



Troubleshooting Activated Sludge Operations

May 15, 2020
Halifax, NS

Troubleshooting Activated Sludge Operations

Pre-requisite – Must attend or have attended the 2 day Activated Sludge Course

Troubleshooting Activated Sludge

- Floc Formation Problems – pin floc, straggler floc, dispersed growth
- Slime Bulking and Foaming – causes, cures
- Rising sludge/Denitrification
- Foaming
- Filamentous problems – symptoms, causes, cures (short-term/long term)

Selectors and Step Feed

- Advantages and disadvantages of using
- Evaluating performance

Microscopic Evaluation of Activated Sludge

- Floc Formation
- Protozoa Identification
- Filament Identification Techniques

Operating Secondary Clarifiers

- Controlling blankets and inventory
- Clarifier State Point Analysis

Developing Troubleshooting Charts

- High Sludge Blankets
- High SVI
- High Effluent TSS

Question & Answers, Discussion of Problems

PRESENTER:

Rick Marshall specializes in start-up, optimizing, and troubleshooting of wastewater and water treatment facilities, along with work in producing O & M manuals, troubleshooting guides, SOPs and other technical documents. He has over 35 years of experience in industrial (Pulp & Paper, various types of food processing, chemical, refinery) and municipal treatment systems. He has dealt with a variety of operating problems ranging from sludge settling problems, floc formation problems, biomass toxicity, effluent toxicity, foaming and floating sludge problems.

COURSE LOCATION:

Halifax Water 455 Cowie Hill
Halifax, NS

CONTACT INFORMATION:

Registration can be made by faxing or mailing the registration form on the reverse of this page. For further information, Clara Shea at 902-434-8874.

Please print clearly and fax or mail to the address listed on the bottom of this form.

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Name: _____

Organization: _____

Mailing Address: _____

City, Province: _____ Postal Code: _____

Phone: _____ Fax: _____ Email: _____

Invoices will be sent to the address listed above.

PO number to be included on the invoice _____

Payment can be made by Visa, Master Card or cheque.

Card Holder's
Name _____

Credit Card Number _____ Expiry _____

Signature _____

Email address for credit card receipt _____

Payment can be made by cheque and is due prior to workshop date.

Members \$315.00 plus HST 15% = \$362.25

Non-Members \$325.00 plus HST 15% = \$373.75

Lunch is on your own!

**Cheques should be made payable to:
MPWWA
C/O Clara Shea, Executive Secretary
PO Box 28142 Dartmouth, NS B2W 6E2
Phone 902-434-8874 Fax 902-434-8859**