Josselyn Engineering Inc.

September 9, 2025

Shoalts and Zaback Architects

Attn: Ray Zaback

Re: 21 Hill Street Picton
Our File No. 1682

Dear Sir,

I have reviewed the proposed construction with respect to increased sanitary sewage generation. I understand that an addition is proposed that will generally serve as a secondary suite to the main dwelling.

For the purpose of estimating sanitary sewage flow, I would estimate 3 persons per single family dwelling and would estimate 2 persons per secondary suite.

Using Ministry of Environment Conservation and Parks (MECP) design criteria, peak and average sanitary generation is estimated as shown below, for the existing and proposed conditions.

Calculation of sanitary sewage flow

Domestic flow				Infiltration			total		
total population	Harmon factor (maximum = 4.0)	per capita flow (l/cap. Day)	Peak domestic flow (l/s)	Total Area (ha)	Infiltration rate (l/ha. s)	Infiltration flow (l/s)	total peak flow (l/s)	average daily flow (m3)	Average monthly flow (m3)
3.0	4.00	350	0.049	0.06	0.28	0.02	0.065	1.05	31.5
5.0	4.00	350	0.081	0.06	0.28	0.02	0.098	1.75	52.5
Incremental							0.032	0.70	

Incremental peak flow is estimated as 0.032 l/sec, and incremental average daily flow is estimated as 0.7 m3.

The capacity of a 4" sanitary service is sufficient for the expected peak flow including the addition.

Yours very truly,

LICENSED PROFESSIONAL ENGINEER
J. M. JOSSELYN
2025/09/09
PROVINCE OF ONTARIO

Murray Josselyn, P. Eng.

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