



HACH WASTEWATER CLASSES



PRESENTED BY CALIFORNIA RURAL WATER ASSOCIATION

2010 CLASS SCHEDULE

California Rural Water Association (CRWA) and the Hach Company are coordinating a series of comprehensive hands-on wastewater classes. Sign-in is 8:00 am - 8:30 am, class time is 8:30 am - 3:30 pm, lunch (on your own) is 12:00 pm - 1:00 pm.

Get connected to a great resource for your system! CRWA is a 501c(6) non-profit organization dedicated to serving California's small water and wastewater organizations. For information on becoming a CRWA member, call 800-833-0322 or visit our website at www.calruralwater.org. Get connected to a great resource for your system! For more information on this class and other training classes, call our office or visit our website: www.calruralwater.org.

Day 1: Introduction to Wastewater Testing

6 CWEA Wastewater Contact Hours

This workshop will introduce some of the tests and methods commonly used in wastewater analysis. Topics will include total suspended solids, dissolved oxygen – including COD and BOD, alkalinity and pH, as well as disinfection testing. Techniques covered in the course include calibration (where applicable), sample measurement, and method verification. Course objectives will be met by presenting theory, practical applications of analytical techniques, and hands-on testing.

Day 2: Nutrient Analysis & Control

6 CWEA Wastewater Contact Hours

This class will give an overview of the importance of nutrient monitoring and removal in wastewater. Nitrogen compounds (ammonia, nitrate, and total nitrogen), phosphate and total phosphorous will be analyzed in class. Attendees will also examine the role of DO, pH and alkalinity in efficient wastewater treatment practices. Various hands-on analytical techniques will include colorimetry, electrochemistry, and titrations.

Day 3: Process Control for Wastewater

6 CWEA Wastewater Contact Hours

This class will focus on the many on-line process instruments commonly used in wastewater treatment. Topics will include pH, dissolved oxygen, on-line chlorine analysis, and suspended solids. Calibration, maintenance, and performance verification using hand-held instruments is also covered. Attendees will have the opportunity to use the newest technologies in a hands-on environment.

Registration Form

Please mark which days you will attend:

| | <u>DAY 1</u> | <u>DAY 2</u> | <u>DAY 3</u> |
|----------------|--------------|--------------|--------------|
| BAKERSFIELD | ___ June 15 | ___ June 16 | ___ June 17 |
| SACRAMENTO | ___ July 27 | ___ July 28 | ___ July 29 |
| SALINAS | ___ Aug 10 | ___ Aug 11 | ___ Aug 12 |
| SAN BERNARDINO | ___ Sept 28 | ___ Sept 29 | ___ Sept 30 |

Attendee Name: _____

System or Company Name: _____

System or Company Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ FAX: _____ Email: _____

CRWA Member (\$125 per day) Non-Member (\$175 per day) Payment Total: \$ _____

Check to follow in mail (payable to CRWA) Credit Card (please print info below)

Credit Card #: _____ Expiration Date: _____

Authorized Signature: _____

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We will send a confirmation letter and map within 2 weeks of class date. Cancellations must be received at the CRWA office in writing at least 3 days prior to the event in order to receive a refund. A processing fee of \$25 per student will be deducted from all refunds. Please let us know if any registrant requires special accommodations for disabilities. Questions? Call 800-833-0322.

**To register, please fax this form to 916-553-4904
or mail to CRWA, 4125 Northgate Blvd, Sacramento, CA 95834.**

Opt-out: If you wish to be taken off our distribution list, please call 800-833-0322 or email rwhipple@calruralwater.org. Thanks!