

MERRY CHRISTMAS

December 2014 Newsletter

Eastex Environmental Laboratory

Providing superior service and quality analysis for engineering firms, municipalities, school districts, government agencies, industrial facilities and individuals in Southeast Texas since 1986.

If you would like EEL to complete your DMR'S online, please contact Brian Sewell at 1-800-525-0508

Visit our new website at eastexlabs.com

HIGH BOD VS TOXICITY Are the bugs really Dead?

How did you come to this conclusion? Is there a ton of white crisp foam? If you look under the microscope are all the higher life forms dead? Is the floc blown apart and clear, diffuse and weak structures? What is the DO in your system?

In actuality, you may not have a dead system, but you just may have gotten hit with a very high BOD loading and your system is in a young, high growth phase. The higher life forms, or the little critters that are moving around that you see under the microscope are, in reality, just "indicators" of how well your system is and what conditions are going on in your system and early warning of undesirable conditions that have not yet impacted the bacterial population. Look under the microscope—it is a tool that can help not only show exactly what the health of the system is at a given time, but can also help predict

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From all us at Eastex Lab we want to thank you and wish you **Merry Christmas & Happy New Year!**

Mystery Bug of the Month



Can you guess what this is? Hint: Type of Protozoa, can be branched or unbranched, always indicate a medium sludge age

See answer on the back.

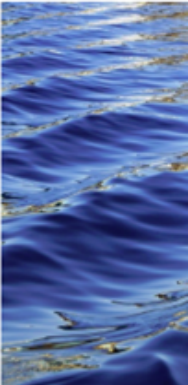
Lead and Copper Testing for 2014

Check your results from anywhere, anytime with



Call Susan today to set up your account or email eastexlab@eastex.net

THE END IS NEAR!
The last round of **Lead and Copper** testing for **2014** is about to close! If you are on the 2014 6M2 list for Lead and Copper analysis for your water system the **deadline** for sample submittal is **December 31, 2014**. As we all know the holidays get hectic and delays happen so submitting before late December is best. If you have not yet submitted samples **call Eastex Environmental Lab** to get a bottle set and/or schedule a pickup or shipment. We handle the process for you from receiving all the way through to ensuring the data is properly submitted with the TCEQ. Don't let submitting these samples late get you nervous. Call us today before the end is here!



To see if you are required to participate go to : https://www.tceq.texas.gov/assets/public/permitting/watersupply/pdw/chemicals/lead_copper/2014_6M2.pdf



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which direction the plant is headed if used daily. It is a tool that can also help prevent critical upsets, or be used as an early warning. In the cases of filamentous problems, staining and identification of the filamentous can help with troubleshooting and help avoid costly chemical consumption.

An overloaded system is quite different from a system with a "Toxic" constituent present. Toxic components are typically from industrial or non-domestic sources. They may be an extreme pH or some anolyte that bacteria cannot metabolize. Toxicity is in reference to the bacteria. Since bacteria are the engine of the activated sludge plant, a "Toxic" sample is something that kills the bacteria and upsets the plant from the bottom up. Acute toxicity will cause periodic, extreme upsets in the plant while "chronic low level" toxicity will look like a slightly upset plant at all times. Either case requires investigation into collection system to locate a source of the toxic contributor. Eastex Environmental Lab has assisted districts and MUDs in determining these evaluations on the plant and in the collection system.

Source for this newsletter: Environmental Leverage



NEW LIMS in 2015!

We will be rolling out a new software program here at Eastex on January 1st! We are really excited about all the super cool geeky stuff it does that will help us take great care of our customers! Your reports are getting a make over with a fresh new look and we will have greater capacity to email final reports! The **Client Connect** will keep you informed with the latest results and field data! The new program also has extensive emailing capabilities, so make sure we have your email address! If you are unsure, just drop us a line at eastexlab@eastex.net with the subject line "New Lims" and we will put your info in the system. We are looking forward to serving you even better in 2015!

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Wow the year 2014 has just zoomed by. This is the last newsletter for the year 2014. I had lots of fun working on them. It takes teamwork and research to get the most accurate information to our readers. All of us here at Eastex Lab had something to do with the production of our newsletters, including our fabulous field techs who help take photos and distribute them. If you need to go back to the past newsletters, we have them on the website for you or you can call me and I will be happy to email or mail them to you. If you like to receive them via email, please send me an email at eastexlab@eastex.net. Here is a short recap on the left hand side of the page of all the newsletters in 2014. I hope you enjoy them as much as I do.

Merry Christmas and Happy New Year !
Ruth

Recap of 2014 Newsletters

February — Oil and Grease. We talked about what is O&G, grease trap compliance, O&G versus Total Petroleum Hydrocarbon.

April — Alkalinity and Chlorine Residual, Nitrification and alkalinity, How can alkalinity contribute to wastewater treatment plant problems.

June — In this newsletter we talked about micros and floc structure. Also remember the Flocabulary.

August — Summer wastewater treatment operational problems and odor control.

October — Not all foam is the same



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Mystery Bug Answer:

Branched Stalked Ciliate