Water Sample Exercise

Instructions: Read each scenario and answer the following;

- 1) What does the sample result tell you?
- 2) Are you in violation?
- 3) What action, if any, is required?
- 4) Is public notification required?
- 5) Any other things worth noting?

1) You're a brand new operator in a small public water system. It's your first week on the job and a routine metals sample returns all ND with the exception of sodium detected at 110,000mg/L.

2) Your asbestos sample returns with a detected amount of 8MFL.

3) Your system is required to take ten lead and copper samples yearly. The copper samples return results of ND, 0.063, ND, 0.089, 2.3, 1.2, ND, 1.7, 0.22, and 0.13 mg/L, and lead sample results of ND, 0.0054, ND, 0.0056, ND, 0.0058, ND, 0.0062, 0.014, and 0.018 mg/L.

High									Low

4) Your SOC results return all non-detect with the exception of Heptaclor 0.0030 ug/L and hexachlorobenzene 0.0084 ug/L.

5) Your coliform sample comes back present for total coliform and absent for e Coli.

6) Your Nitrate sample result comes back at a detected level of 15 mg/L.

7) You are required to take three routine coliform samples per month. You are at the last sampling location and you notice the sterile seal on the bottle is missing, and the lid is still in place, but it is loose. Aside from the normal questions asked above, what is your plan of action?

8) Today is January 1 and you realize you have forgotten to take your required yearly nitrate sample. Aside from the normal questions asked above, what is your plan of action?