curves attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cycle Time (minutes) 10 MIN	Wet Well Detention Time (minutes) 7.5 MIN
Check valves provided on discharge line? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Gate valves provided on discharge line? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If not, explain alternate procedure:				
Ventilation provided in wet well? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Dry Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is an alarm system included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Alternate source of power? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What other provisions for emergency operations? Backup Diesel Generator . In excess of 24 hrs emergency storage in collection system with no overflows.				
Height of Influent Above Pump (suction head) (ft) 2.04		Height of Effluent Above Pump (discharge head) (ft) 30.61		Friction Loss (ft) Loss varies from 35.79 ft to 103.9 ft
Pump Design Point 76.6	Pump Operating Point 22.63	Static Head (ft) 30.61	Total Head (ft) 134.5 Max	Required Motor Horsepower (hp) 35 hp
FORCE MAIN INFORMATION				
Type of Pipe C900 PVC SDR 18 Push on & Fusible PVC		Length (ft) 6162 ft		Diameter (in) 8 inch
Hazen-Williams "C" Design Factor 150	Type of Joints PUSH ON		Velocity Under Design Conditions (ft/sec) 2.5	Minimum Pipe Cover (ft) 4.0
Air relief valves specified? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 5		Clean-outs provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
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 Force main includes 3 separate directional bores where open cut is complicated The TDH varies depending on the pressure in the host Force Main. TDH varies from 66.4 ft to 134.5 ft . Design flow is maintained through the use of variable frequency drives(VFD)				