



**S. LLEWELLYN & ASSOCIATES LIMITED**  
CONSULTING ENGINEERS

September 27, 2017

File: 17086

City of Hamilton  
71 Main St. West  
Hamilton, Ontario  
L8P 4Y5

**RE: Wastewater Generation Assessment**  
**154 Main Street East**  
**City of Hamilton**

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The proposed development consists of constructing a 25-storey mixed-use condominium building. Refer to the Site Plan prepared by WZMH Architects for details.

Wastewater generation for the site was calculated based on Table 8.2.1.3.A – Residential Occupancies and Table 8.2.1.3.B – Other Occupancies of the 2012 Ontario Plumbing Code. See Table 1 below for calculations.

<b>Table 1 – Wastewater Generation Calculation</b>	
Occupancy Type:	
One-Bedroom Units (2 Persons)	275 l/person/unit/day x 2 persons x 216 units <b>= 118,800 l/day.</b>
Two-Bedroom Units (3 Persons)	275 l/person/unit/day x 3 persons x 41 units <b>= 33,825 l/day.</b>
Three-Bedroom Units (4 persons)	275 l/person/unit/day x 4 persons x 10 units <b>= 11,000 l/day.</b>
Retail/Commercial/Storage Space (per 9.3m <sup>2</sup> of floor space)	878m <sup>2</sup> / 9.3m <sup>2</sup> x 75 l/day = <b>7,081 l/day.</b>
Party Rooms/Lounge (Assembly Hall)	8 l/seat/day x 45 seats = <b>360 l/day.</b>
Cinema (Movie theatre per seat)	15 l/seat/day x 20 seats = <b>300 l/day.</b>
Coffee Bar (Donut shop per seat)	400 l/seat/day x 3 seats = <b>1200 l/day.</b>
<b>Waste Generated (l/day):</b>	<b>172,566</b>
<b>Total Wastewater Estimate (l/s):</b>	<b>2.00</b>

We trust that the information provided addresses the City of Hamilton requirements.

Prepared by:

**S.LLEWELLYN & ASSOCIATES LIMITED**



M.Colosimo, Dipl. T.



S.Frankovich, P.Eng.