

Accurate NEWS



ENVIRONMENTAL SERVICES

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



www.accuratetraining.com

New Disinfection Byproduct Regulations Start

The EPA has finalized new National Primary Drinking Water Regulations (NPDWRs) for disinfection byproducts and has already put them into effect as of December 2003. The new NPDWRs will now encompass small surface and ground water systems serving populations of less than 10,000 that were previously unregulated by disinfection byproduct regulations. Many studies have been done that show these disinfection byproducts can cause cancer and reproductive problems in laboratory animals. Although some studies have been, none of them have proven a link between disinfection byproducts and cancer in humans, but there is an apparent relationship between some cancers and exposure to chlorinated water. Even without a direct link, disinfection byproducts are a potential health concern, and the EPA feels that they need to be regulated in finished drinking water. The EPA expects these new regulations will help protect millions of additional endpoints for drinking water distribution that were previously not covered by these regulations.

The new NPDWRs for disinfection byproducts are for two groups of organic compounds (HAAs and THMs), and two inorganic compounds (chlorite and bromate). Trihalomethanes (THMs) and Haloacetic Acids (HAAs) are a group of organic compounds that are formed when disinfectants, such as chlorine, react with organic matter in drinking water. The new regulations will lower the maximum allowable total trihalomethane (TTHM) concentration from the previous regulation of 100 ug/L or 100 parts per billion, to the new annual average of 80 ug/L. The new regulations will set the maximum allowable total haloacetic acid (HAA5) annual average at 60ug/L. Bromate and chlorite are inorganic disinfection byproducts that will also be affected by the new NPDWRs. Bromate is a compound that is formed as a byproduct of ozone disinfection reacting with the naturally occurring bromide in the source water. The new regulations will set the maximum allowable annual average at 10 ug/L. Chlorite is a compound that is formed as a byproduct of chlorine dioxide disinfection and the new regulations will set the maximum allowable monthly average at 1 ug/L. Accurate Labs currently analyzes for all of these disinfection byproducts. If your system is having problems passing these new regulations, Accurate Engineering Services can give an unbiased expert evaluation of your water system and how to improve it. If you have any questions, please feel free to contact Accurate Environmental at (405) 372-5300.

Danny Chance, Organics Manager

ACCURATE NEEDS YOUR HELP!!!

It is imperative that you include your PWS # and proper location codes with any drinking water compliance work, be it Nitrates to TOC. For Disinfection By-Products (DBP), use DBPMX (MAX residence time), if your system requires 1 sample per sampling event. If your system requires 4 samples per sampling event, then your locations are DBPMX, DBP01, DBP02, DBP02 & DBP03. These Location Codes must stay consistent thought the DBP Program. Also your location codes for Lead & Copper will start with "LC." All of this information can be found at

<http://sdwis.deq.state.ok.us/>. Please submit the proper location codes with your sample information to assure your system doesn't receive an NOV which may have to be addressed in a CCR.

Kenneth Crawford, QA/QC Manager



Accurate Environmental Training Center

STILLWATER Classes

July

13 - 15 Class "D" W & WW Operator

August

03 - 05 Class "D" W & WW Operator
10 - 12 Class "C" Wastewater Operator
16 - 19 Class "C" Water Laboratory
23 - 26 Class "A/B" Water Operator

September

31 - 02 Class "D" W & WW Operator
20 - 23 Class "A/B" Wastewater Operator

TULSA Classes

July

13 - 15 Class "C" Wastewater Operator
19 - 22 Class "C" Wastewater Laboratory
27 - 29 Class "D" W & WW Operator

August

03 - 05 Class "C" Water Operator
17 - 19 Class "D" W & WW Operator

September

31 - 02 Class "C" Wastewater Operator
07 - 09 Class "D" W & WW Operator
13 - 16 Class "C" Water Lab

OKLAHOMA CITY Classes

July

06 - 08 Class "D" W & WW Operator
20 - 22 Class "C" Water Operator
27 - 29 Class "C" Wastewater Operator

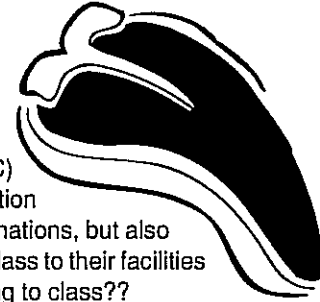
August

10 - 12 Class "D" W & WW Operator

September

07 - 09 Class "C" Water Operator
14 - 16 Class "D" W & WW Operator

Training Hours with "Meat"



Accurate Environmental Training Classes (AETC) provides the operators with substantial information to not only pass their ODEQ Certification Examinations, but also to utilize and apply the information they learn in class to their facilities back home. Is that not the main reason for going to class??

So, when you decide on enrolling in a class, either for a four-hour renewal or for certification, look into which class(s) will give you the most "meat" for the money.

Another reason why you want a class with a lot of "meat" to it is when you step up for your "A" and/or "B" Examinations, you want to be the best prepared you can be. If you have taken your 100 to 300 hours of "empty" training hours, you will be lost when it comes time to take the examinations. We hope you realize that it is physically impossible to provide the 100 - 300 hours of training you need for the "A" and/or "B" Examinations in the regular three to four day classes.

So, look for the classes that provide the most "meat" for the money. Look for Accurate Environmental Training Center Classes.

AETC Certification Classes In OKC Permanently

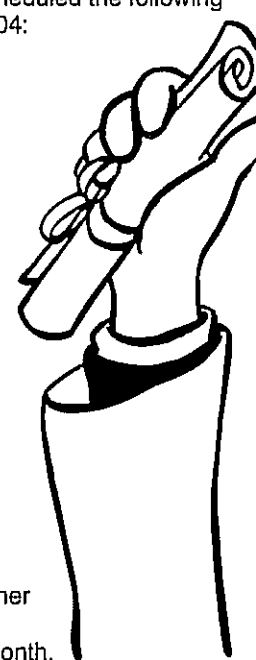
AETC Certification Classes have done so well in OKC that AETC has put them on our permanent schedule. AETC currently scheduled the following classes in the OKC Classroom through December 2004:

- Class "D" W & WW Operator
- Class "C" W & WW Operator
- Class "C" W & WW Lab

Beginning in January 2005, we anticipate the OKC class schedule will have the following classes:

- Class "D" Distribution & Collection*
- Class "C" Distribution & Collection*
- Class "D" W & WW Operator*
- Class "C" W & WW Laboratory

*These classes will alternate with each other every other month, with the Distribution & Collection Classes one month and the Class "D" Operator Classes the next month.



3rd Quarter THM & HAA Testing

The Stage 1 Disinfectants and Disinfection Byproducts (DBP) Rule will expand required sampling this summer to surface water systems serving less than 500 and ground water systems serving less than 10,000. These smaller systems were originally directed to monitor only during the month of the warmest water temperature, when DBP formation potential is greatest. However, due to the large number of systems requiring testing, drinking water systems in Oklahoma have been allowed to sample throughout the 3rd quarter (July, August, and September).

Accurate Labs is ODEQ certified to test the parameters required by the DBP rule: trihalomethanes (THM), haloacetic acids (HAA), total organic carbon (TOC), and SUVA. If you are interested in using Accurate for DBP testing or have questions regarding DBP sampling, please contact us. Vernon Seaman is coordinating sampling for the northeast part of the state out of the Tulsa lab. David Splinter is serving the western and southern parts of the state out of the Oklahoma City lab. You may reach Vernon at 918-663-5400 or David Splinter at 405-663-5400.

About 50% of large drinking water systems had some type of DBP Rule non-compliance in 2002. Many small systems are expected to face similar results. Current and proposed treatment options may be evaluated with treatability studies, which simulate a specific process and measure its effectiveness. These studies help identify operational changes that will bring a system back into compliance. **Accurate Environmental Services** group would be happy to investigate your system's treatment options. To find out more about treatability studies, or if you have questions regarding system evaluation, contact David Kincannon at 405-372-5300.

The Stage 1 Disinfectants and Disinfection Byproducts Rule - 3rd Quarter 2004

During the third quarter of 2004, groundwater systems serving less than 10,000 people must monitor for TTHM and HAA5 once per treatment plant in the month of the warmest water temperature. That month can be July, August, or September. Each groundwater source for a system is considered a "treatment plant", although there may be several wells that draw from the same aquifer or groundwater source.

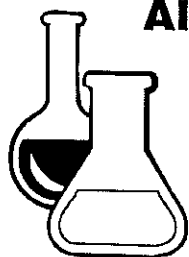
Water samples are to be collected at the point in the distribution system of the maximum residence time. That should be the location at which the contact between the disinfectant and any natural organic matter in the water would be the greatest and should represent the highest concentrations of disinfection byproducts in the system.

The Stage 1 DBPR applies to all public water systems that add a disinfectant to the drinking water during any part of the treatment process.

Surface water systems and ground water systems under the direct influence of surface water serving **10,000 or more** people were required to comply with the requirements by **January 1, 2002**. All other water systems that disinfect were to comply with the requirements by **January 1, 2004**.

The Stage 1 DBPR sets MCL limits on total trihalomethanes (TTHM < 0.080 mg/l) and Five haloacetic acids (HAA5 < 0.060 mg/l). Also, the maximum residual disinfectant levels (MRDL) for chlorine and chloramines is 4.0 mg/l measured as free chlorine.

Accurate Environmental can provide all of the analytical testing required to meet the requirements of the Stage 1 DBPR. If your system has difficulty meeting the requirements of the rule, contact Accurate Environmental Services and we can provide technical assistance, plant performance evaluation, and treatability studies to determine solutions to meet these rules.



Alcohols and Glycols

Accurate Labs is now testing for alcohols and glycols in water by EPA Method 8015b. We have had many requests for testing of alcohols and glycols. We have now completed our initial studies and are ready to start accepting samples for analysis. Our current compound list is as follows: acetone, 2-butanone, 4-methyl-2-pentanone, methanol, ethanol, 2-propanol, ethylene glycol, propylene glycol. If you have any questions or comments please contact Danny Chance.

Metals Department News

Accurate Environmental is excited to announce the arrival of a new addition to the metals department. Our new ICP-MS is a state-of-the-art instrument that allows us to analyze metals with the lowest detection limits in the industry. It is a multi-elemental analyzer, so we can run all heavy metals including your drinking water Lead and Copper simultaneously with detection limits in the ppt (parts per trillion) range. We can also serve all of your wastewater analytical needs with the lowest detection limits possible. Our ICP-MS is applicable for analyzing samples by EPA Method 200.8 for drinking water and wastewater and by EPA Method 6020 for hazardous waste. If you have any questions, don't hesitate to give us a call.



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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)

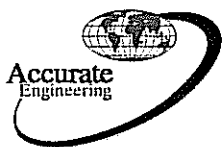
Accurate Environmental Training Center provides ODEQ State Certification Classes and Training for the Water and Wastewater Treatment Facility Operators, Laboratory Technicians, Distribution and Collection Operators and Technicians, Industry and Pretreatment Personnel, Rural Water Districts, Indian Tribes, 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.