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June 23, 2009

Myles Pagacz
City Superintendent
City of Longton
P.O. Box 18
Longton, Kansas 67352

Re: Water Treatment Plant Operations

Dear Myles;

I wish to thank Lotus, Sharon and you for the opportunity to visit and discuss treatment plant operations on June 22.

KDHE will be sending you sample bottles to sample for trihalomethanes at the treatment plant as we discussed. Two samples will be taken of the rapid mix water. One sample will be allowed 14 minutes of reaction time before filling the sample bottle that contains a chemical to stop the formation of trihalomethanes. The second sample will be taken just as the first sample but the reaction time before filling the sample bottle will be 18.5 minutes.

These two samples will give an indication of what trihalomethane levels will be if the plant operation is change as we discussed. Over the next few months, you and I will be preparing documents for KDHE to review a change in chlorination at the plant. It will be proposed to add chlorine only to the filter influent and add ammonia to the filter effluent line.

I will be preparing profiling and benchmarking the disinfection process for the proposed changes. These documents will be needed along with a permit application for the proposed changes.

Over the next few weeks, you should determine if the plant can be operated a 140 GPM rate using one filter. Also, you should lower the chlorination at the rapid mix and raise the chlorination at the filter influent. Your goal should be to maintain a 3.0 mg/l free chlorine residual or higher in the filter effluent line. This will probably require a 3.5 mg/l or higher residual on top of the filter. Also, during this time your goal should be to maintain a free chlorine residual in the range of 0.4 – 0.6 mg/l from the solids contact basin.

Funding for the above assistance was provided through a contractual arrangement between the Kansas Dept. of Health & Environment (State Revolving Loan Program set-aside) and KRWA. Also, visit the KRWA website www.krwa.net for news and information concerning water and wastewater utilities, training opportunities and other KRWA programs.

If you or the city council wishes to discuss any matters pertaining to the water supply system, please let me know.

Again, thanks for opportunity to meet with you.

Sincerely,

S. Patrick McCool, P.E.
KRWA Consultant

C: Mayor and City Council
Richard Thomas, KDHE