



Accurate NEWS

ENVIRONMENTAL SERVICES

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Inside Accurate News

Accurate Environmental Services Retainer Program	page 2
AETC Distribution & Collection Classes	page 3
New Accurate E-Newsletter	page 3
AETC Receives OWPCA Award	page 3
Accurate Lab Supplies - ALS	page 3

Use Treatability Studies to find solutions to produce the best water

If your water system is not achieving the required reduction of disinfection by-products, there are several possible ways to bring your system into compliance. This includes addition of oxidants, new process units, or even process operational changes. Some systems use hydrogen peroxide, potassium permanganate, or sodium permanganate as a preoxidant. There is process equipment available for on-site generation of chlorine dioxide and ozone, and organics can be removed using properly sized membrane filtration systems. Granular activated carbon is also used to adsorb organic compounds. Process operation changes can include changing polymers to increase settling or reducing chlorine usage in the plant and using chlorine booster stations in the distribution system. So, which is best for your drinking water system, both in water quality and costs? It is recommended that you conduct treatability and/or pilot testing of new systems before committing to a full-scale process change in your facility.

Bench Scale Treatability Test. Testing new treatment processes or chemicals using jar tests or scaled models in a laboratory allows you to quickly consider several options at a relatively low cost. The treatability test, conducted on samples of your source water, can determine the reduction of TOC, and the full potential for formation of TTHM and HAA5, as well as any other water quality parameters of concern. The treatability test can be used to determine the optimum dosages that can be expected.

Pilot Testing Treatability Test. In many cases, it is wise to conduct pilot testing on process equipment being considered for use in your drinking water treatment plant. The pilot unit is operated for a few weeks or even months on the actual water at the location in your plant where it is proposed to be installed. Samples should be taken of the source water, existing finished water, and after the pilot unit under several different conditions that it will be expected to operate. This information is useful to demonstrate the performance of the equipment and help the engineer determine the full size and capacity of the equipment that will be needed.

Plant Performance Evaluation. A study based on an existing plant in which each process is evaluated is called a plant performance evaluation. This study is used to determine the capacity and performance of each component of the treatment process and the water quality at each step in the process. There are times when a treatment plant needs to be replaced, but sometimes it is just one process that needs to be improved in order to produce more water or better quality water. This type of study can help point out just what you need to do to increase quality water production and sales.

Treatability Studies for Municipal and Industrial Wastewater. Treatability studies are very useful in wastewater treatment systems, especially if it involves new sources of wastewater from proposed industries or commercial businesses. A treatability study can be used to determine if the discharge of certain waste streams will harm a municipal wastewater treatment plant from either organic or solids overloading, or from toxicity that can kill the biological treatment process. A bench scale treatability study is recommended that uses samples of a municipality's typical influent wastewater, biological process water, and a sample of the proposed industrial waste stream.

Accurate Environmental has the experience, technical knowledge, and analytical equipment necessary to provide you or your engineer with the treatability study and water quality analysis necessary to make informed decisions about making changes to your process to produce good quality water that meets the regulations.



AETC Classes Are Now In Oklahoma City. Check Out the AETC Class Schedule on AETC Web Site

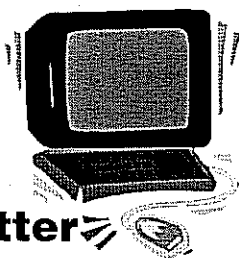


www.accuratetraining.com

AETC Distribution & Collection Classes

Accurate Environmental Training Center (AETC) Distribution & Collection Classes begin in January at all three AETC locations—Stillwater, Tulsa and Oklahoma City. These classes pertain to those operators employed only in Line Maintenance (Distribution & Collection). Tuition is \$95 per day per operator. There is a 24-hour, Class "C" Certification and an 8-hour, Class "D" Certification. Call Clarke Hodson at 1-800-516-5227 for registration and further information.

New Accurate E-Newsletter



Accurate, Inc. has a new E-Newsletter in production. You will find the same valuable information as you would in our regular newsletter, but you get it by e-mail. If you would like to begin receiving these E-News Publications, please notify Clarke Hodson by phone at 1-800-516-5227, or by e-mail at clarke-atc@accuratelabs.com. We hope to hear from you soon.

AETC Receives OWPCA Award

Accurate Environmental Training Center (AETC) received the "Outstanding Training Center of the Year" award from the Oklahoma Water and Pollution Control Association (OWPCA) during the 2004 OWPCA Awards Banquet on 29 September 2004. The award was the first time it was issued by OWPCA.

Accurate Environmental Training Center is very proud to receive this esteemed award. Since January 1998, AETC staff and instructors have done an outstanding job in the classroom and preparation for the certification classes by providing excellent curriculum and teaching methods to prepare their students and clients to successfully pass the Oklahoma Department of Environmental Quality (ODEQ) Certification Examinations and for the students and clients to perform well in their own facilities. AETC also uses the most recent technology in their classroom presentations. This combination has contributed to making Accurate Environmental Training Center the "Outstanding Training Center" in the State of Oklahoma.

AETC would like to extend their thanks and appreciation to the OWPCA for awarding the "Outstanding Training Center of the Year" award to Accurate Environmental Training Center.

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Accurate Lab Supplies - ALS

We at Accurate Lab Supplies want to thank you for your past, present and future business. In order to show our appreciation, Accurate Lab Supplies is having a special on the

ORION 420A Benchtop pH/mV/ORP/ ORP/ Temperature Meter by Thermo Electron

Accurate Lab Supplies is the **only** Distributor for Hach and is your source for lab supplies from Fisher, VWR, Thomas, and many, many more. These relationships allow us to continue to offer the service, price, and quality you expect. We look forward to taking care of your laboratory needs in the coming year. ALS hopes you have a safe and happy New Year.

Josh Fielstra
ALS



Accurate Environmental Services Retainer Program

Accurate Environmental Services (AES) is offering technical assistance to municipalities and rural water systems through our Retainer Program. The **goal** of this program is to assist operators and superintendents with day-to-day operational elements, resolve problems, track results and remain in compliance with state and federal regulations.

Basic Plan

At a minimum, the following services will be provided under the Basic Plan:

- Track, analyze and technically review your analytical results
- Follow analytical trends to predict and avoid future problems
- Help resolve operational difficulties to avoid Notices of Violations
- Respond to ODEQ notices when assistance is needed
- Work with ODEQ to quickly resolve environmental issues
- Calculate loadings, averages and prepare your DMR forms
- Assist in the timely submittal of unpermitted discharge report forms
- Help interpret rules and regulations and their impact on your facility
- In general, be available to quickly address plant issues when requested

Expanded Plan

The Expanded Plan includes the entire Basic Plan in addition to a half-day site visit (travel time included) each month. A site visit enables us to do a more thorough plant evaluation and more accurately assess your current condition.

No contract or long term commitment is required and you can discontinue this service at anytime without penalty, if you desire. Why not give us a try? We offer the most cost effective solution to your current and future operational problems.

The Basic Plan is \$250.00 per month and the Expanded Plan is \$500.00 per month. Both plans are available for water and wastewater facilities. If you decide to go with the Basic Plan, facility visits can be added for just \$250.00 per visit. You decide how often these are necessary.

At this low monthly rate, every water and wastewater system in the state can now afford to receive technical assistance.

In the long run, we will be able to save you much more than the cost of the program. For less than \$10.00 a day you can have the peace of mind knowing your are being supported by the most knowledgeable staff of water and wastewater professionals in the state. Together we can solve your current problems in an economical manner and save your system additional money by preventing future problems. Under this program you are just one phone call away from help.

Accurate Environmental Training Center

STILLWATER Classes

January

- 03** Class "D" Distribution & Collection
- 04 - 06** Class "C" Distribution & Collection
- 18 - 20** Class "C" Water Operator

February

- 07 - 10** Class "A/B" Wastewater Operator
- 15 - 17** Class "C" Wastewater Operator
- 22 - 24** Class "D" W & WW Operator
- 28** Class "D" Distribution & Collection

March

- 01 - 03** Class "C" Distribution & Collection
- 14 - 17** Class "C" Water Laboratory
- 21 - 24** Class "B" Water Laboratory
- 21 - 25** Class "A" Water Laboratory
- 28 - 31** Class "B" Wastewater Laboratory
- 28 - 01** Class "A" Wastewater Laboratory

TULSA Classes

January

- 11 - 13** Class "D" W & WW Operator
- 25 - 27** Class "C" Water Operator
- 31** Class "D" Distribution & Collection

February

- 01 - 03** Class "D" W & WW Operator
- 07 - 10** Class "C" Wastewater Laboratory

March

- 08 - 10** Class "D" W & WW Operator
- 15 - 17** Class "C" Wastewater Operator

OKLAHOMA CITY Classes

January

- 11 - 13** Class "D" W & WW Operator
- 25 - 27** Class "C" Wastewater Operator
- 31** Class "D" Distribution & Collection

February

- 01 - 03** Class "C" Distribution & Collection
- 07 - 10** Class "C" Water Laboratory

March

- 08 - 10** Class "D" W & WW Operator
- 15 - 17** Class "C" Water Operator



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www.accurateenvironmental.net



Accurate Environmental Labs

Accurate Environmental Labs is an NELAP certified environmental laboratory primarily serving municipal and industrial clients in Kansas, Oklahoma, Texas, Arkansas and Louisiana. We provide analytical support for projects involving wastewater, drinking water, ground water, soil, sediment and sludge. In addition, we offer complete field sampling services. We maintain certifications in Oklahoma, Arkansas and Kansas for wastewater and hazardous waste analysis. Accurate Labs is the only commercial lab in Oklahoma fully certified for drinking water analysis.



Accurate Field Services

Accurate Field Services provides Field Services and Sampling Pick-Up Routes out of Stillwater, Tulsa and Oklahoma City Field Offices. We have routes that extend through out the state of Oklahoma and into southern Kansas, southwest Missouri and northwest Arkansas.



Accurate Environmental Training Center (AETC)

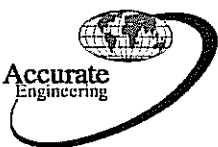
Accurate Environmental Training Center provides ODEQ State Certification Classes and Training for the Water and Wastewater Treatment Facility Operators, Laboratory Technicians, Distribution and Collection Operators and Technicians, Industry and Pretreatment Personnel, Rural Water Districts, Indian Tribes, State Parks, Public and Private Camp Grounds, Mobile Home Parks, and Construction and Contract Personnel.



Accurate Laboratory Supply (ALS)

Accurate Laboratory Services provides basic laboratory supplies needed by most water and wastewater treatment plant and laboratory facilities, industries, and educational facilities, or any other facility in the Oklahoma, Arkansas and Kansas region. Our pricing is very competitive, but the **real value** of ALS is the **service and convenience** we provide. ALS is prepared to help our customers set up and design a lab from scratch if necessary. Another benefit of ALS is free delivery of supplies along our routine weekly routes. For those not serviced by one of our routes, we will use a courier for delivery and charge a small fee.

Accurate Laboratory Services is an **Authorized HACH Regional Distributor** in the state of Kansas, Oklahoma and Arkansas.



Accurate Environmental Services (AES)

Accurate Environmental Services provides environmental technical services related to municipal and industrial water, wastewater, solid wastes and biosolids, industrial pretreatment and environmental site assessments.