

Regulations Governing the  
Design , Installation and  
Operation of Wastewater  
Treatment and Disposal Systems

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Ground Water Discharges Section

# Additions to the Regulations

- Licensing
  - Tiered approach for Class E installers
  - Class I Construction Inspector License
    - These inspectors will inspect new and replacement installations of gravity systems
    - The inspector must hold a Class B or C Designer and pass a test
    - DNREC will provide training and QA/QC
    - License becomes effective 2 years after promulgation of the Regs

# Additions to the Regulations

- ⦿ Systematic elimination of Cesspools and Seepage Pits
  - Systems identified by Class H inspections, compliance inspections and/or upgrades to homes
  - Once identified the owners will have one year to replace the system
- ⦿ Statewide pumpout and inspection requirement
  - Properties utilizing a septic systems that are sold or otherwise transferred to other ownership

# Additions to the Regulations

- Requiring tracking of septic system pump outs
  - Class F Licensed Liquid Waste Haulers to submit to the Department the 911 address and number of gallons pumped
    - DNREC will need to add to existing database fields for this activity
    - Database will track pumpouts every three years and licensees should have access to system for reporting
- Flood Zones/FEMA Standards

# Additions to the Regulations

## ⦿ Performance Standards for systems

- All new and replacement small systems requiring advanced treatment units must adhere to the performance standards at end of pipe, as applicable to its location and/or advanced treatment requirements. These performance standards shall become effective one (1) year from date of regulation promulgation. The performance standards are as follows:

## ⦿ Daily Design Flow

## ⦿ Total Nitrogen

< 2,500 gpd

20 mg/L or 50% reduction

# Performance Standards Cont.

- All new large systems, except spray, requiring advanced treatment must adhere to the performance standards below, as applicable to its permitted daily design flow. The > 300,000 gpd requirement is for Rapid Infiltration Basins (RIB) only. This requirement becomes effective six months from date of promulgation of these regulations. The performance standards are as follows:

<u>Daily Design Flow</u>	<u>Total Nitrogen</u>	<u>Total Phosphorus</u>
2,500 – 19,999 gpd	10 mg/L	7.85 mg/L
20,000 – 299,999 gpd	5 mg/L	3.9 mg/L
> 300,000 gpd non-RIB	5 mg/L	3.9 mg/L
> 300,000 gpd RIB only	4 mg/L	0.5 mg/L

# Additions to the Regulations

- Offset

- “**Offset**” means compensating for the loading of a pollutant of concern from a point or nonpoint source with a reduction in the loading from a different source or sources, in a manner consistent with meeting water quality standards.
- If a person(s) cannot meet the performance standards as defined in the regulations, that person may opt to participate in a nutrient offset program that will be developed by the Department.
  - (Example RIB over 300,000gpd meets 5 TN & 3.9 TP with offsets)

# Additions to the Regulations

- ⦿ Incorporating and updating Spray Regulations
  - GWDS will have all systems in one set of Regulations
  - Distribution of wastewater (Spray on Demand)
    - Accordance with *7 Del. C. §2301(1)*
    - Joint effort with DDA and DNREC to distribute wastewater to farmers
      - For permitting and compliance
    - Looking to permit other activities as well

# Closing

- ⦿ Thanks to all for their assistance
  - Jack Hayes and Sue Marsett
- ⦿ Contact Information
  - Comments to [Jack.Hayes@state.de.us](mailto:Jack.Hayes@state.de.us)
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- ⦿ Web Link
  - <http://www.dnrec.delaware.gov/wr/Information/GWDInfo/Pages/GWDS%20Design%20Install%20Operate%20Info%20For%20Proposed%20Wastewater%20Treatment%20Regulations.aspx>