

3033/24



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) 739-8369

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. 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 _____

PROJECT INFORMATION			
Project Name and Location/ Address DelDOT T201709502 - West Camden Bypass			
Upper King Road Camden, DE 19934			
Tax Parcel Number(s) NM-02-094.00-01-12.04; NM-02-094.00-01-12.02			
County <input checked="" type="checkbox"/> Kent <input type="checkbox"/> New Castle <input 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 Camden Wyoming Sewer and Water Authority		Wastewater Treatment/Disposal Facility Name Kent County Regional Resource Recovery Facility	
Anticipated Construction Start Date 8/1/2024		Treatment/Disposal Facility Owner and Operating Permit Number KCRRRF NPDES No. DE 002-0338	
Please note, construction permits expire three (3) years from the date of permit issuance.			
Are you requesting plan review and comment at <u>WPCC Construction Permit issuance</u> (circle one)			
Design Flow (gallons/day) Average 5,928,000	Peak 6,645,000	Peak Factor 1.2	Basis of Design
Description Relocating existing 6" sanitary sewer forcemain system as a result of impacts stemming from DelDOT's West Camden Bypass project.			
OWNER/DEVELOPER			
Company Name Camden Wyoming Sewer and Water Authority			
Mailing Address PO Box 405			
City Camden	State DE	Zip 19934	
Contact Name Harold Scott			
E-Mail Address Kathy@CWSWA.com			
Telephone 302-697-6372	Cell	Fax	

ENGINEER

Company Name
Century Engineering LLC, a Kleinfelder Company

Mailing Address
550 Bay Rd.

City
Dover

State
DE

Zip
19901

Contact Name
Laura Haxton, PE

E-Mail Address
lhaxton@kleinfelder.com

Telephone
302-734-9188

Cell

Fax

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
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		Length (ft) 371	Diameter (in) 6"	
Hazen-Williams "C" Design Factor 150	Type of Joints Bell-and-Spigot	Velocity Under Design Conditions (ft/sec) 2 (minimum)	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) 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:		
Comments Tie to existing manhole within roadway.				

PERMIT APPLICATION
Construction of Wastewater Collection and Conveyance Systems

Narrative Summary

The project is relocating a portion of Camden Wyoming Sewer Water Authority's existing 6" forcemain sanitary sewer, due to conflicts with a proposed DeIDOT Capital Project. The West Camden Bypass (DeIDOT Project No. T201709502) has direct conflicts with the existing sanitary sewer at various locations within the project limits. The sewer relocation work will be performed by the State Contractor.



CAMDEN-WYOMING SEWER & WATER AUTHORITY
P.O. BOX 405, CAMDEN-WYOMING, DE 19934
PHONE: 302/697-6372
FAX: 302/697-2735

April 30, 2024

Andrew Jakubowitch
Century Engineering
550 Bay Road
Dover DE 19901

Subject: West Camden Bypass – Project Approval
Project No. T201709502

Attention: Mr. Jakubowitch,

We have reviewed the plans as submitted, dated 2/6/2024 and approve the relocation of the existing force main. Also note, this relocation is not intended as a capacity upgrade, and that the downstream capacity is not applicable to this project.

If you require any further information, please reach out to me.

Respectfully,

Harold L Scott Sr., CWSWA Superintendent

cc: File

RECEIPT

48

May 3, 2024

RCVD FROM Century Engineering, Inc. \$825.00
FOR Eight Hundred twenty-five dollars and 00/100 DOLLARS
Plan review fee WPCC 3033/24 DelDot West Camden Bypass

ACCT	\$	825.00
PAYMENT	\$	825.00
	\$	-

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

CHECK # 8912
CASH
OTHER BY

Kevin Bronson

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

RECEIPT

49

May 3, 2024

RCVD FROM Century Engineering, Inc. \$300.00
FOR Three Hundred Dollars and 00/100 DOLLARS
WPCC Legal Notice Reimbursement 3033/24

ACCT	\$	300.00
PAYMENT	\$	300.00
	\$	-

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

CHECK # 8913
CASH
OTHER BY

Kevin Bronson

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