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June 18, 2010

Earl Crosswhite
City of Ness City
PO Box 419
Ness City, KS 67560

Dear Earl,

It was a pleasure to meet with you to discuss the daily operations at the city.

DAILY CHLORINE RESIDUALS: The Kansas Department of Health and Environment requires that all public water supply systems maintain chlorine residuals in the water system at all times. The residuals must be kept between .2 and 4.0 mg/l on systems using free chlorine. Daily records of the residuals must be kept on file for public inspection for ten years. Your daily chlorine residuals have been averaging 1.2 mg/l.

ROUTINE BACTEROLOGICAL SAMPLING: KDHE requires that all public water supply systems in Kansas monitor the water for bacteria. Your system must collect two samples each month that are free from all bacteria or additional samples will be required to determine the source of the problem. These records must also be kept on file for public inspection. Your samples have been negative and the city has no monitoring violations at this time.

BACTEROLOGICAL SAMPLING SITE PLAN: You have prepared a new planned as we previously discussed.

CHLORINATION SYSTEM ISSUES: The water system is fairly complicated for a groundwater system with 17 wells from different sources, a clearwell blending system, high service pumps, and two elevated storage tanks. In addition you are now pressurizing a transmission line that wasn't pressurized in the past. There are additional control components just to maintain service to one pasture tap that only uses a very small amount of water for cattle during the winter.

SYSTEM DESIGN: We studied the system design and function of the various components and piping system. It is the intention that the pre-chlorination system at the clear well operate when the west and north wells are pumping. However we discovered the chlorination system to be operating continuously, even when the wells were not operating. We were able to trace the problem down to an electric solenoid valve that was not closing when the wells discontinued pumping. We cleaned and adjusted the valve and it appeared to be functioning properly.

RECORD KEEPING: As you know good records are essential for normal daily operations in your system. House of pump operation, gallons produced, chlorine usage, and daily chlorine residuals are all important. Through these records it is easy to determine that a pump or the chlorination system or control system is malfunctioning.

Please contact KRWA if you have any questions or if we can be of any assistance.

Sincerely,

Jon Steele
Circuit Rider

C: Vickie Wessel, KDHE