

## Biological Wastewater Process Control

Training Seminar by



### Overview:

This 2-day (16 hours) course is approved as Training for Wastewater Operators, Engineers, & Laboratory personnel.

This seminar will present the process control methodologies and laboratory techniques necessary to control the activated sludge process or any wastewater treatment system with an emphasis on process monitoring & trouble shooting. These approaches are equally applicable to domestic and industrial facilities. Past participants from industries such as Food and Beverage, Wineries, Chemical, Papermill & petrochemical have been successful in applying these methods to control their processes. Municipalities will greatly benefit from this training course. The course will consist of lecture, microscopic analysis, plant audit, demonstrations of certain laboratory procedures and microscope use.

### Course Materials

Each attendee will receive complete class notes on a CD also included is our Wastewater Microscopic / Biological Training CD... valued at \$250.00.

### Who should attend?

The course is designed for all wastewater professionals, particularly operations personnel, such as operators, engineers & laboratory personnel.

Registration Form – 2-Day Biological Wastewater Process Control Seminar by **Tracy Finnegan - Environmental Leverage® Inc.**

*Approved by the State of Florida for CEU's*

June 11<sup>th</sup> Mon. & Tues. 12<sup>th</sup>, 2018

8am - 4:30pm both days

Seminar held at:

Utility Administration Building - City of Tavares  
1000 Captain Haynes Road  
Tavares, FL 32778

\_\_\_\_\_  
Name

\_\_\_\_\_  
Position or Title

\_\_\_\_\_  
Organization

\_\_\_\_\_  
Business Address

\_\_\_\_\_  
City, State & Postal Code

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Email

\_\_\_\_\_  
Registration Fee

**Full 2 Day Course \$395.00**

***Includes lunch both days of class.***

\_\_\_\_\_  
Method of Payment

Check, Visa, Master Card, Discover or PO#

Please register through and make checks or purchase orders to:

**Environmental Leverage Inc.**

812 Dogwood Dr., Suite A

North Aurora, IL 60542

Email: [elfenvironmental@aol.com](mailto:elfenvironmental@aol.com)

Phone: 630-906-9791

## Course Outline

### Day 1 Schedule

Wastewater Basics Overview  
Microbiology Overview  
Floc & Filaments Analyses  
Microscope Use, Techniques & Stains  
Lab Sample Handling & Prep  
Hands on Microscopic Observation  
Visual Observations & Troubleshooting  
Filaments, Zooglea & Foam control  
Solids Carryover & Settling Problems

### Day 2 Schedule

Process Overview & Process Variations  
Process Control Strategies  
Equipment Optimization,  
Preliminary, Primary, Secondary,  
Clarifiers, Digesters and Dewatering  
Settleometer, Clarifier Simulation Test  
Sludge Judge Profile  
Plant Tour (weather permitting)  
Land Application & Biosolids Handling  
Environmental Issues  
Troubleshooting  
Case Histories - Plant Examples

**Please be sure to bring a 100ml / 3-4 oz.'s, of your MLSS sample from your own facility. Microscopic plant biomass analyses will be taught in class for each sample.**

*Leave 1-2 inches air space in bottle. Keep cool & do not freeze. You can overnight ship to address of class, if you cannot carry sample.*

## Are Wastewater Treatment problems getting to you lately?



Don't miss this opportunity to increase your knowledge of biological process control in your wastewater treatment system. Learn how to troubleshoot and optimize your treatment system.

### General Information:

Registration first day is at 7:45 a.m.

2-Day course begins at  
8:00 a.m. to 4:30 p.m.

June 11<sup>th</sup> Mon. & Tues. 12<sup>th</sup> 2018

Lunch will be provided both days by  
*City of Tavares Wastewater Utilities, FL*

**THIS CLASS IS APPROVED FOR CEU  
ACCREDITATION BY THE STATE OF FLORIDA**

**2 DAY CLASS = 1.6 CEU'S**

*Let us know if you're from surrounding  
states for approval*

Register by mail, telephone, email or fax  
through the information below:

**Environmental Leverage® Inc.**

812 Dogwood Drive - Suite A

North Aurora, IL 60542

Fax: 630-906-9792

Phone: 630-906-9791

[elfenvironmental@aol.com](mailto:elfenvironmental@aol.com)

### THE INSTRUCTOR

**Tracy Finnegan** is an environmental engineer with Environmental Leverage® Inc., Illinois. She was formerly associated with Nalco and Suez, where she worked for more than 12 years in numerous positions related to research, operations, design evaluation, auditing and troubleshooting wastewater systems. She now operates her own Environmental Engineering Company that supplies products, training, lab services, audits and auditing services.

[www.EnvironmentalLeverage.com](http://www.EnvironmentalLeverage.com)

Tracy has taught biological wastewater process control to operators & engineers for over 26 years and performed audits and troubleshooting for ~5-6000 industrial and municipal treatment plants. Tracy holds a BS degree in Business Chemistry from Northern Illinois University.

She is a co-author in WEFTEC's Book Wastewater Biology: The MicroLife, and has now developed 12 new wastewater Training CD's.

Course / Seminar Location at:



**Utility Administration Building - City of Tavares  
1000 Captain Haynes Road  
Tavares, Florida 32778**

***This course is approved by*** \_\_\_\_\_

Other states may have different credit systems.  
Contact us for approvals in other states with this class.  
**Airport Info: Orlando, FL**

**For additional information & register contact:  
[Elfenvironmental@aol.com](mailto:Elfenvironmental@aol.com) or (630)-906-9791**

## 2-Day Biological Wastewater Process Control Seminar

June 11<sup>th</sup> Mon. & 12<sup>th</sup> Tues. 2018

*Register early, class size is limited!*

**A Seminar Sponsored by**



*Training provided by Tracy Finnegan of:*



**Hands-On & Interactive Training Course  
Class is limited so register early**

