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MTE Consultants

123 St. George St., London, Ontario N6A 3A1

Edgevalley Phase 2

Water Distribution Analysis

Report Date: January 24, 2024

MTE File No.: 42024-124

CONCLUSIONS AND RECOMMENDATIONS

Based on the preliminary water distribution analysis, the following conclusions and recommendations are provided:

1. Connections to the proposed City's watermains will adequately service the proposed water distribution network for the proposed Edgevalley Phase 2 Subdivision. It is expected that the future 400mm diameter watermain extension will be undertaken within the next year prior to servicing of the Subject Lands.
2. The proposed water distribution network will provide system pressures within the respective pressure guidelines and will not require pressure reducing valves.
3. Water model results indicate that the proposed water distribution system will adequately provide the recommended fire flows at the minimum MECP pressure of 140kPa.
4. Pipe velocities were less than the City's allowable maximum of 1.5m/s for all domestic scenarios. Under fire flow conditions minor exceedances of the City's maximum criteria of 2.4m/s were modelled however these exceedances are not considered significant.
5. It is recommended that flushing be completed in accordance with the recommended flushing volumes and locations noted herein during buildout of the subdivision. Under full buildout condition there will be sufficient demand to provide quality turnover for the site.

All of which is respectfully submitted,

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