

Alae El Hatimi

From: Rathnasooriya, Shika <Thakshika.Rathnasooriya@ottawa.ca>
Sent: Tuesday, May 23, 2023 2:25 PM
To: Alae El Hatimi
Subject: RE: 23-172_1274 Marygrove Circle_Adequacy report
Attachments: 1274 Marygrove Circle May 2023.pdf

Hi Alae,

Please see boundary conditions below. As the required fire flow cannot be achieved, a multi-hydrant analysis will be required.

The following are boundary conditions, HGL, for hydraulic analysis at 1274 Marygrove Circle (zone 2W2C) with assumed to be connected to the 152 mm watermain on Marygrove Circle (see attached PDF for location).

All Connections:

Minimum HGL: 126.7 m

Maximum HGL: 133.0 m

Available fire flow at 20 psi: 48 L/s, assuming ground elevation of 93.5 m

These are for current conditions and are based on computer model simulation.

Disclaimer: The boundary condition information is based on current operation of the city water distribution system. The computer model simulation is based on the best information available at the time. The operation of the water distribution system can change on a regular basis, resulting in a variation in boundary conditions. The physical properties of watermains deteriorate over time, as such must be assumed in the absence of actual field test data. The variation in physical watermain properties can therefore alter the results of the computer model simulation.

Regards,

Shika Rathnasooriya, P.Eng

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From: Alae El Hatimi <alae@blengineering.ca>
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