



Jp2g No. 19-5031B

August 29, 2024

Village of Merrickville-Wolford
317 Brock Street West,
P.O. Box 340, Merrickville, Ontario, K0G 1N0

Attention: Darlene Plumley, CAO

Re: Sewage Capacity Allocation: 114 Lewis Street West Development Proposal

Dear Darlene:

We have calculated the average daily sewage flow for a proposed 6-plex at 114 Lewis St West, based on the current apartment unit split between one and two bedroom units (confirmed by applicant) and compared the results against the 2023 calculated flows.

	Apartment Unit Type		Commercial	Design Population (persons)
	1 Bedroom / Bachelor Apartment Units (1.4 persons per unit) Units	2 Bedroom / Bachelor Apartment Units (2.1 persons per unit) 4 Units	(0 units)	
114 Lewis St West	2.8	8.4	0	11.2
Total Design Population				11.2

The above allowances of 1.4 persons per 1-bedroom and 2.1 per 2-bedroom apartment, and 75L/d/person per City of Ottawa Sewer Design Guidelines.

The average daily sewage flow is calculated as follows: for residential – 11.2 persons x 350 L/p/d x 1 m3/1000L = 3.92 m3/d. Total flow is 3.92 m3/d.

This vacant lot would have been allocated as 1 connection under the Village’s historic committed capacity (for vacant infill lots and approved developments). The current 2023 calculated per connection flow is 1.34m3/day. Therefore, the additional requested capacity is 2.58m3/day.

The net difference of 2.58m3/d represents approximately 2 additional connections, for a total of 3 connections, which could be accommodated within the system design should Council wish to allocate additional sewer resources to this project. This is based on the per connection flow rate of 1.34 m3/connection/day calculated using the updated 5-year average daily flow between 2019 and 2023 of 531.4 m3/d.

Sincerely,

Jp2g Consultants Inc.
ENGINEERS • PLANNERS • PROJECT MANAGERS

Senior Planner

Cc Neil Caldwell, P.Eng. PMP, CEO