



Nutrients and Nutrient Analysis in Wastewater Treatment

An estimated 65% of US rivers and coastal water bodies are affected by excessive nutrient inputs. Nitrogen and phosphorous are the two main nutrients contributing to the increase, resulting in algal blooms, reduced oxygen levels and fish kills. This course is open to attendees monitoring nitrogen and phosphorous compounds in wastewater – for both process control and NPDES requirements. Nitrogen compounds (ammonia, nitrate, total nitrogen), phosphate and total phosphorous will be analyzed via laboratory analysis.

October 22, 2019

Time: 8:30 am to 12:30 pm

Richard Alden Training Center
Nippnapp Trail
Millbury, MA



Learner Outcomes:

- Understand the fundamentals of monitoring nitrogen and phosphorous compounds in wastewater
 - Hands on laboratory activities
- Level: Beginner to Intermediate; working knowledge of subject**

Cost - \$150

4 TCHs will be awarded to those who attend

Registration 8:00 am
Seating limited to 26



Hands On: Nothing gives you more confidence in your water analysis technique than experiencing the process with hands-on experience learning



Relevant: After a Hach training, you will come away with skills and knowledge that is relevant to your job duties while maintaining your professional licenses.



Experienced: Only with Hach Training will you benefit from Hach's knowledgeable and experienced trainers with insight into emerging trends and tech-

Course: Nutrients and Nutrient Analysis in Wastewater Treatment

Attendee: _____

Business/Facility: _____

Address: _____

City, State, Zip: _____

Phone: () _____ E-mail: _____

Payment: \$ _____ Course Cost : \$150.00

MWPCA Membership #: _____

MWWA Membership #: _____

Credit Card Payment ? Fill out form on page 2 please

PO Number _____

Registration: Send check or cc payment to MWPCA for full amount at least 7 days prior to training date. Seating is limited, register early.

Send forms to: MWPCA, PO Box 561, Monson, MA 01057 or Fax: 774-670-9956 (checks payable to MWPCA)

Confirmations: Will be emailed

Questions: Mickey Nowak at 774-276-9722

Richard Alden Training Center, Millbury MA

DIRECTIONS:

The Richard Alden Training Center is located in Millbury, MA on Route 20 approximately 1/4 mile West from the intersection of Routes 20 and 146. The facility is located on the grounds of the Upper Blackstone Water Pollution Abatement District (UBWPAD).

From the MA Pike Exit 10A:

1. Go left at first set of lights.
2. Go straight at the next set of lights.
3. Left at next set of lights on to Route 20 west.
4. Right on the next set of lights on to Nippnapp Trail.
5. Take the first right off Nippnapp Trail
6. Trainees should park in the lot outside of the entrance gate..
7. Walk through the gate and proceed straight ahead to the Alden Training Center (Blue / Brick Building).

From Rte 146 North or South:

1. Take Route 20 west.
2. Right on the set of lights at Nippnapp Trail.
3. Take the first right off Nippnapp Trail
4. Trainees should park in the lot outside of the entrance gate..
5. Walk through the gate and proceed straight ahead to the Alden Training Center (Blue / Brick Building).

**Using a GPS device? enter the address
7 Nippnapp Trail, Worcester, MA.**

After turning into the entrance of the plant from Nippnapp Trail, the Training Center parking lot will be your first left before the security gate. There is a pedestrian walkway out of the parking lot leading to the Training Center.



Paying with a Credit Card?

Card Number _____

Expiration (MM/YY) _____

CCV Number _____

Billing Address Zip Code _____