



Department of Natural Resources
and Environmental Control

89 Kings Hwy
Dover, DE 19901

dnrec.delaware.gov

Division of Water
Commercial and Government Services Section

Phone: (302) 739-9948

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 two thousand and five hundred dollars (\$2500.00), 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 two thousand and five hundred dollars (\$2500.00) 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/>

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

Application must be complete, typewritten or clearly printed

Date Application Submitted 6-16-26

PROJECT INFORMATION			
Project Name and Location/ Address Lands of Delnova Properties LLC Juliets Way, Lewes, DE 19958 *Located off Camp Arrowhead Road Lewes, DE			
Tax Parcel Number(s) Tax Map Num 234-12.00-Parcels 86.00,86.01,86.02,86.03,86.04,87.00,87.01,87.02,87.03,87.04			
County ☐ Kent ☐ New Castle ☒ Sussex		Watershed (www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx) ☐ Chesapeake Bay ☐ DE Bay/Estuary ☒ Inland Bays/Atl Ocean ☐ Piedmont	
Sewer District or Interceptor Sussex County		Wastewater Treatment/Disposal Facility Name Sussex County Inland Bay Regional Waste Water Facility	
Anticipated Construction Start Date July / August 2026		Treatment/Disposal Facility Owner and Operating Permit Number Sussex County Operations Permit # 359141-05	
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 2,400		Peak 7,536	Peak Factor 3.14
Basis of Design 240 GPD			
Description New Install approved by Sussex County per plan			
OWNER/DEVELOPER			
Company Name Capstone Homes LLC			
Mailing Address 28855 Lewes Georgetown Hwy			
City Lewes		State DE	Zip 19958
Contact Name Jake Booth			
E-Mail Address jbooth@capstone-homes.com			
Telephone 302-644-0300		Cell 302-841-0066	Fax

ENGINEER					
Company Name Scaled Engineering Inc.					
Mailing Address 20246 Coastal Highway					
City Rehoboth Beach			State DE		Zip 19971
Contact Name Carlton Savage					
E-Mail Address carlton@scaledengineering.com					
Telephone 302-227-7808 ext 101		Cell 302-236-3600		Fax	
GRAVITY SEWER INFORMATION					
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				
Ownership ☐ Public ☐ Private		Type of Wastewater ☐ Residential ☐ Commercial ☐ Industrial ☐ 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? ☐ Yes ☐ No	Pump calc's and pump curves attached? ☐ Yes ☐ No	Cycle Time (minutes)	Wet Well Detention Time (minutes)	
Check valves provided on discharge line? ☐ Yes ☐ No		Gate valves provided on discharge line? ☐ Yes ☐ No		
If not, explain alternate procedure:				
Ventilation provided in wet well? ☐ Yes ☐ No	Dry Well? ☐ Yes ☐ No	Is an alarm system included? ☐ Yes ☐ No	Alternate source of power? ☐ Yes ☐ 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 HDPE SDR 11		Length (ft) 658lf - 2", 221lf - 1.5"	Diameter (in) 2" and 1.5"	
Hazen-Williams "C" Design Factor 150	Type of Joints Butt Fusion	Velocity Under Design Conditions (ft/sec) >2fps	Minimum Pipe Cover (ft) 4'	
Air relief valves specified? ☐ Yes ☐ No N/A	Clean-outs provided? ☐ Yes ☐ No N/A	Maximum distance between clean-outs (ft) N/A		
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? ☒ Yes ☐ No		If not, explain provisions to prevent cross-contamination:		
Comments Per Sussex County Approved Plan				