



## ACCURATE NEWS

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Training schedule for next 2 months listed on page 2



**Accurate Environmental**  
Labs & Training Center Offices:

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### TULSA

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### Previous Articles

May: CCR Deadlines  
Apr: Accurate Labs is Expanding  
Mar: Crypto and Giardia  
Feb: Advanced Testing Capabilities  
Jan: Environmental Training at Its Best  
Dec: New Lab Equipment

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[www accuratelabs.com](http://www accuratelabs.com)

## TOXIC ALGAE: Be Aware, Be Prepared!

JUNE 2016

By now, most people are familiar with blue green algae. We've heard about it in the news as it has caused illnesses among swimmers, pets, and livestock, not to mention the problems it creates for drinking water treatment systems. What most people don't realize is that blue green algae is, in fact, a microscopic bacteria called cyanobacteria. Certain species of **blue green algae produce cyanotoxins that can be harmful to humans and animals.** The toxins are released when the cyanobacteria cell walls break down as the bacteria die or when they are broken up by movement of people or animals in the water. Some compounds produced by algae are toxic and potentially very harmful to health, while others are primarily aesthetic concerns for drinking water due to taste and odors they cause in the water.

**Accurate Labs tests for five compounds produced by blue green algae. Three of the compounds for which Accurate Labs can test are toxic and include the following:**

<u>Compound</u>	<u>Analysis Method</u>
<i>Cylindrospermopsin</i>	EPA 545
<i>Anatoxin A</i>	EPA 545
<i>Microcystin-LR</i>	LC/MS/MS (QQQ)

Some of the health effects that have been reported in humans following exposure to cyanotoxins in drinking water include gastroenteritis, liver and kidney damage. Common symptoms of exposure in recreational waters include skin rashes and gastrointestinal distress.

**Two non-toxic compounds produced by algae that Accurate Labs tests for include:**

<u>Compound</u>	<u>Analysis Method</u>
<i>Geosmin</i>	SM 6040
<i>Methyl-Isoborneol (MIB)</i>	SM 6040

These two compounds have been found to be the major contributors to drinking water having an earthy or musty taste and odor. These compounds can be noticed by customers at very low concentrations, and need to be monitored during water treatment to ensure a pleasing final product.

**Accurate Labs uses state-of-the-art instrumentation operated by experienced scientists to provide clients with the highest quality data possible. Samples can be dropped off at any of the three Accurate Labs offices in Oklahoma (Stillwater, Tulsa, and Oklahoma City) or shipped to the lab for analysis. If you are unsure about proper sampling techniques or concerned about personal safety when taking samples, Accurate Environmental's staff of well-trained field service technicians can do the sampling for you and deliver them directly to Accurate Labs.** If you have questions or concerns about algae blooms and would like more information about testing services **contact Danny Chance at Accurate Labs at (800) 516-LABS or email [danny@accuratelabs.com](mailto:danny@accuratelabs.com).**

## STILLWATER CLASSES

### JUNE

02 (PM)	Biological Processes
09 (AM)	Sampling
16 (AM)	Quality Assurance & Quality Control
23 (AM)	Math Refresher
30 (PM)	Sampling

### JULY

08	Open Exam Session #13448
12 – 14	"D" Water & Wastewater Oper
18 – 19	"C" Water Operator
25 – 28	"C" Wastewater Laboratory

## TULSA CLASSES

### JUNE

07 (PM)	Math Refresher
14 (AM/PM)	Sampling
21 (PM)	Biological Processes
28 (AM)	Quality Assurance & Quality Control

### JULY

15	Open Exam Session #13447
20 – 21	"C" Wastewater Operator
26 – 28	"D" Water & Wastewater Oper

For more a more complete class listing or to view class descriptions, register for classes online, or download ODEQ exam applications, visit [www.accuratelabs.com](http://www.accuratelabs.com).

## DON'T FORGET YOUR RENEWAL TRAINING

Don't forget, **you need to attend at least 4 hours of DEQ approved training each year** in order to renew your operator license. That training needs to be done by June 30<sup>th</sup>. **Accurate Training Center offers 4-hr refresher classes every week in June at both training centers in Stillwater and Tulsa.** Classes are scheduled in the mornings and afternoons to help make finding a class that fits your needs, as well as your schedule, much more convenient. The June refresher class **schedule is listed above.** There's not much time left. If you have not completed this year's renewal training, don't wait. Call today to reserve your spot before classes are full. **Contact Jeff Clarke at (800) 516-5227 or email [jeff@accuratelabs.com](mailto:jeff@accuratelabs.com).**

**Questions, comments, or suggestions?** If you have a question or comment about something you've seen in our newsletter, or if you have suggestions about topics you would like to read about in future newsletters we would like to hear from you. Email your comments or suggestions to [jeff@accuratelabs.com](mailto:jeff@accuratelabs.com).

**Accurate Environmental** is one of the nation's most unique and comprehensive environmental service providers. They not only operate the largest commercial environmental lab in Oklahoma and state-of-the-art operator and laboratory training centers, but also provide laboratory supply sales, field and sampling services with weekly sample pick-up routes, as well as environmental and engineering services.

**Accurate Labs** is comprised of three full-service laboratories, including our headquarters in Stillwater and two additional labs in Tulsa and Oklahoma City. They provide analytical services for drinking water, wastewater, groundwater, soil, sediment, sludge, and hazardous waste. Accurate Labs is nationally certified through The NELAC Institute, and the only commercial lab in Oklahoma that is fully certified for drinking water analysis.

**Accurate Environmental Training Center (AETC)** is an award winning training center offering operator and laboratory certification and renewal classes at their classrooms in Stillwater and Tulsa. Using multiple instructors for each class, and various teaching methods, such as pie charts and standard formulas for math, AETC is able to tailor training to meet the needs of each individual student.

**Accurate Laboratory Supplies (ALS)** is an authorized Hach dealer that can save you valuable time and money on all your laboratory supplies, chemicals, and equipment needs with one simple phone call. ALS even offers FREE DELIVERY to clients along their routine sample pick-up routes.

**Accurate Field Services**, with a team of well-trained field service technicians, provides field and sampling services throughout the state for drinking water, wastewater, soil, sludge, and hazardous waste. Accurate Field Services also has weekly sample pick-up routes to provide their clients with a fast, economical, and safer way to get samples to Accurate Labs for analysis.

**Accurate Engineering Services (AES)** provides expert technical assistance related to municipal and industrial water, wastewater, solid wastes and biosolids, industrial pretreatment, and environmental site assessments. AES is here to help your system meet EPA and DEQ rules and regulations, improve operation performance, and reduce operating costs.