Water Main Disinfection and Bacteriological Sampling

| Location: | Portland Wate | er Rureau | 1000 N Inte | erctate Ave | Portland | $\cap \mathbb{R}$ |
|-----------|---------------|------------|---------------|-------------|-------------|-------------------|
| Location: | Portiana wat | er Bureau. | . 1900 N Inte | rstate Ave. | . Portiana. | . UK |

Date: TBD

Schedule: One hour class, no breaks

Format: PowerPoint presentation, lecture and handouts

Topics Covered:

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2.0 Disinfecting New Mains

20 min

- 2.1 Sanitary construction practices
- 2.2 Sequence of steps
- 2.3 Flushing
- 2.4 Addition of disinfectant continuous feed method
- 2.5 Chlorine measurement high range test
- 2.6 Record of disinfection
- 2.7 Determining when main can be put into service

3.0 Disinfecting Existing Mains

10 min

- 3.1 Mandatory Process (high contamination risk)
- 3.2 Normal process (low contamination risk)

4.0 Sampling and Testing for Presence of Bacteria

20 min

- 4.1 Coordination with lab (bottles, hold times)
- 4.2 Acceptable sample taps
- 4.3 Field measurements
 - 4.3.1 Chlorine residual potable range test
 - 4.3.2 Temperature
- 4.4 Sterile sampling method

Handouts provided:

- 1 Field process flow charts for new and existing main disinfections
- 2 Water Main Disinfection Record (field form)
- 3 Bacteriological Sampling Procedure