



Hamilton

Building Division

Reviewed for Ontario Building Code Compliance.

Subject to Corrections Noted on Plans and Field Inspections.

Permit: 21 104287 000 00 SS

Date: 05/19/21

Name: Laurie Smith

Approved by: [Signature]

DESIGN CALCULATIONS FOR CLASS 2, 4 & 5 ON-SITE SEWAGE SYSTEM

Owner: ERU + SANDY SKREEN Designer: [Signature] 11907 Installer: [Signature] BCIN Number: 16869

STEP 1

DAILY SEWAGE FLOW (Based on Hydraulic Loads for Fixtures, Floor Area, and Number of Bedrooms)

Plumbing Fixture Description	Existing Number of Fixtures	Proposed Number of Fixtures	Total x Fixture Units Value = Number of Fixture Units	
Bathroom group (toilet, sink, bathtub)	2	1	6	12
Toilet (alone)			4	
Washbasin		2	1.5	3
Bathtub or Shower			1.5	
Kitchen Sink(s)	1		1.5	1.5
Bar Sink			1.5	
Dishwasher	1		1.5	1.5
Washing Machine		1	1.5	1.5
Bidet		1	1.5	1.5
Laundry Tub		1	1.5	1.5
Other:			1.5	1.5
Total Fixture Units				23

Proposed: (75 m²)
() ft²
Existing: (213.07 m²)
() ft²
Total Finished Floor Area Excluding Area of Finished Basement
288.07 m²
(Multiply m² x 10.764 = ft²)

From the chart below, please calculate the expected daily sewage flow for your proposed building, and mark the total in the space provided. For non-residential occupancies see Table 8.2.1.3 B O.B.C.

Residential Occupancy	Existing	Proposed	Q in Litres	Calculations
1 Bedroom			750	
2 Bedrooms			1100	
3 Bedrooms			1600	
4 Bedrooms	1600		2000	
5 Bedrooms		2000 ✓	2500	2000
Additional Flow for:				
Each Bedroom over 5			500	
Floor Space for each 10m ² over 200 m ² up to 400 m ²			100	800
Floor Space for each 10m ² over 400 m ² up to 600 m ²			75	
Floor Space for each 10m ² over 600 m ² OR*			50	
Each fixture unit over 20 fixture units total			50	
TOTAL	3			150

*NOTE: Where you need to do multiple calculations, signified by the "OR" in the table, do the calculation for daily sewage flow based on bedrooms and floor space first, then fixture units, and use the larger of the two calculations.

Other Occupancy (Table 8.2.1.3 (B))	Occupant Load	Volume (Litres)	Calculations
Establishment Type:			

EXPECTED DAILY DESIGN SEWAGE FLOW (Q): 2880 ✓ Litres (Use Q for the following calculations)