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June 8, 2010

Saul Jones
Lakeside Academy
24401 West MacArthur Rd.
Goddard, KS 67052

Dear Saul,

It was a pleasure to meet with you concerning the daily operations of the water system at the Academy.

DAILY CHLORINE RESIDUALS: The Kansas Department of Health and Environment require that all public water supply systems in Kansas maintain chlorine residuals in the water at all times. Your system residuals must be kept from .2-4.0-mg/l free chlorine. These residuals must also be recorded daily and kept on file for public inspection for ten years. Your daily residuals have been running 3-3.5 mg/l.

ROUTINE BACTERIOLOGICAL SAMPLING: KDHE also requires all public water supply systems in Kansas to collect routine bacteriological samples. Your system is required to collect two samples per month from various locations according to your sampling site plan. These samples must be free of any bacteria or additional samples must be collected to determine the source of the problem. Records of the test results must also be maintained on file for public inspection. Your samples have been negative and there are no monitoring violations at this time.

CHLORINATION PUMP PROBLEMS: You have been having chlorination pump problems with the system vapor locking. We discussed methods for correcting this using a flooded suction method on the pump. It is important to keep spare parts and a spare chlorinator on hand at all times to avoid loss of chlorine feed. It may also be necessary to use a different type of pump as we discussed to correct the problem.

PUMP RAPID CYCLING PROBLEM: The well pump seems to be short cycling; this can shorten the life of the pump. We adjusted the valve to the pressure switch; this seemed to eliminate. We discussed changing the point of chlorination and the pressure switch location. If the two were exchanged, the pressure tank would have chlorinated water. That is not the case; the pressure switch should be downstream of the pressure tank providing some cushioning effect from the water hammer on the pump start cycle.

Please call if KRWA can be of any other assistance.

Sincerely,

Jon Steele
Circuit Rider

C: Vickie Wessel, KDHE