

## Biological Wastewater Treatment Seminar by



### Overview

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

This seminar will present the process control methodologies and laboratory techniques necessary to control the activated sludge process with an emphasis on process monitoring and trouble shooting. These approaches are equally applicable to domestic and industrial facilities. Past participants from industries such as Food and Beverage, Wineries, Chemical, Paper and petrochemical have been successful in applying these methods to control their processes. The course will consist of lecture, plant audit, and demonstrations of certain laboratory procedures.

### Course Materials

Each attendee will receive complete class notes and a Wastewater Microscopic 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 – Biological Wastewater Process Control Seminar by  
Tracy Finnegan - Environmental Leverage® Inc.

Sept. 1<sup>st</sup> Tues. & Sept. 2<sup>nd</sup> Wed.- 2015  
8am - 4:30pm both days

**Seminar held at:**

**West County Wastewater District**  
**2377 Garden Tract Road, Richmond, CA 94801**

\_\_\_\_\_  
Name

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

\_\_\_\_\_  
Organization

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

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

\_\_\_\_\_  
Business Phone

\_\_\_\_\_  
Email & Business Fax

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

Full 2 Day Course - \$375.00

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., North Aurora, IL 60542**  
Email: [elfenvironmental@aol.com](mailto:elfenvironmental@aol.com)  
Phone: 630-906-9791

## Course Outline

### Day 1 Schedule

Wastewater Basics Overview  
Visual Observations & Troubleshooting  
Microbiology Overview  
Filamentous Identification & Floc Analyses  
Microscope Use, Stains & Techniques  
Hands on Microscopic Observation  
Filaments & Foam control  
Solids Carryover & Settling Problems  
Digesters and Dewatering

### Day 2 Schedule

Process Overview & Process Variations  
Process Control Strategies  
Equipment Optimization, Dewatering  
Settleometer Test,  
Biosolids Land Application  
Lab Sample Handling & Prep  
Plant Tour (weather permitting)  
Land Application & Biosolids Handling  
Environmental Issues  
Review of Troubleshooting  
Case Histories - Plant Examples

### **Accreditation**

**Continuing Education Units (CEU)**  
**will be available to those**  
**who attend, if applicable.**  
Please issue CEU: Yes No

## Are Wastewater Treatment problems getting to you lately?



Don't miss this opportunity to increase your knowledge of biological process control and learn how to troubleshoot and optimize your treatment plant.

### General Information

Registration/check in is at 7:45 a.m.

2-Day course begins at

8:00 a.m. to 4:30 p.m.

Sept. 1<sup>st</sup> Tuesday & Sept. 2<sup>nd</sup> Wednesday-2015

**Lunch will be provided both days by West County Wastewater District**

**Please be sure to bring a 100ml - MLSS sample from your own facility.**

### Registration

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. 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 and engineers for over 24 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 Location: Seminar held at:**  
**West County Wastewater District**  
**2377 Garden Tract Road**  
**Richmond, CA 94801**

California Course is approved for 16 CEU's hrs.  
Other states may have different credit systems.

**For additional information & register contact:**  
**Tracy Finnegan or Staff at (630)-906-9791**

## Biological Wastewater Treatment Seminar

Activated Sludge Systems

Sept. 1<sup>st</sup> Tuesday & Sept. 2<sup>nd</sup> Wednesday-2015

Register early, class size is limited!



A Seminar Sponsored by



Hands-On & Interactive Training Course.



Class is limited so register early

