

BUILDING PERMIT APPLICATION – ONSITE SEWAGE SYSTEM

SCHEDULE 3A – SOIL & WATER TABLE INFORMATION

(Minimum depth of test pit: 1 metre)

DATE : _____ TEST PIT - Sub-surface conditions encountered

		APPLICANT'S USE		INSPECTOR'S USE	
Existing grade	Depth (m)	Soil Type	"T" Time	Soil Type	"T" Time
Rock & G.W.T.	- 0 -				
	- 0.25 -				
	- 0.50 -				
	- 0.75 -				
	- 1.00 -				
	- 1.25 -				
	- 1.50 -				

LEGEND: (Elevations based on existing grade) (Note: proposed revised grades must be noted on site plan and cross-section)

BR – bedrock or impervious soil (min. 0.9 metres to bottom of stone)	m – metres
GWT- ground water table	EG – existing grade Note proposed grade (PG) if applicable
HGWT – high ground water table (min. 0.9 metres to bottom of stone)	"T" – percolation rate (min/cm)

SEWAGE SYSTEM DESIGN CRITERIA (Based on above details):

Sewage System minimum raised height above grade	1.5m -- GWT or bedrock depth = Minimum raised height of bed
	1.5m -- _____ = _____ (raised height of system)

WATER SUPPLY (PROPOSED OR EXISTING):

Municipal		Dug Well		Drilled Well		Shallow or Sand Pt.		Other		Specify:
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INSPECTORS REPORT:

Date of Inspection: _____ day/month/year	LEACHING BED DESIGN CRITERIA Depth to rock/impervious soil 1.5 - _____ (Bedrock/Clay) = _____ metres
a.m. p.m.	Design HGWT 1.5M – _____ (HGWT encountered) = _____ metres
Weather	Site to be scarified yes no
Representing Owner:	Sub-grade inspection yes no
Design "T" _____ min/cm	Mantle yes no
Percolation test required yes no	Inspected and Recommended by:
Grain size analysis required yes no (if yes, see addendum)	

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SCHEDULE 3B- DESIGN CRITERIA

PLUMBING SPECIFICATIONS – FOR ALL BUILDINGS TO BE SERVICED BY THE PROPOSED SEWAGE SYSTEM

DESCRIPTION	#UNIT PER FIXTURE	DWELLING #1		SLEEPING CABIN (BUNKIE)		OTHER (Specify)		OTHER (Specify)	
		EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
Toilet	4								
Wash Basin (Sink)	1								
Bathtub or Shower	1.5								
Shower Stall	1.5								
Bathroom Group (3 Piece)	6								
Kitchen Sink (Single or Double)	1.5								
Bar Sink	1								
Washing Machine	1.5								
Other (specify)									
Garbage Grinder Y / N * See Note									
TOTAL FIXTURE UNITS									
FINISHED FLOOR AREA									
# OF BEDROOMS 2 persons/bdrm									
# OF ADDITIONAL PEOPLE PROPOSED **									

*** NOTE: GARBAGE GRINDER – 2.5 x DAILY FLOW FOR SEPTIC TANK SIZING***
**** Identify # of persons more than 2 persons/bedroom proposed. An additional flow rate of 250 L/day will be assigned to each additional person****

	TOTALS		Calculated Flow Rate (see Design Flow Chart Appendix A)	
# Bedrooms	_____	→	_____ L/day	(see associated flow rate in Appendix A)
# Fixture Units (FU)	_____	→	_____ L/day	(50L/FU >20 FU see Appendix A)
Floor Area	_____	→	_____ L/day	(100 L./10 m²>200 m² see Appendix A)

Total Daily Sewage Flow Q = _____ L/day
[bedroom flow rate (up to 2,500L/day) + highest calculated rate] (Flow to be used for design Schedule 3C)

PROPOSAL TO CONSTRUCT SEWAGE SYSTEM

Class 2 Leaching Pit -- see handout (200 L./fixture unit (pressurized) cannot exceed 1,000 L./day)
 Side wall Loading rate (litres/day /sq.m.) = 400/T Lr = 400/_____ = _____sq. m. of sidewall
 Design details: _____

Class 4 Sewage System - septic tank and or leaching bed (filter or trench bed see Schedule 4C (next page))

Tertiary Treatment Unit – BMEC approval & Literature (specs for unit) must be submitted with application
 Make/model _____ Flow Rate _____ L./day Alarm _____ (mech. systems)
 Raised Height _____ metres. Stone Area _____ m² Sand Area _____ m²

Class 5 Holding Tank – Requirements: Audio/Visual Alarm & 3” venting
 Q = _____ x 7 = _____ L Tank Size Proposed _____ L

Pump Out Contract (sewage haulage agreement) _____ (approval and contract required prior to submission)

**BUILDING PERMIT APPLICATION – ONSITE SEWAGE SYSTEM
SCHEDULE 3C – PROPOSAL TO CONSTRUCT CLASS 4 SEWAGE SYSTEM**

Septic Tank Use Existing **New CSA Standard** **(Q x 3 if non-residential use)**

Residential Occupancy **Q** _____ X 2 = _____ litres
Residential with Garburator **Q** _____ X 2.5 = _____ litres

Proposed Working Capacity _____ litres (min. 3600L)

Treatment Unit (specify) _____ **Operating Capacity** _____ litres/day

Class 4F Filter Bed

If Q is 3000 litres or less $Q = \text{_____} \div 75 = \text{_____}$ Sq. Metres
If Q is more than 3000 litres $Q = \text{_____} \div 50 = \text{_____}$ Sq. M. $\div 2$ beds of _____ Sq. M.
If Treatment Unit $Q = \text{_____} \div 100 = \text{_____}$ Sq. Metres
Extended Contact Area (Base of Filter) $\frac{Q \times T}{850} = \frac{\text{_____} \times \text{_____}}{850} = \text{_____}$ Sq. Metre Contact

PROPOSAL: # of Beds _____ **Filter Bed Area** _____ m² **Contact Area** _____ m² **Raised height** _____ m.

Class 4 Trench Bed Absorption trench (* $\div 300$ if treatment unit)

T-time (percolation rate of soil used for calculation.) Native Imported Raised height _____ m.
 $Q \times T \div 200^* = \text{_____} \times \text{_____} \div 200^* = \text{_____}$ m. \div no. of runs _____ = _____ m. per run

Class 4 Loading Rates - Area requirements **LOADING AREA – EXISTING** _____ **PROPOSED** _____
(Native T<15) (Imported T>15)

Percolation Time of Existing (in-situ) Soils
If "T" is : 1 < 20..... Use: $\frac{Q}{10} = \frac{\text{_____}}{10} = \text{_____}$ m²
If "T" is : 20 -- 35..... Use: $\frac{Q}{8} = \frac{\text{_____}}{8} = \text{_____}$ m²
If "T" is : 35 -- 50..... Use: $\frac{Q}{6} = \frac{\text{_____}}{6} = \text{_____}$ m²
If "T" is : > 50..... Use: $\frac{Q}{4} = \frac{\text{_____}}{4} = \text{_____}$ m²

OFFICE USE ONLY

SEWAGE SYSTEM PERMIT FEES	
New Sewage system	\$450.00
New Septic Tank	\$200.00
Leaching Bed Replacement	\$250.00
Sewage system Repair	\$250.00
Leaching/Grey Water Pit	\$250.00
Compliance inspection/report	\$250.00

PERMIT FEE	\$
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Fee paid	\$	<u>Receipt#</u>
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