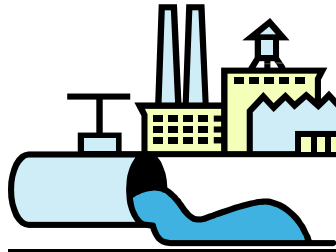


## OPERATION OF EXTENDED AERATION WASTEWATER TREATMENT PLANTS



**6.25 Contact Hours**

**December 11<sup>th</sup>, 2008**

Toronto Ohio  
City Building  
416 Clark St.  
Toronto, Ohio 43964



### **OPERATOR TRAINING COMMITTEE OF OHIO, INC.**

*"Ohio's Environmental Training Center"*  
3972 Indianola Avenue \* Columbus, OH 43214  
(614) 268-6826 \* (614) 268-3244 Fax  
[www.ohiowater.org](http://www.ohiowater.org)

## **Short School Description**

The purpose of this 1-day course is to introduce students to the fundamental operational aspects of extended aeration package plants. The course will present the basic concepts of routine operation, maintenance, process control, reporting and monitoring.

A Certificate of Completion and **6.25 Contact Hours** will be awarded to each participant who successfully completes the course.

## **Registration**

Registration will begin at 7:30 AM. The fee for this course is **\$175.00**. This includes the cost of materials and breaks. Lunch will be provided with the course. The deadline date is 10 days before the event. After the deadline, the fee will be **\$200.00**. After your registration has been accepted and processed, an acknowledgement letter and map will be forwarded to you. To register, fill out the registration form, mail or fax it to Operator Training Committee of Ohio.

## **Cancellation**

Applicants canceling prior to the deadline dates will receive a full refund. Cancellations after the date will be subjected to a \$25.00 service charge. There will be no refunds for those who register and fail to attend. If your registration is not prepaid you will be invoiced. Substitutions are permitted. A confirmation letter and map will be sent out 10 days before the training. Please contact OTCO at (614) 268-6826 if you would like accommodation information.

## Instructor Information

Lonnie McGhee is President of McGhee's Technical Water Services, Inc. He holds a Ohio EPA Class III license in Water & Wastewater. Lonnie oversees the operation of more than 30 extended aeration Wastewater Treatment Plants and provides consulting on many others.

### 7:30 am to 8:00 am - Coffee & Registration

### 8:00 am to 10:00 am - PART I – Basic

Principles of how a WWTP Works  
Introduction to Package EAWWTP Process  
Basic Units of a Package EAWWTP

- Pretreatment
- Flow equalization
- Bar screens & Communitor
- Trash & Grease Traps
- Aeration Basin
- Clarifier
- Sludge returns (RAS)
- Sand Filters
- Chlorination
- Advance Treatment
- Pumps

### 10:00 am to 10:15 am – Break

### 10:15 am to 12:15 pm - PART II – Routine Operation & Maintenance of a EAWWTP

- Pretreatment
- Aeration
- Sludge holding tank
- Advance treatment
- Communitor
- Downfeed assemblies & diffusers
- Blowers
- Sludge returns
- Surface skimmers
- Effluent weirs

### 12:15 pm to 1:30 pm - Lunch

### 1:30 pm to 2:45 pm - PART III – Trouble shooting and understanding the operation of your EAWWTP

- Sensory Observations
- Tests & Interpretations
- Biological Growth Constraints
- Sludge wasting/Biosolids
- Troubleshooting problems
- Proper operational tools

### 2:45 pm to 3:00 pm - Break

### 3:00 pm to 4:00 - PART IV - Monitoring and reporting requirements

- Daily checks and log sheets
- Regulatory requirements
- NPDES Permits
- EPA 4500 Forms
- Ohio EPA swimware reporting
- Understanding effluent limitations
- Operator Certification

The following textbooks will be the student manuals for the short school:

- Ohio EPA Operation and Maintenance Owners of Guide for Package Aeration Sewage Treatment Plants

## OTCO REGISTRATION FORM

Extended Aeration Short School  
December 11, 2008 – Toronto Ohio

(Please print or type below)

OTCO STUDENT ID #:	
FIRST NAME	LAST NAME
TITLE	
EMPLOYER	
ADDRESS (1)	
ADDRESS (2)	
CITY	
STATE	ZIP
BUS. TELEPHONE (    )    -    ext	
FAX (    )    -    (for confirmations)	
EMAIL ADDRESS	
Please check & initial if the above information needs to be updated in the OTCO Training Tracking System. <input type="checkbox"/>	
CHECK/MONEY ORDER #	
P.O. #	
<input type="checkbox"/> Please invoice my company: Charge to my credit card account: <input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> Discover <input type="checkbox"/> AMEX	
Billing Zip Code	(For security purposes)
CARD NO.	
NAME ON CARD	
EXP. DATE    /	
x _____ CARD HOLDER SIGNATURE	

**REGISTRATION FEE: \$175.00**

**\$200.00** if registration is **received** after 12/4/08.

MAIL OR FAX THE COMPLETED FORM TO:

**OPERATOR TRAINING COMMITTEE OF OHIO, INC.**

3972 Indianola Avenue \* Columbus, OH 43214

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