

Accurate NEWS



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**AETC
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www.accuratetraining.com

The Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR)

EPA proposed the LT2ESWTR in the Federal Register on August 11, 2003. This rule is part of a series of rules in the Microbial Disinfectants/Disinfection Byproducts Cluster, (M-DBP Cluster), which is intended to improve control of microbial pathogens with minimizing public health risks of Disinfectants and Disinfection Byproducts (DBPs). The LT2ESWTR, Interim Enhanced Surface Water Treatment Rules (IESWTR), or the Long Term Enhanced Surface Water Treatment Rules (LT1ESWTR); instead, it builds upon these requirements. Key provisions of the LT2ESWTR include:

- Source water monitoring for Cryptosporidium, with reduced monitoring requirements for small systems.
- Additional Cryptosporidium treatment techniques for filtered systems based on source water Cryptosporidium concentrations.
- Inactivation of Cryptosporidium for all unfiltered systems.
- Disinfection profiling and benchmarking to assure continued levels of microbial protection while PWSs take the necessary steps to comply with new DBP standards.
- Covering, treating, or implementing a risk management plan for uncovered finished water reservoirs.

EPA believes that implementations of LT2ESWTR will significantly reduce level of Cryptosporidium in finished drinking water. This will substantially lower rate of endemic cryptosporidiosis, the illness caused by Cryptosporidium, which can be severe and sometimes fatal in sensitive sub-populations (e.g., infants, immune suppressed patients, elderly). In addition, the Treatment Technique (TT) requirements of this proposal are expected to increase the level of protection from exposure to other microbial pathogens (e.g., Giardia).

The LT2ESWTR has been proposed concurrently with Stage 2 Disinfectants and Disinfection Byproducts Rules (Stage 2 DBPR), which addresses reducing peak and average levels of Disinfection Byproducts in drinking water supplies. The Stage 2 DBPR was proposed as a separate rule on August 18, 2003.

History of Drinking Water Regulations

1974, EPA created National Interim Primary Drinking Water Regulations (NIPDWR)

1979, the first interim standard addressing DBPs was set for Total Trihalomethanes (TTHM)

1986, Maximum Concentration Level Goals (MCLGs), and Maximum Contaminant Levels (MCLs) for 83 named contaminants was set up by EPA.

In 1989, EPA issued two important National Primary Drinking Water Regulations (NPDWR): Total Coliform Rules (TCR) and SWTR.



The TTHM rule of 1979 set a TTHM standard for CWSs serving 10,000 or more people. The stage 1 Disinfectants and Disinfection Byproducts Rules (Stage 1 DBPR) built on the TTHM Rules by lowering existing MCLs and widening the range of affected systems include all PWSs (except most transient systems) that add a disinfectant. The Stage 1 DBPR established new MCLs for chlorite, bromate, and haloacetic acids (HAA5) as well as established Maximum Residual Disinfection Levels (MRDLs) for the disinfectants chlorine, chloramines, chlorine dioxide, and Ozone. In the Stage 1 DBPR requires conventional filtration systems to remove specified percentages of organic materials, measured as Total Organic Carbon (TOC), that may react with disinfections to form DBPs.

The Stage 2 DBPR builds upon the Stage 1 DBPR by providing more consistent from DBPs across the entire distribution system and by focusing on the reduction of DBP peaks. The Stage 2 DBPR changes the way sampling results are averaged to determine compliance. The determination for the Stage 2 DBPR is based on a Locational Running Annual Average (LRAA)(i.e., compliance must be met at each monitoring location) instead of the system-wide running average (RAA) used under the Stage 1 DBPR. In addition to changes in MCL compliance calculation, systems must also conduct an Initial Distribution System Evaluation (IDSE) to identify compliance monitoring locations that represent high TTHM and HAA5 levels. Systems are also required to conduct a significant excursion evaluation if they have DBP levels that are significantly higher than the MCL.



AETC Enrollments, Payments and ODEQ Exam Applications Policies

AETC requests that enrollments be made at least two weeks prior the first day of class and cancellations made no later than the Wednesday before the first day of class. AETC understands last minute emergencies due arise reflecting a late enrollment or cancellation, but a simple phone call, even if it the morning of class is greatly appreciated. Class changes between the first day of class and the Wednesday prior may reflect a surcharge in the tuition.

Prepaying your tuition will secure your enrollments and assist in reducing any confusion and penalties. Payment can be made with Cash, Check, Credit Cards, Traveler Checks and PO Numbers.

ODEQ requires that ALL Exam Applications are submitted a minimum of three (3) weeks prior the exam date, written or by computer. If you do not have your ODEQ Exam Application turned in BEFORE you come to class, you will not be eligible to take the examination that week. Please bring your ODEQ Exam approval to the AETC Classes to verify you are eligible to take the examinations.

Accurate Environmental Training Center

STILLWATER Classes

October

- 18 - 21** Class "B" Wastewater Laboratory
- 18 - 22** Class "A" Wastewater Laboratory
- 25 - 28** Class "B" Water Laboratory
- 25 - 29** Class "A" Water Laboratory

November

- 02 - 04** Class "D" W & WW Operator

December

- 30 - 02** Class "D" W & WW Operator
- 06 - 09** Class "C" Water Laboratory

TULSA Classes

October

- 12 - 14** Class "C" Water Operator
- 19 - 21** Class "D" W & WW Operator

November

- 02 - 04** Class "C" Wastewater Operator
- 08 - 11** Class "C" wastewater Laboratory
- 16 - 18** Class "D" W & WW Operator

December

- 30 - 02** Class "C" Water Operator
- 14 - 16** Class "D" W & WW Operator

OKLAHOMA CITY Classes

October

- 06 - 07** Class "D" W & WW Operator
- 11 - 14** Class "C" Wastewater Laboratory

November

- 09 - 11** Class "C" Water Operator
- 16 - 18** Class "D" W & WW Operator

December

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

AETC Sponsors Distribution & Collection Classes

Accurate Environmental Training Center is sponsoring the **Class "D" Technician & "C" Operator Distribution & Collection Certification Classes**, beginning January 2005, at all three locations – Stillwater, Tulsa and Oklahoma City. These classes will alternate each month with the Class "D" Water & Wastewater Operator Classes at each location.

There will be a one-day, eight-hour, **Class**

"D" Distribution & Collection Technician Class held on Monday followed by the three-day, twenty-four hour, **Class "C" Distribution & Collection Operator Class** held on Tuesday through Thursday.

The **Class "D" Technician Classes** will cover the first six chapters of the State ODEQ Distribution & Collection Manuals. The Class "D" Technicians will then take a fifty question Examination. The Class "D" Technician is an entry-level class which requires eight-hours of training and "0" Years of experience.

The **Class "C" Operator Classes** will cover the same six chapters in the state ODEQ Distribution & Collection Manuals, plus additional six chapters of information. The Class "C" Operators will then take a 100-question examination. The Class "C" Operator License requires 36-hours of accumulative training and one year of experience.

EPA Wants You to Know Your Protozoans!!!!

Cryptosporidium is a protozoan—a slightly more complex type of organism than a bacterium or virus. It can live in the intestines of humans or animals. Of the six known species of *Cryptosporidium* (Oocysts), *Cryptosporidium parvum* is thought to pose the greatest threat of human infection. Oocysts can survive chlorine treatment, which means that *Cryptosporidium* resists conventional disinfection methods. The water must be filtered in order to remove *Cryptosporidium*. Ingestion of *Cryptosporidium* can cause acute gastrointestinal illness, and health effects in infants & the elderly may be severe, including the risk of death.

EPA is proposing the Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) to reduce disease incidence associated with *Cryptosporidium* and other pathogenic microorganisms in drinking water. The LT2ESWTR will supplement existing regulations by targeting additional *Cryptosporidium* treatment requirements to higher risk systems. Filtered systems will be classified in one of four risk bins based on their monitoring results. LT2ESWTR specifies a range of treatment and management strategies, noted as the "microbial toolbox," that systems may use to meet their additional treatment requirements. Existing drinking water regulations require public water systems that use surface water sources and provide filtration to achieve at least a 99 percent (2-log) removal of *Cryptosporidium*.

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USEPA Guidance Manuals pertaining to the IESWTR:

You can find additional information at the USEPA Safe Drinking Water Hotline at (800) 426-4791 or can be downloaded from the appropriate web site:

Disinfection Profiling and Benchmarking Guidance Manual. (EPA 815-R-99-013). August 1999.

www.epa.gov/safewater/mbdp/mbdptg.html#bench

Guidance Manual for Compliance with the Interim Enhanced Surface Water Treatment Rule: Turbidity Provisions. (EPA 815-R-99-010). April 1999.

www.epa.gov/safewater/mbdp/mbdptg.html#turbidity

Microbial and Disinfection Byproduct Rules Simultaneous Compliance Guidance Manual (EPA 815-R-99-011). August 1999.

www.epa.gov/safewater/mbdp/simult.pdf



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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)

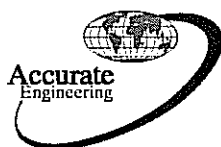
Accurate Environmental Training Center provides ODEQ State Certification Classes and Training for the Water and Wastewater Treatment Facility Operators, Laboratory Technicians, Distribution and Collection Operators and Technicians, Industry and Pretreatment Personnel, Rural Water Districts, Indian Tribes,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