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June 8, 2009

Jim James
Water Treatment Plant Superintendent
City of Garnett
P.O. Box H
Garnett, Kansas 66032

Re: Water Treatment Plant Operations

Dear Jim;

I wish to thank you for the opportunity to visit and discuss plant operations on June 4. The main topic was the water discoloration and the resultant turbidity increase.

The plant tap turbidity has increased while the filters effluent turbidities have remained low. This is due to compounds of either iron or manganese or both. There was some success in reducing turbidity readings by adding chlorine on top of the filters instead of the bottom of the filters. However, this success was short lived.

It is believed that a longer free chlorine contact time is needed to ensure the complete oxidation of iron and manganese compounds. After the June stage 1 and stage 2 samplings for disinfection byproducts, the free chlorine addition will be moved to the rapid mix to determine if that will reduce the turbidity and discoloration of the plant tap water.

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.

Again, thanks for opportunity to meet with you.

Sincerely,

S. Patrick McCool, P.E.
KRWA Consultant

C: Earl Rucker, City of Garnett
Richard Thomas, KDHE, Chanute