

Schedule 2A: Sewage System Information

A. Proposed Sewage System

IS FOR: <input checked="" type="checkbox"/> Residential Use <input type="checkbox"/> Commercial Use	INSTALLATION IS: <input checked="" type="checkbox"/> New <input type="checkbox"/> Replacement <input type="checkbox"/> Alteration <input type="checkbox"/> Repair
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Test Holes are required for all new or replacement Class 4 septic system applications; minimum size to be 3 feet (.9 meters) wide and 6 feet (1.8 meters) deep. Must be stepped or sloped.	DUG END OF APRIL 2026 Are Test Holes ready? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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B. Type of Proposed Sewage System

Class 2 – Leaching Pit **NOTE:** Class 2, 3 & 5 sewage systems have limited or restricted uses.
 Class 3 – Cesspool
 Class 4 – Sewage System
 Class 5 – Holding Tank

C. Design Flow Calculations – Dwellings (separate calculations required for non-residential structures)

Record number of plumbing fixtures (include rough-in plumbing (eg. for future basement bathroom)):					
Description of Fixture	Number of New/Proposed Fixtures		Fixture Units		Fixture Unit Count
Dishwasher	1	X	1.5	=	1.5
Garbage Grinder		X	3	=	
Hot Tub / Spa		X	1.5	=	
Kitchen Sink	1	X	1.5	=	1.5
Laundry tub	1	X	1.5	=	1.5
Toilet		X	4	=	
Tub / Shower (1 head)		X	1.5	=	
Wash Basin		X	1.5	=	
Washing Machine	1	X	1.5	=	1.5
Bathroom Group	2	X	6	=	12
Other – please specify: _____		X		=	
TOTAL FIXTURE UNITS:					18
TOTAL FIXTURE UNITS OVER 20:					0

Additional Appliances: <input type="checkbox"/> Water Softener <input type="checkbox"/> Water Filter	→ <input type="checkbox"/> Does it backwash into Septic? → <input type="checkbox"/> Does it backwash into Septic?
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Record finished floor area (in square meters) for the following:					
1 st Floor	2 nd Floor	3 rd Floor	Loft	Other – please specify:	TOTAL
69	139				208

Record number of separate dwelling units: 0

Schedule 2A: Sewage System Installer Information Cont'd

D. Design Flow Calculations for Dwellings (separate calculation required for non-residential structures)

Where: A = Bedroom Flow (1-5 bedrooms)
 B = Bedroom Flow (*over* 5 bedrooms)
 C = Living Area Flow
 D = Fixtures Units *over* 50

Bedroom Flow (A)	Select Number of Bedrooms		Volume (Litres)		Total Flow	
	<input type="checkbox"/>	1 Bedroom		750	=	
	<input checked="" type="checkbox"/>	2 Bedrooms		1100	=	1100
	<input type="checkbox"/>	3 Bedrooms		1600	=	
	<input type="checkbox"/>	4 Bedrooms		2000	=	
	<input type="checkbox"/>	5 Bedrooms		2500	=	
TOTAL (A)						1100
Bedroom Flow (B)	> 5 Bedrooms		Number of Bedrooms > 5		Volume (Litres)	
	<input type="checkbox"/> Yes <input type="checkbox"/> No	0 _____	X	500 (each)	=	
	TOTAL (B)					
Living Area Flow (C)	Size of Living Area	# of increments of 10m ² over living area	Volume (Litres)		Total Flow	
	<input type="checkbox"/> 0 – 200 M2		X	0	=	
	<input checked="" type="checkbox"/> 201 – 400 M2	1	X	100	=	100
	<input type="checkbox"/> 401 – 600 M2		X	75	=	
	<input type="checkbox"/> >600 M2		X	50	=	
TOTAL (C)						100
Fixture Units (D)	Number of Fixture Units over 20 (from pg. 5)		=	0	X	50 L/Fixture Unit
	TOTAL (D)					

E. Design Flow (Number of Litres per day)

Q = A + (the highest of) B or C or D

$$Q = \frac{1100}{A} + \frac{100}{(B \text{ or } C \text{ or } D)}$$

$$Q = 1200 \text{ Litres per day}$$

F. Septic Tank Size (Working Capacity) for Class 4 System

Existing Replacement

<input type="checkbox"/> Residential (3600L) Minimum	2 X Q	Proposed / Existing Working Capacity 3600 _____ Litres
<input type="checkbox"/> Non-Residential (3600L) Minimum	3 X Q	

G. Other Treatment Unit

Tertiary Secondary

Manufacturer	Model	BMEC (attach to Application)

Schedule 2B: Soil Design Criteria and Site Evaluation

A. Percolation Rate of Design Soil (T)					
Percolation Rate of Design Soil		Percolation Rate of Mantle Sand		SEE: <input type="checkbox"/> Laboratory Analysis <input type="checkbox"/> Lab Report Attached	
T = <u>FILTER SAND - 8</u> min/cm		T = <u>12</u> min/cm			
Soil is: <input type="checkbox"/> Native <input checked="" type="checkbox"/> Imported		Soil is: <input checked="" type="checkbox"/> Native <input type="checkbox"/> Imported			
NOTE: The Town of Midland will require documentation by a certified soil technician on proposed imported soils to confirm the percolation rate ("T"-time), or the suitability of filter sand or imported fill.					
B. Percolation Rate and Classification of Native Soil					
<input type="checkbox"/> Laboratory Analysis (report attached) <input type="checkbox"/> Test of Site (test hole) <input type="checkbox"/> Estimated (Unified System)					
Test Hole #1			Test Hole #2		
Soil Description	Depth (in meters)	Township Confirmation	Soil Description	Depth (in meters)	Township Confirmation
eg. Topsoil	0m - .3m		eg. Topsoil	0m - .3m	
6" TOPSOIL			12" TOPSOIL		
36" SAND			12" SAND		
Depth to groundwater (or T > 50 min/cm):		1.06	Depth to groundwater (or T > 50 min/cm):		0.6
Notes:			LOWER LYING AREA AT FRONT OF LOT		
ESTIMATED PERCOLATION RATE OF NATIVE SOIL (for example only)					
Check	T-time (in min/cm)	Visual Appearance	Soil Type (Unified Soil Classification System)		
<input type="checkbox"/>	4 – 12	Silty gravels, Gravel-sand-silt	GM – Permeable to medium permeable, depending on amount of		
<input type="checkbox"/>	12 – 50	Clayey gravel, gravel-sand-clay mixtures	GC – Important to estimate amount of silt and clay		
<input type="checkbox"/>	2 – 12	Gravel, sand mix, minimal fine	SW – Medium permeability		
<input type="checkbox"/>	2 – 8	Gravelly sand, uniform, minimal fine	SP – Medium permeability		
<input checked="" type="checkbox"/>	8 – 20	Silty sand / loam mix	SM – Medium to low permeability		
<input type="checkbox"/>	12 – 50	Clayey sand / silty loam mix	SC – Medium to low permeability depending on amount of clay		
<input type="checkbox"/>	20 - 50	Inorganic silts / clayey silts	ML – Medium to low permeability		
NOTE: Filter bed can only be installed in the ground when "T" time of native soil does not exceed 15 min/cm. 8.7.4.2.(2)					
C. Water Supply for Lot					
<input type="checkbox"/> Is existing <input checked="" type="checkbox"/> Proposed to be: <input checked="" type="checkbox"/> Drilled Well <input type="checkbox"/> Dug Well <input type="checkbox"/> Other, please specify: _____					
Are other wells located within 30m of proposed septic tank / distribution pipe?			<input type="checkbox"/> Yes – if yes, be sure to include on Site Plan <input checked="" type="checkbox"/> No		

Schedule 2C: Class 4 Sewage System Calculations Cont'd

C. Loading Rate (fill area) From Table 8.7.4.1A of the Building Code (if applicable)

**LOADING RATE (LR) FOR:
FILL-BASED / ABSORPTION TRENCHES AND FILTER BEDS**

	Percolation Time of Soil (T) min / cm	Loading Rate (LR) (L/m ²) / per day
<input checked="" type="checkbox"/>	Between 1 – 20	10
<input type="checkbox"/>	Between 20 – 35	8
<input type="checkbox"/>	Between 35 – 50	6
<input type="checkbox"/>	Greater than 50	4

Loading Area (in m²) = Q / LR

LR = 120 m² **NATURALLY OCCURRING**

A Dose Pump is required if total distribution pipe is 150m or more.

Dose Pump required? Yes No

L = total length of distribution pipe in the leaching bed

V = effluent volume (in litres) pumped

3" diameter distribution pipe V = 3.3 x L = _____

4" diameter distribution pipe V = 5.9 x L = _____

D. Site Plan

PROVIDE THE FOLLOWING INFORMATION:

- Locate and show horizontal distance from sewage system to all proposed or existing structures, driveway, property lines, swimming pools
- Locate and show clearance to all wells (including those on adjacent properties)
- Water sources (eg. lakes, rivers etc.)
- Swales, slopes and changes in grade
- North (facing) arrow
- Tank and pump chamber sizes (in litres)
- Base, contact and loading areas (in square metres)
- Length of distribution pipe (in metres)

Please use the attached template.