

# Wastewater Microbiology Process Control

Tuesday, November 12, 2019

Company / System: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Cell: \_\_\_\_\_

Email: \_\_\_\_\_

Please check all licenses and/or categories  
that apply:

Water Operator  Wastewater

Other system personnel  *Please List*

**\*\* Please Register In Advance \*\***

Send your registration to:

Delaware Rural Water Association

210 Vickers Drive, Milford, DE 19963

Phone: 302-424-3792 / Fax: 302-424-3790

Email: delawareruralwater@yahoo.com

## DELAWARE RURAL WATER ASSOCIATION CORPORATE SPONSORS



**This Course Is Funded By:  
USDA Rural Development - WW**

Delaware Rural Water Association Presents:

# Wastewater Microbiology Process Control

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This class will give all attendees a hands-on approach to the microscopic analytical process in wastewater treatment. During the presentation, the instructor will provide examples of biomass used in wastewater for treatment. Attendees will have the opportunity to sample analysis and microscope controls to determine changes in the wastewater treatment process.



Time: 8:00 am - 4:00 pm  
ECH's: 7.0 Hrs. WW -Direct  
Location: Kent County WWTP  
139 Milford Neck Road  
Milford, DE. 19963  
Cost: Free  
Instructor: Steven Leach, Novozymes  
On Behalf of Maryland Biochemical

**Complete & Return**

**www.drwa.org**

## About DRWA

### Mission Statement

The mission of the Delaware Rural Water Association (DRWA) is to improve the quality of utility services for rural Delaware while protecting our natural resources.

To accomplish this mission and to protect the quality of life in rural Delaware, the Delaware Rural Water Association was incorporated in 1990 as a non-profit association. A volunteer Board of Directors that include water operators, town managers, and supervisors throughout the state of Delaware governs.

### Protecting the Public Health

DRWA promotes public health protection for rural communities and small municipalities. The Association trains and assists rural and small community water professionals in their efforts to provide quality drinking water to their communities, neighbors, and families.

### Protecting the Environment

DRWA promotes water conservation and protection through publications and public awareness campaigns. Information and research provided to government officials aid in the development of effective regulations. DRWA is an affiliate of the National Rural Water Association who operates what EPA officials call "the most successful groundwater protection program in the country".

## Training

Specialized training sessions provide water professionals with an opportunity to resolve problems by sharing ideas with state and federal agencies, engineers, contractors, manufacturers, suppliers, and other water system personnel. Training sessions cover a broad spectrum of needs. Subjects range from water treatment and federal water and wastewater regulations to financial management practices and operator certification. The training allows water professionals to upgrade their skill, improve the quality of their utility's service, and protect their community's health.

DRWA's Annual Technical Conference and Exhibition draws water and wastewater professionals, government officials, manufacturers, and suppliers together in one location, allowing them to participate in specialized training and the ability to learn about the latest trends in technology, government regulations, and system management techniques.

DRWA's On-Site Training Unit (OSTU) was developed in cooperation with the Office of Drinking Water and funded through an EPA grant. The unit has classroom space, resource materials, and industry equipment. DRWA has traveled around the state to operators who can't leave their systems to attend training. Hands-on training has been provided for water testing, meter testing, cross-connection, fluoridations, well security and more.

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8:00 am - 4:00 pm

- Class Introduction
- Introduction to Basic Microbiology
  1. Bacteria
  2. Biomass
  3. Protozoa & Metazoa
- Microscope Operation
  1. Phase Contrast
  2. Brightfield
- Importance of Higher Life Forms
  1. Presence of Ideal Organisms
  2. Impact of Shocks
- Microscope Use "Hands-On"
  1. Understanding Operation
  2. Actual Sample Analysis
  3. Staining
- Filaments & Control Using the Microscope
- Review - Questions & Answers



For more classes and information visit us at [www.drwa.org](http://www.drwa.org)