

Internal Checklist

Watermain Additions, Modifications, Replacements and Extensions

| Item | Description | Yes | No |
|------------|---|-----|----|
| 3.1 | The drinking water system may be altered by adding, modifying, replacing or extending a watermain within the distribution system subject to the following conditions: | | |
| 3.1.1 | The design of the watermain addition, modification, replacement or extension: | | |
| a) | Has been prepared by a Professional Engineer; | ✓ | |
| b) | Has been designed only to transmit water and has not been designed to treat water; | ✓ | |
| c) | Satisfies the design criteria set out in the Ministry of the Environment publication "Watermain Design Criteria for Future Alterations Authorized under a Drinking Water Works Permit – March 2009", as amended from time to time; | ✓ | |
| AND | | | |
| d) | Is consistent with or otherwise addresses, the design objectives contained within the Ministry of the Environment publication "Design Guidelines for Drinking Water Systems, 2008", as amended from time to time. | ✓ | |
| 3.1.2 | The maximum demand for water exerted by consumers who are serviced by the addition, modification, replacement or extension of the watermain will not result in an exceedance of the rated capacity of a treatment subsystem or the maximum flow rate for a treatment subsystem component as specified in the licence, or the creation of adverse conditions within the drinking water system. | ✓ | |
| 3.1.3 | The watermain addition, modification, replacement or extension will not adversely affect the distribution system's ability to maintain a minimum pressure of 140 kPa at ground level at all points in the distribution system under maximum day demand plus fire flow conditions. | ✓ | |
| 3.1.4 | Secondary disinfection will be provided to water within the added, modified, replaced or extended watermain to meet the requirements of O. Reg. 170/03. | ✓ | |

| Item | Description | Yes | No |
|-------|---|-----|----|
| 3.1.5 | The watermain addition, modification, replacement or extension is wholly located within the municipal boundary over which the owner has jurisdiction. | ✓ | |
| 3.1.6 | The owner of the drinking water system consents to the watermain addition, modification, replacement or extension. | ✓ | |
| 3.1.7 | <p>A Professional Engineer has verified in writing that the watermain addition, modification, replacement or extension meets the requirements of condition 3.1.1.</p> <p>Name: _____.</p> <p>PEO Licence No. _____.</p> | ✓ | |
| 3.1.8 | <p>The owner of the drinking water system has verified in writing that the watermain addition, modification, replacement or extension meets the requirements of conditions 3.1.2 to 3.1.6.</p> <p>Reviewed by: _____.</p> <p>Date: _____.</p> <p>Signature: _____.</p> <p>And recommended for approval.</p> <p>Approved by: _____.</p> <p>Date: _____.</p> <p>Signature: _____.</p> | ✓ | |
| 3.2 | The authorization for the addition, modification, replacement or extension of a watermain provided for in condition 3.1 does not include the addition, modification, replacement or extension of a watermain that: | | |
| 3.2.1 | Passes under or through a body of surface water, unless trenchless construction methods are used; | ✓ | |
| 3.2.2 | Has a nominal diameter not greater than 900 mm; | ✓ | |

| 3.2.3 | Connects to another drinking water system; | ✓ | |
|-----------|---|-----|----|
| OR | | | |
| Item | Description | Yes | No |
| 3.2.4 | Results in the fragmentation of the drinking water system. | ✓ | |
| 3.3 | The verifications required in conditions 3.1.7 and 3.1.8 shall be: | | |
| 3.3.1 | Recorded on "Form 1 – Record of Watermains Authorized as a Future Alteration" as published by the Ministry of the Environment; | ✓ | |
| 3.3.2 | Retained for a period of ten (10) years by the owner. | ✓ | |
| 3.4 | For greater certainty, the verification requirements set out in condition 3.3 do not apply to any addition, modification, replacement or extension in respect of the drinking water system which: | | |
| 3.4.1 | Is exempt from subsection 31(1) of the SDWA by subsection 9.(2) of O. Reg. 170/03 | | ✓ |
| OR | | | |
| 3.4.2 | Constitutes maintenance or repair of the drinking water system. | | ✓ |
| 3.5 | <p>The document or file referenced in Column 1 of Table 1 of Schedule A of this drinking water works permit that sets out watermains shall be retained by the owner and shall be updated to include watermain additions, modifications, replacements and extensions within 12 months of the addition, modification, replacement or extension.</p> <p>Forwarded to: _____.</p> <p>On: _____.</p> <p>Completed on: _____.</p> | | |
| 3.6 | The updates required by condition 3.5 shall include watermain location relative to named streets or easements and watermain diameter. | | |