

NON-COMPLIANCE WITH REGULATORY REQUIREMENTS AND ACTIONS REQUIRED

This section provides a summary of all non-compliance with regulatory requirements identified during the inspection period, as well as actions required to address these issues. Further details pertaining to these items can be found in the body of the inspection report.

- 1 Existing parts of the distribution system that are taken out of service for inspection, repair or other activities that may lead to contamination, and all new parts of the distribution system that come in contact with drinking water, were not disinfected in accordance with Schedule B, Condition 2.3 of the Drinking Water Works Permit, or an equivalent procedure (i.e. the Watermain Disinfection Procedure).**

The Owner and Operating Authority are required to follow procedures for the disinfection of water system components as required by the current DWWP, section 2.3. For this inspection review, documents were requested and provided by the Owner for work performed in the distribution system. During the review of records, it was identified that there were maintenance activities undertaken in the water distribution system. There were a number of main breaks repair undertaken during this report period. The logsheet records indicate that most breaks were small holes in the watermain and the operator installed a sleeve on the watermain for the repair. Positive water pressure was maintained on the watermain and the area affected and parts used in the repair were disinfected with chlorine and the operator ensured that no contamination entered the watermain during the repair. There was one break where a section of pipe was replaced. Other activities included relocating a hydrant and a water meter installation.

There was a section of watermain that was extended. For this watermain installation, the Owner did provide bacteriological sample results and documentation regarding the disinfection procedure used that included log records for all work performed. Records reviewed included record of disinfection, sampling, hydrostatic pressure test, and backflow prevention device. The AWWA disinfection procedure requires the chlorination of the watermain for a 24 hour period and the chlorine residual is to be tested at the beginning and end of the disinfection procedure. There is a minimum chlorine residual to be achieved at the beginning and end of the 24 hour disinfection process (25.0 mg/L and 10.0 mg/L). Log records provided indicate that the chlorine residual required for the disinfection process was not met. All other items were in compliance with the disinfection procedure. All sample results were negative for bacteriological parameters.

Action(s) Required:

The Owner shall ensure that the AWWA disinfection procedures outlined in the current Drinking Water Works Permit, Schedule B, section 2.0, subsection 2.3 are undertaken as required for water system components. In particular, the disinfection process shall be followed as outlined in AWWA Standard C651-14 - Disinfecting Water Mains. Compliance with this requirement shall be verified during the next physical inspection.

SUMMARY OF RECOMMENDATIONS AND BEST PRACTICE ISSUES

This section provides a summary of all recommendations and best practice issues identified during the inspection period. Details pertaining to these items can be found in the body of the inspection report. In the interest of continuous improvement in the interim, it is recommended that owners and operators develop an awareness of the following issues and consider measures to address them.

Not Applicable