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Disinfecting Storage Tanks

- Three methods commonly used:
 - Complete fill
 - Surface spray
 - Partial fill

AWWA Standard C652-92

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Disinfecting Storage Tanks

- Types of disinfectants:
 - Sodium Hypochlorite
 - Calcium Hypochlorite
 - Liquid Chlorine (e.g., Household Clorox/Non-scented)

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Disinfecting Storage Tanks

Method 1 - Complete Fill

- Storage tank is filled to overflow level with potable water and enough chlorine to result in a 10 mg/L residual (Uniform chlorine concentration)
- When gas is used, required contact time is 6 hours
- When hypochlorite is used, contact time is 24 hours
- Residual is reduced to 2 mg/L following contact time
- Coliform samples taken prior to placing tank in service

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Disinfecting Storage Tanks

Method 2 – Surface Spray

- All surfaces that may contact water are coated with a 200 mg/L chlorine solution.
- Minimum contact time is 30 minutes.
- Following contact time, tank is filled with potable water to the overflow pipe
- Coliform samples taken prior to placing tank in service

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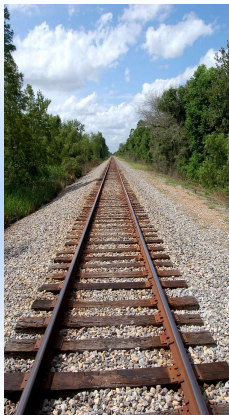
Disinfecting Storage Tanks

Method 3 – Partial Fill

- Fill storage tank to 5% of total capacity (Rule of thumb – 3ft.)
- Add enough chlorine to bring residual to 50 mg/L and hold for at least 6 hours
- Fill tank to overflow level with chlorinated water and hold for 24 hours
- Residual must be at least 2 mg/L after 24 hours
- Coliform samples taken prior to placing tank in service

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Thank you for your attendance!

Questions?

Everett Pringle
Yutu Water Emergency Team (WET)
U.S. EPA, Region 9
(670) 484-0037
pringle.everett@epa.gov